

PROF. DR. SAIRA RIAZ

(Brief Résumé)

Major Achievements:

- 1st position in District Okara in S.S.C. Examination
- President Scholarship holder in S.S.C. & F.Sc.
- 1st position in A.I.O.U. in P.G.D. (Computer Science)
- 1st position in M.Phil. Solid State Physics, PhD Solid State Physics
- International Research Support Initiative (IRSI) Scholarship from HEC, Pakistan, 2006
- Assist. Prof. (2008), Assist. Prof. TTS (2009), Tenured Associate Prof. (2015), Tenured Professor (2021)
- Post-doc Fellowship (Spintronics & Nanodevices) University of York, UK, funded by NCNST, Pakistan, 2008
- Post-doc Fellowship, State Key Laboratory of Magnetism, Chinese Academy of Sciences, Beijing, China, 2015

Offices Held:

- *Director*, COE in SSP, Punjab University, Lahore (Sep 2018-date)
- *Student Advisor* COE in SSP, Punjab University, Lahore (2009-2018)
- *Network Administrator*, COE in SSP, Punjab University, Lahore (2004-2009)
- *Member, Board of Studies*, Lahore College for Women University, (LCWU), 2017-date
- *Member, DTRC, Centre for High Energy Physics, Punjab University, 2019-date*
- *Member, DTRC, Department of Physics, Govt. College for Women University, Sialkot, 2020-date*
- *Member, Board of Faculty*, Khawaja Fareed University of Engineering and Technology, 2018-date
- *Controller of Examination*, Microelectronics Research Centre (MERC)
- *Member*, Selection Committee, *Member*, Tender and Purchase Committee, CSSP, MERC
- Established Nanoelectronics – Chemistry-Research (NCR) Group in Collaboration with LCWU, Lahore
- *External Examiner*, M.Sc., M.Phil., PhD, Exams
- *Honorary Judge*, National Science Olympiad held under the auspices of MOE & INTEL
- *Honorary Judge*, National Science Exhibition, MOE, Beaconhouse School System
- *Editor*, Solid State Physics Newsletter - *Editor* (G) Nanomaterials - *Associate Editor* Frontiers in elect. Mat
- *Editor* (G) Materials Today: Proceedings, Conference Secretary (ICSSP'13, ICSSP'15, ICSSP'17, ICSSP'19)
- Recognized Reviewer, International ISI indexed Impact Factor Journals

Professional Experience:

- Visiting Researcher, State Key Laboratory of Magnetism, Chinese Academy of Sciences, Beijing, China 2006, 2007, 2009
- Post-doc Fellowship, Spintronics and Nanodevices Lab, Depart. Electronics, University of York, Heslington, York, UK 2008
- Post-doc Fellowship, Spintronics- Materials and Devices, Institute of Physics, CAS, Beijing, China, 2015

Experimental Capabilities: Can Handle and Supervise

- Sol Gel based synthesis / projects - Preparation Equipment based on Vacuum
- Optical Lithography Systems - Microscopy (Optical, Electron)
- Elemental, Magnetic & Structural Properties (Mass Spectrometry, VSM, XRD)

Courses Formulated and Taught at M. Phil. Level:

- Semiconductor Physics - Spintronics – Theory & Devices
- Semiconductor Nanostructures & Optoelectronic Devices - Characterization of Nanostructures
- Lithography Lab -Physical Fabrication of Nanostructures

Thesis Supervised **PhD: 20 + 3** (theses submitted to University for Evaluation); **MPhil: 120**

Books “Sol-Gel Preparation of Advanced Materials”, with Publishers

Conferences / Symposia organized **National 02; International 20**

Awards Received **Punjab University Research Productivity Award** – 2008, 2009, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019

Pakistan Council for Science and Technology (PCST) Research Productivity Award – 2012, 2014, 2015, 2016, 2017, 2018 & 2019 (yet to be announced)

Listed as Productive Scientist of Pakistan

Projects:

- Funded by Higher Education Commission (HEC), Pakistan – 2011-12 (**Rs. 0.5M**)
- Funded by Higher Education Commission (HEC), Pakistan – 2013-15 (**Rs. 38.53M**)
- Funded by University of the Punjab, Pakistan – 2017-18 (**Rs. 0.2M**)
- Funded by NRPU-Higher Education Commission, Pakistan- 2018-20 (**Rs. 8.66M**)
- Funded by NRPU-Higher Education Commission, Pakistan- 2018-20 (**Rs. 10.33M**)
- Funded by University of the Punjab, Pakistan – 2021-22 (**Rs. 0.298 million**)

Received Pakistan Academy of Sciences Gold Medal Award,

Listed among top2% world scientists

Publications: 282 (IF 721.415)

h-index: 32

i10-index: 130

Citations: 5104

PROF. DR. SAIRA RIAZ

Centre of Excellence in Solid State, University of the Punjab, QAC, Lahore,
Pakistan
| +924299233133-5 | saira.cssp@pu.edu.pk

EMPLOYMENT

| | |
|------------------------|--|
| March 2021- To-date | Tenured Professor <i>Centre of Excellence in Solid State Physics (CSSP), University of the Punjab, QAC, Lahore, Pakistan</i> |
| Sep 2018-To- date | Director (A) <i>Centre of Excellence in Solid State Physics (CSSP), University of the Punjab, QAC, Lahore, Pakistan</i> |
| 2015-2021 | Associate Professor (Tenured) <i>Centre of Excellence in Solid State Physics (CSSP), University of the Punjab, QAC, Lahore, Pakistan</i> |
| 2009-2015 | Assistant Professor (TTS) <i>Centre of Excellence in Solid State Physics (CSSP), University of the Punjab, QAC, Lahore, Pakistan</i> |
| 2008-2009 | Assistant Professor <i>Centre of Excellence in Solid State Physics (CSSP), University of the Punjab, QAC, Lahore, Pakistan</i> |
| 2003-2008 | Lecturer <i>Centre of Excellence in Solid State Physics (CSSP), University of the Punjab, QAC, Lahore, Pakistan</i> |

EXPERIENCE

| | |
|--------------------------|---|
| 2006 (March - August) | Visiting Researcher – IRSIP (HEC), Pakistan <i>State Key Laboratory of Magnetism, Chinese Academy of Sciences, China (on leave from CSSP)</i> |
| 2007 (May - June) | Research Associate <i>State Key Laboratory of Magnetism, Chinese Academy of Sciences, China (on leave from CSSP)</i> |
| 2007 (Oct -Nov) | Research Associate <i>State Key Laboratory of Magnetism, Chinese Academy of Sciences, China (on leave from CSSP)</i> |

- 2008 **Post-doc Fellowship – by NCNST, Pakistan**
Spintronics and Nanodevices,
Department of Electronics, University of York, Heslington, York
UK (on leave from CSSP)
- 2011 **Research Associate**
State Key Laboratory of Magnetism,
Chinese Academy of Sciences, China (on leave from CSSP)
- 2014-15 **Young Post-doc Fellowship - IOP (CAS)**
State Key Laboratory of Magnetism,
Chinese Academy of Sciences, China (on leave from CSSP)

EDUCATION

- 1998 BSc, (Math A-B, Physics), *University of the Punjab*
- 2001 MSc Physics, University of the Punjab
- 2002 Post Graduate Diploma, Computer Science, AIOU
- 2003 MPhil Solid State Physics (Course Work), Centre of Excellence in Solid State Physics, University of the Punjab
- 2008 PhD Solid State Physics (Experimental), Centre of Excellence in Solid State Physics, University of the Punjab

DISTINCTIONS

- 1st position in District Okara in SSC Examination
- President Scholarship in SSC and FSc
- 1st position in AIOU (PGD Computer Science)
- 1st position in MPhil Solid State Physics
- International research support initiative (IRSIP) scholarship (HEC)
- Post doc fellowship, University of York, UK, funded by National Centre for Nanoscience and Nanotechnology (NCNST) Pakistan
- Post doc fellow ship, Institute of Physics, Chinese Academy of Sciences, Beijing, China

PUBLICATION SUMMARY

- Impact Factor Publication: 282 (**IF 721.415**)
- HEC recognized non-Impact factor publications: **158**
- International conference presentations: **221**
 (Keynotes: **2**, Invited talk: **9**)
- National conference presentations: **36** (Invited talks: **2**)

EDITOR

- Materials Today: Proceedings by Elsevier (ICSSP'13)
- ICSSP'15 Proceedings
- Frontiers in Electronic Materials
- Materials Innovations

PROFESSIONAL MEMBERSHIPS

- Member American Solar Energy Society (ASES)
- Member American Vacuum Society (AVS)
- Mmember IEEE, Member IEEEMag
- Member TWOWS
- Member International Sol-gel Society (ISGS)
- Member PIP
- Member NCQT
- Member PUASA

PROFESSIONAL AWARDS

- Punjab University Research Productivity Award – 2008
- Punjab University Research Productivity Award – 2009
- Punjab University Research Productivity Award – 2011
- Punjab University Research Productivity Award – 2012
- Pakistan Council for Science and Technology (PCST) Research Productivity Award – 2012 (*Category G*)
- Punjab University Research Productivity Award – 2013
- Pakistan Council for Science and Technology (PCST) Research Productivity Award – 2013 (*Category G*)
- Punjab University Research Productivity Award – 2014
- Punjab University Research Productivity Award – 2015
- Pakistan Council for Science and Technology (PCST) Research Productivity Award – 2015 (*Category B*)
- Punjab University Research Productivity Award – 2016
- Pakistan Council for Science and Technology (PCST) Research Productivity Award – 2016 (*Category B*)
- Punjab University Research Productivity Award – 2017
- Pakistan Council for Science and Technology (PCST) Research Productivity Award – 2017 (*Category A*)

- Punjab University Research Productivity Award – 2018
- Pakistan Council for Science and Technology (PCST) Research Productivity Award – 2018 (*Yet to be announced*)

- Punjab University Research Productivity Award – 2019
- Pakistan Council for Science and Technology (PCST) Research Productivity Award – 2019 (*Not announced*)

- Punjab University Research Productivity Award – 2020
- Pakistan Council for Science and Technology (PCST) Research Productivity Award – 2020 (*Not announced*)

Pakistan Academy of Sciences Gold Medal Award (2021)

Listed among top 2% world scientists

ADDITIONAL PROFESSIONAL RESPONSIBILITIES

- In-charge Experimental Facilities – 2009 to 2018
- Editor, Solid State Newsletter – 2009 to 2018
- Conference Secretary of biannual ICSSP series started in 2013

RESEARCH PROJECTS

- “Study and fabrication of AlN thin film by CVD, application in the UV, Visible and Near IR Photoluminescence photonic devices” Funded by Higher Education Commission (HEC), Pakistan – 2011-12 (**Rs. 0.5 million**)
- “Establishment of Research Facilities for Nano-Ceramics”, Funded by Higher Education Commission (HEC), Pakistan – 2013-15 (**Rs. 38.53 million**)
- “Preparation and Characterization of Zirconia-Titania based High-Strength Ceramics”, Funded by University of the Punjab, Pakistan – 2017-18 (**Rs. 0.2 million**)
- “Fabrication and Characterization of High efficiency Nano-materials based Solar Cells”, Funded by NRPU-Higher Education Commission - 2018-20 (**Rs. 8.66 million**)
- “Preparation and Characterizations of Rare Earth doped Nanostructured III-V Semiconductor materials for Temperature insensitive advanced optoelectronic applications”, Funded by NRPU-Higher Education Commission - 2018-21 (**Rs. 10.33 million**)
- “Laser Ablation in Liquid (LAL) to synthesize the metallic nanoparticles for advanced optoelectronic and nanomedicine applications” Funded by Higher Education Commission (HEC), Pakistan – 2021-22 (**Rs. 1.0 Million**)
- Investigation of Charge Injection and Diffusion Response in Ferromagnetic Multilayered Structures for Potential Memory Storage Devices, Funded by University of the Punjab, Pakistan – 2021-22 (**Rs. 0.298 million**)
- “A Study of the Exchange Coupling and Quantum Confinement Effects in Magnetic thin Films / Multilayered Structures of Spinel Oxides for Spintronic Applications” Submitted to Pakistan Science Foundation (**Rs. 15.85 million**)

SERVICES PROVIDED TO THE COMMUNITY

- ***Advisory Services other than Centre***
 - *Member*, Board of Studies, Institute of Physics, Govt. College University, Lahore– 2021- date
 - *Member*, Board of Studies, Khawaja Fareed University of Engineering and Information Technology, Rahim Yar Khan – 2021- date
 - *Member*, Board of Studies, Physics Department, University of Engineering and Technology, Lahore – 2020- date
 - *Member*, DTRC, High Energy Physics, Punjab University – 2019- date
 - *Member*, DTRC, Physics Department, Govt. College for Women University, Sialkot – 2019- date
 - *Member*, Selection Board, Physics Department, Govt. College for Women University, Sialkot – 2019- date
 - *Member*, Board of Faculty, Khawaja Fareed University of Engineering and Information Technology, Rahim Yar Khan – 2018- date
 - *Member*, Selection Board, Minhaj University, Lahore, 2018-date
 - *Member*, Board of Studies, Lahore College for Women University (LCWU), Lahore – 2017- date
 - *Member*, Project Review Committee, Poland
 - *Member*, Project Review Committee, Institute of Physics, CAS, China
 - Honorary Judge, National Science Olympiad held under the auspices of MOE, INTEL – 2005
 - Honorary Judge, National Science Exhibition held under the auspices of MOE, Beaconhouse School System – 2007
 - Incharge Solid State Physics Students' Society (SSPS) – 2012- date
 - Honorary Judge, MPhil / PhD Poster Competition at University of Engineering and Technology (UET) – 2013
- ***COE in Solid State Physics***
 - Chairperson, Departmental Doctoral Program Committee – 2019 to date
 - Secretary, Departmental Doctoral Program Committee – 2008 to 2018
 - Student Advisor – 2009 to 2018
 - Network Administrator, CSSP – 2004-09
 - Controller of Examination, MESP – 2004-08
 - Member, Selection Board – 2004-08
 - Secretary, Tender and Purchase Committee, CSSP – 2004 – 2018
 - Member, Tender and Purchase Committee, MERC – 2004-08
 - Established Nanoelectronics-Chemistry-Research Group (NCR) – 2005
- ***Supervision of BS / MS / PhD Research Students other than Centre's***
 - FCC, Lahore (5 BS students)
 - Kinnaird College, Lahore (2 BS students)
 - UHS, Lahore (1 MS student)
 - LCWU, Lahore (2 MSc students, **2 PhD** students)
 - IIU, Islamabad (1 MS Student)
 - UTM, Malaysia (**1 PhD** student)
 - Physics Department, PU (3 M Phil students)

- Institute of Agriculture Sciences, PU (**1 PhD** student)
- University of Malmö, Sweden (**1 PhD** student)

- ***Conferences***

- Conference Secretary, ICSSP'13, ICSSP'15, ICSSP'17, ICSSP'19
- Judge, Poster Session, ICSSP'13, December 1-6, 2013
- Judge, Poster Session, ICSSP'15, December 13-17, 2015
- Judge, Poster Session, ICSSP'17, December 10-14, 2017
- Chairperson – Technical sessions at International Conferences

External Examiner- MSc / MPhil / PhD Research Students

- University of Engineering and Technology (UET), Lahore
- Lahore College for Women University (LCWU), Lahore
- Govt. College University (GCU), Lahore
- Forman Christian College (FCC) University, Lahore
- University of Sargodha, Sargodha
- Member, PhD Comprehensive Examination, Physics Department, Islamia University Bahawalpur
- University of Lahore (UoL)

- *Reviewer of International Journals*

CONFERENCES ORGANIZED (NATIONAL LEVEL) 2

- Conference Secretary of “One Day National Meeting on Nanotechnology Research in Pakistan” – August 03, 2010
- One Day Symposium on LASERS – 2010

1. “Iron Oxide – A Promising Material for Spintronic and Biomedical Applications” Symposium organized at ICAMR, Seoul, Korea, August 26-30, 2012
2. “Nanomaterials for Photovoltaic Applications” Symposium organized at ICAMR, Seoul, Korea, August 26-30, 2012
3. “Nanomaterials for Electronic / Biomedical Applications” Symposium organized at ANBRE, Seoul, Korea, August 25-28, 2013
4. “Significance of Iron Oxide Nanostructures” Symposium organized at ANBRE, Seoul, Korea, August 25-28, 2013
5. “Advanced Materials for PV Applications” Symposium organized at ANBRE, Seoul, Korea, August 25-28, 2013
6. International Conference on Solid State Physics – 2013 (ICSSP’13) (<http://www.icssp13.org.pk>) Lahore, Pakistan December 1-6, 2013
7. “Iron Oxide and its Allied Materials” Symposium organized at ICAMR, Busan, Korea, August 25-28, 2014
8. “Nano-Oxide for Optical Applications” Symposium organized at ICAMR, Busan, Korea, August 25-28, 2014
9. “Semiconductor Formation through Chemical Routes” Symposium organized at ICAMR, Busan, Korea, August 25-28, 2014
10. “Magnetic Nanostructures for Various Hi-Tech Applications” Symposium organized at ICAMR, Busan, Korea, August 25-28, 2014
11. International Conference on Solid State Physics – 2015 (ICSSP’15) (<http://www.icssp15.org.pk>) Lahore, Pakistan December 13-17, 2015
12. “Recent Advances in Nanomaterials” Symposium organized at ICAMR, Jeju, Korea August 26 – September 01, 2016
13. “Nanobiotechnology: Materials and Applications” Symposium organized at ICAMR, Jeju, Korea August 26 – September 01, 2016
14. “Nanoceramics and Nanocomposites” Symposium organized at ICAMR, Jeju, Korea August 26 – September 01, 2016
15. “2 Dimensional Materials in Modern Perspective” Symposium organized at ICAMR, Jeju, Korea August 26 – September 01, 2016
16. International Conference on Solid State Physics – 2017 (ICSSP’17) (<http://www.icssp17.org.pk>) Lahore, Pakistan December 10-14, 2017
17. “Bio-medical Applications of nanomaterials” symposium organized at 2018 International Conference on Advances in Materials Research (ICAM18), Songdo Convensia, Incheon, Korea, August 27 - 31, 2018
18. “Hi-tech Alloys and Compounds” symposium organized at 2018 International Conference on Advances in Materials Research (ICAM18), Songdo Convensia, Incheon, Korea, August 27 - 31, 2018
19. “Thin Films and Coatings” symposium organized at 2018 International Conference on Advances in Materials Research (ICAM18), Songdo Convensia, Incheon, Korea, August 27 - 31, 2018
20. “Nanomaterials for electronic applications” symposium organized at 2018 International Conference on Advances in Materials Research (ICAM18), Songdo Convensia, Incheon, Korea, August 27 - 31, 2018
21. International Conference on Solid State Physics – 2019 (ICSSP’19) (<http://www.icssp19.org.pk>) Lahore, Pakistan December 08-12, 2019

COURSES FORMULATED (MPHIL & PHD LEVEL)

- Spintronics – Theory and Devices (For the first time in Pakistan) Started in 2009
- Physical Fabrication of Nanostructures
- Physical Fabrication of Nanostructures – Lab
- Chemical Synthesis of Nanostructures
- Simulation and Synthesis Lab for Nanomaterials
- Bio nanotechnology
- Characterization of Nanostructures
- Semiconducting Nanostructures and optoelectronic devices

COURSES TAUGHT (PHD, MPHIL & BS LEVEL)

MS Nanotechnology (NT)

- Physical Fabrication of Nanostructures
- Characterization of Nanostructures
- Physical Fabrication and Characterization lab

MPhil Solid State Physics (SSP)

- Semiconductor Theory
- Thin Films Technology
- X-Ray Diffraction Lab
- Magnetic Measurements Lab
- Thin Films and Optical Lab

MPhil Microelectronic Engineering and Semiconductor Physics (MESP)

- Semiconductor Physics
- Spintronics – Theory & Devices
- Semiconductor Nanostructures & Optoelectronic Devices
- Thin Films and Photolithography Lab

BS Electronics

- Electronic Devices

BS Environment Science

- Industrial Mineralogy
- Industrial Mineralogy Lab

RESEARCH FIELDS

- Semiconductors for *PV Devices*
- Magnetic materials / DMS for *Spintronic Devices*
- Nanomaterials for *electronic applications, antimicrobial applications and protective coatings*

CAN RUN AND HANDLE

- Scanning Electron Microscope
- Optical Microscope
- X-Ray Diffractometer
- Vacuum Evaporation Coating Unit
- CVD Furnace
- Vibrating Sample Magnetometer
- Surface Profilometer
- Furnaces
- RF Magnetron Sputtering
- Plasma Etcher
- UV-Photolithography
- Chemical Lab

THESES SUPERVISED (BS)

| | | |
|-------------------|---------|---|
| Sajid Mehmood | 2006-10 | Growth of Carbon Nanowires on 304 SS Substrates, <i>B.S. (Hons.) FCC, Co-Supervisor</i> |
| M Farhan Nawaz | 2006-10 | Uniform Large Area Growth of DLC nanowires on SS Substrates, <i>B.S. (Hons.) FCC, Co-Supervisor</i> |
| Irfan Aslam | 2006-10 | Carbon Nanostructures Deposited by Thermal CVD on 430 SS Substrate, <i>B.S. (Hons.) FCC, Co-Supervisor</i> |
| M Ayyaz | 2006-10 | Decomposition of Methane to Deposit Carbon Nanostructures, <i>B.S. (Hons.) FCC, Co-Supervisor</i> |
| Pooja Pervaiz | 2008-12 | Optical Characterization of CuInSe ₂ Thin Films Deposited by Thermal Evaporation <i>BS Co-Supervisor (Kinnaird College)</i> |
| Mehreen | 2008-12 | Structural Characterization of CuInSe ₂ Thin Films Deposited by Thermal Evaporation, <i>BS Co-Supervisor (Kinnaird College)</i> |

THESES SUPERVISED (MPHIL / MS)

1. Qurratulain Ahmad 2007-09 Preparation and Characterization of ZnO thin Films Through Sol-Gel Route, ***M.Phil. Supervisor (SSP)***
2. Fauzia Iqbal 2007-09 A Study of Deposition, characterization, and Growth Conditions of Carbon Nanostructures, ***M.Phil. Supervisor (SSP)***
3. Zoobia Ameer 2007-09 Preparation Possibilities of Template Assisted Nano-Growth, ***M.Phil. Supervisor (SSP)***
4. Ayesha Siddiqua 2007-09 Fabrication and Electrical Characterization of Schottky Field Effect Transistor, ***M.Phil. Co-Supervisor (MESP)***
5. M Noman Iqbal 2008-10 Hydrogenation Effect on Carbon Nanostructures for Electronic Device / Applications, ***M.Phil. Supervisor (SSP)***
6. Asfand Yar 2008-10 DLC Formation and Characterization using Thermal CVD, ***M.Phil. Supervisor (SSP)***
7. Sher Zaman 2008-10 Fabrication and Characterization of Carbon Nanotube based Photosensor, ***M.Phil. Supervisor (MESP)***
8. Sajid Ali 2008-10 A comparison of experimentally observed properties of $Zn_xCd_{1-x}S$ Thin Films with Density Functional Theory Calculations, ***M.Phil. Supervisor (SSP)***
9. Robina Ashraf 2008-10 Growth and Study of ZnO Nanoparticles in Sol-Gel Deposited Thin Films , ***M.Phil. Supervisor (SSP)***
10. Shazia Naeem 2008-10 Growth and Characterization of CoPt Nanowires using AAO Templates, ***M.Phil. Supervisor (SSP)***
11. Rizwana Kausar 2008-10 Growth and Characterization of CoPt Nanowires Using AAO Templates , ***M.Phil. Supervisor (SSP)***
12. M Ashfaq Jamil 2008-10 Ellipsometric Studies of $Zn_xCd_{1-x}S$ Thin Films, ***M.Phil. Supervisor (SSP)***
13. Sajjad H Malik 2008-10 Growth and Characterization of ZnO Nanowires through Sol-Gel Route, ***M.Phil. Supervisor (SSP)***
14. Mahwish Bashir 2008-10 Preparation and Characterization of Mn Doped ZnO Through Sol Gel Technique , ***M.Phil. Supervisor (SSP)***
15. M Yasir 2008-10 Fabrication and Characterization of Carbon Nanostructure Based Field Effect Transistor , ***M.Phil. Supervisor (MESP)***
16. M Nadeem 2008-10 Theoretical and Experimental Determination of Optical Properties of Sol-Gel Deposited ZnO Thin Films, ***M.Phil. Supervisor (SSP)***
17. M Azam 2008-10 Designing and Simulation of Optoelectronic Devices using TCAD, ***M.Phil. Co-Supervisor (MESP)***
18. Sidra Farooq 2009-11 A study of PVD deposited FeO thin Films for magnetic applications, ***M.Phil. Supervisor (SSP)***
19. M Imran Irshad 2009-11 Preparation and Characterization of FeNiCo Multilayered Magnetic Thin Film , ***M.Phil. Supervisor (SSP)***

20. Farhan Ahmad 2009-11 Determination of optical constant of sol-gel deposited oxides using spectroscopic ellipsometer, *M.Phil. Supervisor (SSP)*
21. Tayyab A Shah 2009-11 Study of the effects of Co nanoparticles on the properties of Carbon Nanotubes, *M.Phil. Supervisor (SSP)*
22. Pervaiz Ahmad 2009-11 Synthesis and Characterization of Fe₃O₄ Nanoparticles by Sol-Gel Technique for Bio-Medical Application , *M.Phil. Supervisor (SSP)*
23. Kashif Safeen 2009-11 Preparation and Characterization of Transition Metal Doped ZnO Thin Films , *M.Phil. Supervisor (SSP)*
24. Akif Safeen 2009-11 A study of optical, structural and magnetic properties of un-doped ZnO thin films, *M.Phil. Supervisor (SSP)*
25. Aseya Akbar 2009-11 Synthesis, fabrication and characterization of Fe₃O₄ nanowire based transistor, *M.Phil. Supervisor (MESP)*
26. Rizwana Nawaz 2009-11 Sol Gel Deposited ZnO for Solar Cell Applications , *M.Phil. Supervisor (MESP)*
27. Sidra Illyas 2009-11 Thermal CVD growth of Carbon nanostructures at high temperatures and their device applications, *M.Phil. Supervisor (MESP)*
28. Kahakshan Shahzadi 2009-11 Preparation and Characterization of ZnS Thin Films for Optoelectronic Applications , *M.Phil. Supervisor (MESP)*
29. M Rashid 2009-11 Carbon nanowires based transistors – Fabrication Possibilities, *M.Phil. Supervisor (MESP)*
30. Gull Jabeen 2010-12 Fabrication and Characterization of SnO₂ nanoparticles, *MS Supervisor (NT)*
31. Hira Usman 2010-12 Fabrication & Characterization of Magnetic Tunnel Junction Using Fe₃O₄ as a Tunnel Barrier , *M.Phil. Supervisor (MESP)*
32. Samia Hussain 2010-12 Preparation and Characterization of Zn_xCd_{1-x}S thin films, *M.Phil. Supervisor (MESP)*
33. Iqra Jaffer 2010-12 Modeling and Designing of RF MEMS using ANSYS, *M.Phil. Supervisor (MESP)*
34. Sehrish Gull 2010-12 Synthesis and Characterization of ZnS nanoparticles, *M.Phil. Supervisor (MESP)*
35. Hareem Latif 2010-12 Simulation and Modeling of AlGa_N/Ga_N VHFET by Using TCAD , *M.Phil. Supervisor (MESP)*
36. Kaleem Ullah 2010-12 Modeling, Designing and Simulation of Optoelectronic Devices using TCAD, *M.Phil. Supervisor (MESP)*
37. M Amer Mustafa 2010-12 Study of Impact Ionization in the 3-Dimensional (3D) Fin Field Effect Transistor (FinFet) Structure by Varying Channel Doping Concentration at Higher Temperature Using SYNOPSIS TCAD *M.Phil. Supervisor (MESP)*

38. Saher Hamid 2010-12 Fabrication and characterization of ZrO nanoparticles, ***MS Supervisor (NT)***
39. M Zain Akram 2010-12 A study of CVD prepared CdTe nanoparticles for Photovoltaic applications, ***MS Supervisor (NT)***
40. Maleeha Qasim 2010-12 A study of CVD prepared CdS nanoparticles for Photovoltaic applications, ***MS Supervisor (NT)***
41. Rabia Noor 2010-12 A Comparative Study of ZnO Thin Films, Nanowires and Nanotubes for Photovoltaic Applications , ***MS Supervisor (NT)***
42. Muzammil Iqbal 2010-12 Effect of nanocatalyst on the Growth and Characterization of Carbon Nanotubes, ***MS Supervisor (NT)***
43. Nadeem Abbas 2010-12 Study of Structural Changes in ZnO Nanowires by Ion Beam Irradiation ***M.Phil. Supervisor (SSP)***
44. Asma Asif Khan 2010-12 3-D Modeling and Simulation of YBCO High Temperature Superconductor by Using ANSYS applications, ***M.Phil. Supervisor (MESP)***
45. Talha Ijaz 2010-12 Synthesis and characterization of nano-catalysts, ***MS Supervisor (NT)***
46. Shyreen Fatima 2010-12 Bacteria Removal Form Water by Using Al₂O₃ and FeO Nanoparticles , ***Supervisor (NT)***
47. Anam Butt 2011-13 Synthesis and Characterization of Cadmium Telluride (CdTe) Nanoparticles for Electronic Device Applications , ***M.Phil. Supervisor (MESP)***
48. Aleena Habiba 2011-13 Structural and Magnetic Properties of Iron Oxide Nanoparticles Coated Carbon Nanotubes , ***M.Phil. Supervisor (MESP)***
49. Afifa Sadaqat 2011-13 Synthesis and Characterization of CdS Nanoparticles for Electronic Device Applications , ***M.Phil. Supervisor (MESP)***
50. Shafaque Batool 2011-13 Preparation, Characterization and Optimization of Cu, In (Ga_{1-x}, Al_x) Se₂ for x=0.1, 0.3, 0.5, 0.7 and 0.9 Thin Films for Photovoltaic Applications, ***M.Phil. Supervisor (SSP)***
51. Anam Azam 2011-13 Preparation, Characterization and Optimization of Cu (In, Ga_x, Al_{1-x}) Se₂ for x=0.0, 0.2, 0.4, 0.6, 0.8, 1.0 Thin Films for Photovoltaic Applications , ***M.Phil. Supervisor (MESP)***
52. Sehla Maryam 2011-13 Preparation and Characterization of ZnCdS thin films for Solar Cell Applications, ***M.Phil. Supervisor (MESP)***
53. Beenish Maria Tahir 2011-13 Fabrication and Characterization of MgFeO Thin Films for MTJs, ***M.Phil. Supervisor (MESP)***
54. Sheezah Zafar 2011-13 Fabrication and Characterization of AlFeO Thin Films for MTJs, ***M.Phil. Supervisor (MESP)***

55. Mussarat Fatima 2011-13 Atomic Force Microscopy of Nanoparticles, **MS Supervisor (NT)**
56. Imtiaz Ahmad 2011-13 Synthesis and Characteruzation of ZrO_2 -ZnO Nanoparticles, **MS Supervisor (NT)**
57. M Ahsan Iqbal 2011-13 Electromagnetic Absorption and Mechanical Properties of hybrid Nanocomposites using MWCNTs and Nanodiamond Powder , **MS Supervisor (NT)**
58. M Imran 2011-13 Synthesis and Characterization of TiO_2 Nanoparticles, **MS Supervisor (NT)**
59. Nasir Ali 2011-13 Synthesis and Characterization of ZnO Nanoparticles, **MS Supervisor (NT)**
60. Asma Zubair 2011-13 Preparation and Characterization of ZnTe Thin Films, **M.Phil. Supervisor (SSP)**
61. H Tariq Masood 2011-13 Preparation and Characterization of Carbon Nanostructures, **MS Supervisor (NT)**
62. M Azam 2011-13 Synthesis and Characterization of Al_2O_3 Nanoparticles, **MS Supervisor (NT)**
63. Nazmina Imrose 2011-13 Synthesis and Characterization of ITO Nanoparticles, **MS Supervisor (NT)**
64. Tahir Naveed 2011-13 Synthesis and Characterization of ZnTe Nanoparticles, **MS Supervisor (NT)**
65. Adnan Naseer 2012-14 A Comparative Study of Electrical Properties of Exposed and unexposed ZnTe junctions, **M.Phil. Supervisor (MESP)**
66. M Hassan 2012-14 A Comparative Study of C-V measurements of Exposed and unexposed ZnTe junctions, **M.Phil. Supervisor (MESP)**
67. Unaiza Ahmad 2012-14 A Comparative Study of I-V measurements of Exposed and unexposed CIAGS junctions, **M.Phil. Supervisor (MESP)**
68. M Imran 2012-14 A Comparative Study of SPV of Exposed and unexposed ZnTe junctions, **M.Phil. Supervisor (MESP)**
69. M Tahir 2012-14 A Comparative Study of SPV measurements of Exposed and unexposed CIAGS junctions, **M.Phil. Supervisor (MESP)**
70. Zoobia Sattar 2012-14 Preparation and Characterization of electrodeposited AlFeO Thin Films, **M.Phil. Supervisor (SSP)**
71. Sunniya Siddique 2012-14 Preparation and Characterization of electrodeposited MgFeO Thin Films, **M.Phil. Supervisor (SSP)**
72. Manzar M Yaqoob 2012-14 Structural and Dielectric Properties of MF Annealed AlFeO Thin Films, **M.Phil. Supervisor (SSP)**
73. Unaiza Nafees 2012-14 Magnetic Field Annealing of electrodeposited MgFeO Thin Films, **M.Phil. Supervisor (SSP)**

74. Shabana Aziz 2012-14 Analysis of On-Resistance, Break-Down Voltage and Finite Element Simulation in Normally-off 4H-SiC VJFET , ***M.Phil. Supervisor (SSP)***
75. Waqar Azeem 2012-14 IC Designing and Simulations using various tools, ***M.Phil. Supervisor (MESP)***
76. Rabia Akram 2012-14 Structural and Magnetic Properties of Iron Aluminum Oxide Nanostructures, ***MS Supervisor (NT)***
77. M Faud Malik 2012-14 Structural and Magnetic Properties of Iron Magnesium Oxide Nanostructures, ***MS Supervisor (NT)***
78. M Zeeshan 2012-14 Designing and Simulation of digital logic gates, ***M.Phil. Supervisor (MESP)***
79. Natasha Tariq 2013-15 Effect of Ball Milling on Structural and Dielectric Properties of Aluminum Oxide, ***MS Supervisor (NT)***
80. Samar Tariq 2013-15 Structural, Magnetic & Dielectric Properties of Iron Alumium Oxide, ***MS Supervisor (NT)***
81. Nimra Iqbal 2013-15 Effect of Nano Ball Milling on the Properties of Yttrium Oxide Prepared by Solid State Reaction, ***M.Phil. Supervisor (SSP)***
82. Iqra Arshad 2013-15 Analysis of DC Characteristics of SiGe Hetrojunction, ***M.Phil. Supervisor (MESP)***
83. Ayman Maqsood 2013-15 Simulation and Modeling of Edge Emitting Laser Diodes Using GaAs/AlGaAs by TCAD, ***M.Phil. Supervisor (MESP)***
84. Muntaha Niaz 2013-15 Structural and Magnetic Properties of Electrodeposited Iron Aluminum Oxide, ***MS Supervisor (NT)***
85. Hira Ishaq 2013-15 Effect of Reaction Time on Electrodeposited Iron Aluminum Oxide Nanoparticles, ***MS Supervisor (NT)***
86. Urfa Munir 2013-15 Effect of Oxidation Time on Electrodeposited Iron Aluminum oxide Nanoparticles, ***MS Supervisor (NT)***
87. Nimra Riaz 2013-15 Simulation of Planar and Pyramid GaN LEDs Using SYNOPSIS TCAD, ***M.Phil. Supervisor (MESP)***
88. Deborah Eric 2013-15 Designing and Simulation of IGBT Using SYNOPSIS TCAD, ***M.Phil. Supervisor (MESP)***
89. Sama S Khan 2014-16 Synthesis and Characterization of Spin Coated Bismuth Ferrite Thin Films, ***M.Phil. Supervisor (SSP)***
90. Rida Ahmed 2014-16 Structural and Mechanical Properties of Calcined Glocuse and Frocucose additive Zirconia nanoparticles, ***M.Phil. Supervisor (SSP)***
91. Gulshan Ayub 2014-16 Optical and Dielectric Properties of Aluminum Nitride Thin Films prepared by sol-gel route, ***M.Phil. Supervisor (SSP)***
92. Saba Mustafa 2014-16 Preparation and Characterization of high dielectric Maghemite Thin Films by Sol- Gel method, ***M.Phil. Supervisor (SSP)***
93. Aqsa Shahid 2014-16 Prepartion and Characterization of maghemite Thin Films using sol gel and Spin coating method, ***M.Phil. Supervisor (SSP)***

94. Attia Awan 2014-16 Bismuth Iron Oxide Thin Films for Electronic Application – Structural and Dielectric Properties, ***M.Phil. Supervisor (SSP)***
95. Hafiza Syeda Faiza 2014-16 Detailed Investigation of Dielectric Properties of Bismuth Iron Oxide (BFO) Thin Films Using Impedence Analyzer, ***M.Phil. Supervisor (SSP)***
96. Hafiza Iqra Elahi 2014-16 Synthesis and Characterization of AlN Thin Films by sol gel Method, ***M.Phil. Supervisor (SSP)***
97. M Maryam Iram 2014-16 Effect of Milling Frequency on structural and Dielectric Properties of Zinc Aluminate, ***M.Phil. Supervisor (SSP)***
98. Wajiha Arif 2014-16 Preparation and Characterization of Cr-doped Bismuth Ferrite (BiFeO₃) Thin Films by Sol Gel, ***M.Phil. Supervisor (SSP)***
99. Sajid ur Rehman 2014-16 Fabrication of Chemically prepared ZnO Nanotubes based sensors, ***M.Phil. Supervisor (MESP)***
100. Jane Albert 2014-16 Effect of Exposure time on the Sensitivity of Chemically prepared ZnO Nanotubes based sensors, ***M.Phil. Supervisor (MESP)***
101. Hina Zohra 2014-16 Effect of Calcination Time on Microstructural, magnetic and Dielectric Properties of Bismuth Ferrite Nanoparticles, ***MS Supervisor (NT)***
102. Sumeera Shaheen 2014-16 Prepaarton and Characterization of Iron Oxide Thin Films using sol gel and Spin coating method, ***MS Supervisor (NT)***
103. Tanzeela Batool 2015-17 Optimization of Teeth Coatings Using ZrO₂ Nanoparticles, ***M.Phil. Supervisor (SSP)***
104. M Hammad Siddiqi 2015-17 Optimization of Teeth Coatings Using TiO₂ Nanoparticles, ***M.Phil. Supervisor (SSP)***
105. Noreen Iqbal 2015-17 Synthesis and Characterization of Hematite Nanoparticles, ***M.Phil. Supervisor (SSP)***
106. Ifra Sanaullah 2015-17 Effect of Organic Silica Nanoparticles on Dental Fillers, ***M.Phil. Supervisor (SSP)***
107. Idrees Khan 2015-17 Effect of Molar Concentration on Structural and Electronic Behavior of Electrodeposited Maghemite Thin Films, ***M.Phil. Supervisor (SSP)***
108. Imran Khan 2015-17 Magnetic and Magnetization properties of Electrodeposited iron oxide thin films, ***M.Phil. Supervisor (SSP)***
109. Sakina Hassan 2015-17 Temperature dependent Sensing Properties of BiFeO₃ Based Chemical Sensor, ***M.Phil. Supervisor (MESP)***
110. S Alina Imam 2015-17 Fabrication and Characterization of BiFeO₃ Nanoparticles based Sensor, ***M.Phil. Supervisor (MESP)***
111. Farnaz Deebea 2015-17 Fabrication and Characterization of ZnO Chemical Sensor – Effect of Gate Voltage, ***M.Phil. Supervisor (MESP)***
112. Samra Syed 2015-17 Temperature Dependent Electrical Properties of Phase Pure BiFeO₃ Nanoparticles, ***MS Supervisor (NT)***

113. Erum Kakar 2015-17 Nanomechanical Properties of Waterborne Coatings and its Dependence on Humidity, **MS Supervisor (NT)**
114. Muqaddas Zia 2016-18 Effect of organic additives on sensing properties of zirconia nanoparticles **M.Phil. Supervisor (MESP)**
115. Urwah Mazhar 2016-18 Sensing behavior of titania doped zirconia nanoparticles **M.Phil. Supervisor (MESP)**
116. M Furqan 2016-18 Structural and magnetic properties of RF-magnetron sputtered Fe/Cr/Co multilayered structures **M.Phil. Supervisor (SSP)**
117. M Usama 2016-18 Influence of molarity on structural, complex impedance spectroscopy and chemical studies of calcium titanate nanoparticles **MS Supervisor (NT)**
118. Rabbiya Anjum 2017-19 Optimization of Tunneling Magnetoresistance across Fe/Cr/MgAl₂O₄/Cr/Ni Multilayered Structure **M.Phil. Supervisor (MESP)**
119. Fatima Iqbal 2017-19 Optimization of Magneto-Dielectric Coupling across Fe/Cr/MgAl₂O₄/ Cr/Ni Electrodeposited Multilayered Thin Films **M.Phil. Supervisor (MESP)**
120. Azka Farrukh Butt 2017-19 Magnetic and Magnetization Properties of Electrodeposited Spinel FeAl₂O₄ Thin Films **M.Phil. Supervisor (SSP)**
121. Fatima Rubab 2017-19 Anomalous Dielectric Behavior of Electrodeposited Spinel FeAl₂O₄ Thin Films **M.Phil. Supervisor (SSP)**
122. Hina Fatima 2017-19 Structural, Electronic and Magnetic Properties of Cs₂CrGe Full Heusler Alloy Using Density Functional Theory **M.Phil. Supervisor (SSP)**
123. Tehreem Razzaq 2017-19 Synthesis and Magneto-Dielectric Effect of Spinel FeCr₂O₄ Nanoparticles **M.Phil. Supervisor (SSP)**
124. Amreen Qamar 2017-19 Radiolabelling and biodistribution of Organic additives based Zirconia nanoparticles – A sol-gel approach **M.Phil. Supervisor (SSP)**
125. Tabassum Amin 2017-19 Radiolabelling and biodistribution of Iron doped Zirconia nanoparticles – A sol-gel approach **M.Phil. Supervisor (SSP)**
124. Muniba tus Saba 2018-20 Antifungal activity of green synthesized titanium oxide nanoparticles **M.Phil. Supervisor (SSP)**
125. Tasnim us Saba 2018-20 Antifungal activity of green synthesized zinc oxide nanoparticles **M.Phil. Supervisor (SSP)**
126. M Mishkat 2018-20 Anti-fungal behaviour of green synthesized selenium and iron oxide nanoparticles using various fruit peels against tomato crop **M.Phil. Supervisor (SSP)**

127. Ayesha Kiran 2018-20 High activation energy and magnetization enhancement in hematite thin films ***M.Phil. Supervisor (SSP)***
128. Adnan Karim 2018-20 Magnetic and magnetization properties of Fe₂TiO₄ thin films as potential tunnel barrier ***M.Phil. Supervisor (SSP)***
129. Amna Farooq 2018-20 Rapid microwave assisted sol-gel synthesis of ultra small superparamagnetic iron oxide nanoparticles ***M.Phil. Supervisor (SSP)***
130. Riffat Shakeel 2018-20 Structural and magnetic properties of electrodeposited CoMnSn half Heuslar alloy ***M.Phil. Supervisor (MESP)***
131. Sana Afzal 2018-20 Structural and magnetic properties of electrodeposited CoNiSn half Heuslar alloys ***M.Phil. Supervisor (MESP)***
132. Javeria 2018-20 Structural and magnetic properties of electrodeposited CoCrSn half Heuslar alloys ***M.Phil. Supervisor (MESP)***
Saleem
133. Asfia Ehsan 2018-20 Effect of molarity on magnetic and magnetization response of CoFeSn Heuslar alloys ***M.Phil. Supervisor (MESP)***

THESES SUPERVISED (PHD)

| | | | |
|----|------------------|---------|--|
| 1 | Shumaila Islam | 2009-14 | <i>Synthesis and Characterization of Silica-Titania Nanocomposites for pH Fiber Optic Sensing (Joint student with UTM, Malaysia)</i> |
| 2 | M Saeed Akhtar | 2009-14 | <i>Preparation and Characterization of ZnS based Half Metallic Ferromagnets (Microelectronics)</i> |
| 3 | Farzana Majid | 2010-15 | <i>Synthesis of BiFeO₃ Nanostructures and their Correlation with Theory (Solid State Physics)</i> |
| 4 | S Mazhar H Shah | 2011-16 | <i>Preparation and Characterization of BiFeO₃ Thin Films through Chemical Route (Solid State Physics)</i> |
| 5 | Aseya Akbar | 2011-16 | <i>Preparation and Characterization of Different Iron Oxide Phases for Advanced Applications (Microelectronics)</i> |
| 6 | Mahwish Bashir | 2011-16 | <i>Stabilization of Zirconia Using Different Experimental Methods and Their Applications (Nanotechnology)</i> |
| 7 | Robina Ashraf | 2011-16 | <i>Experimental Investigation of Iron Based Nanostructures and their Correlation with Theory (Solid State Physics)</i> |
| 8 | M Azam | 2012-17 | <i>Theoretical and Experimental Investigations of Fe and Al Based Spinel (Microelectronics)</i> |
| 9 | Zaheer H Shah | 2013-18 | <i>Synthesis and Characterization of Iron Oxide Coated and Un coated Silica Nanoparticles (Nanotechnology)</i> |
| 10 | Bushra S Bukhari | 2014-19 | <i>Microwave Assisted Sol-Gel Synthesis of Zirconia Nano Ceramics (Nanotechnology)</i> |
| 11 | Fazeelat Mukhtar | 2014-19 | <i>Preparation and Characterization of Electrodeposited Iron Aluminum Oxide Spinel Thin Films (Joint student with Lahore College for Women University)</i> |
| 12 | Hassan Yousaf | 2014-19 | <i>Characterization of Optical Coatings Developed by Chemical and Physical Routes for Advanced Applications Films (Microelectronics)</i> |
| 13 | Waqar Azeem | 2014-19 | <i>Microwave Assisted Sol-Gel Synthesis of BiFeO₃ Thin Films Suitable for Electronic Applications (Microelectronics)</i> |
| 14 | M Tahir | 2014-19 | <i>Surface, Electronic and Structural Characterizations of Nanoparticles Based BiFeO₃ Thin Films (Microelectronics)</i> |
| 15 | Nudrat Humera | 2014-19 | <i>Preparation of Barium Titanate, Strontium Titanate and their Alloys for High-Tech Applications (Solid State Physics)</i> |
| 16 | Sidra Khan | 2014-19 | <i>Chemical Bath Deposition (CBD) of Doped and Un-doped BaTiO₃ Thin Films (Solid State Physics)</i> |

| | | | |
|----|------------------------|-----------|---|
| 17 | S Mudassar Muzaffar | 2014-19 | <i>Physically and Chemically Deposited Nano-ZnO based Films for Optoelectronic Applications (Solid State Physics)</i> |
| 18 | Hina Ashraf | 2014-19 | <i>Synthesis of Metal and Metal-Oxide Nanoparticles for Control on Tomato Wilt (Joint student with Institute of Agriculture Sciences, Punjab University)</i> |
| 19 | Hina Nazli | 2015-2020 | <i>Synthesis and Characterization of Electrodeposited Mg-Al based Spinel Thin Films (Joint student with Lahore College for Women University)</i> |
| 20 | M Imran | 2015-2020 | <i>Synthesis and Properties of Room Temperature Stabilized FeO – ZrO₂ Nanoceramics (Solid State Physics)</i> |
| 21 | Sidra Khalid | 2016-2021 | <i>Microwave-Assisted Sol-Gel Based Iron Oxide (Fe_xO_{1+x}; x=2,3) Thin Films: Preparation and Magnetodielectric Effects; Thesis submitted for Evaluation (Solid State Physics)</i> |
| 22 | Samia Naeem | 2016-2021 | <i>Synthesis, Structural and Impedance Properties of Nano Crystalline Zinc Chromite Spinel Oxide; Thesis submitted for Evaluation Material (Solid State Physics)</i> |
| 23 | Attia Awan | 2017-2022 | <i>Tailoring the Exchange Bias in Magnetic Multilayered Structures; Thesis submitted for Evaluation (Solid State Physics)</i> |
| 24 | Erum Kakar | 2017-2022 | <i>Exploring the Potential of Atomic Force Microscope's (AFM) Methodologies to investigate the role of humidity in Soft biological materials Thesis submission in Progress (Nanotechnology), Joint student with University of Malmo, Sweden</i> |

CURRENTLY ENROLLED PHD STUDENTS

| | | | |
|----|-----------------|-----------|--|
| 1. | Ifra SanaUllah | 2018-2023 | <i>Research Work, Nanotechnology, COE in SSP</i> |
| 2. | Tanzeela Batool | 2018-2023 | <i>Research Work, Nanotechnology, COE in SSP</i> |
| 3. | Faiza Arshad | 2019-2024 | <i>Research Work, Nanotechnology, COE in SSP</i> |

List of Publications

Impact Factor Papers (Impact Factor: 721.415)

1. “Magnetic and Magnetization Properties of CoFeB Nanowires”, *Journal of Magnetism and Magnetic Materials*, 310, e830, 2007
R Sharif, QX Zhang, S Shamaila, S Riaz, LX Jiang and XF Han **2.002**
2. “Effect of Reaction Temperature & Reaction Time on the Structural Properties of CIGS Thin Films Deposited by Sequential Elemental Layer Technique” *Journal of Materials Science and Technology*, 23, 499, 2007 **1.610**
S Riaz and S Naseem
3. “Barium Titanate Films for Electronic Applications: Structural and Dielectric Properties”, *Surface Review and Letters*, 15(3), 237, 2008. **0.515**
S Riaz, B Khan, S Shamaila, S Naseem
4. “Magnetic and Magnetization Properties of Electrodeposited fcc CoPt Nanowire Arrays”, *Journal of Magnetism and Magnetic Materials*, 320, 1803, 2008 **2.002**
S Shamaila, R Sharif, S Riaz, M Ma, M Khaleeq ur Rehman and XF Han
5. “Lower Temperature Formation of Alumina Thin Films Through Sol-Gel Route”, *Surface Review and Letters*, 15(5) 681, 2008 **0.515**
S Riaz, S Shamaila, B Khan, S Naseem S
6. “Fabrication and Magnetic Characterization of Co_xPt_{1-x} Nanowire Arrays”, *Applied Physics A*, 92, 687, 2008 **1.884**
S Shamaila, R Sharif, S Riaz, M Ma, M Khaleeq ur Rehman and XF Han
7. “Effect of Oxygen Partial Pressure on the Properties of Reactively Evaporated Zinc Aluminate Thin Films”, *International Journal of Material Research*, 2, 237, 2009
S Riaz and S Naseem **0.862**
8. “Structural, Magnetic and Electrical Properties of Al³⁺ Substituted CuZn-Ferrites”, *Chinese Journal of Chemical Physics*, 23, 591, 2010 **0.692**
SM Ramay, SA Siddiqi, S Atiq, MS Awan and S Riaz
9. “Room Temperature Magnetic Behavior of Sol-Gel- Synthesized Mn-Doped ZnO”, *Chinese Journal of Chemical Physics*, 23 (2010) 469 **0.692**
M Saleem, SA Siddiqi, S Atiq, MS Anwar and S Riaz
10. “Pulsed laser deposition and characterization of multi-layer metal-carbon thin films”, *Applied Surface Science*, 257 (2011) 6445-6450 **2.538**
K Siraj, M Khaleeq-ur-Rehman, MS Rafique, MZ Munawar, S Riaz and S Naseem S
11. “Room Temperature Ferromagnetism in Sol-Gel deposited Un-doped ZnO Films”, *Journal of Sol-Gel Science and Technology*, 59 (2011) 584-590 **1.660**
S Riaz, S Naseem and YB Xu

12. "Fission Fragments Tracked-Etched Proresin Borate Glass", *International Journal of Pharma and Bioscience*, 3 (2012) 368 - 374 **2.96**
A Waheed, GR Mitchell, PJF Harris, M Farmer, A Watta, S Riaz, S Naseem and SK Chakarvarti
13. "Surface passivation of Ti/4H-SiC Schottky barrier diode", *Communications in Theoretical Physics* 58, (2012) 577-582
M Khalid M, S Riaz and S Naseem S **1.049**
14. "Enhanced infrared to visible upconversion emission in Er³⁺ doped phosphate glass: Role of silver nanoparticles", *Journal of Luminescence*, 132 (2012) 2714-2718
RJ Amjad, MR Sahar, SK Ghoshal, MR Dousti, S Riaz and BA Tahir **2.367**
15. "Optical Investigation of Sm³⁺ Doped Zinc- Lead-phosphate glass", *Chinese Physics Letters*, 29 (2012) 087304
RJ Amjad, MR Sahar, SK Ghoshal, MR Dousti, S Riaz and BA Tahir **0.924**
16. "Controlled nanostructuring of multiphase core-shell nanowires by a template-assisted electrodeposition approach" *Nanotechnology*, 23 (30) (2012) 305601
S Dawei, J Chen, S Riaz, W Zhou and XF Han **3.979**
17. "Study of impact ionization in the 3D FinFET structure by varying channel doping concentration at higher temperature using SYNOPSIS TCAD", *Advanced Science Letters*, 19 (2013) 753
A Bukhtiar, MA Mustafa, M Umer, M Khalid, S Riaz, S Naseem **1.253**
18. "Theoretical Investigation of Breakdown Voltage in Normally-On 4H-SiC VJFET", *Advanced Science Letters*, 19 (2013) 820
M Khalid, S Riaz and S Naseem **1.253**
19. "Annealing Time Dependent Up-conversion Luminescence Enhancement in Magnesium-Tellurite Glass" *Journal of Luminescence*, 136 (2013) 145 **2.367**
RA Amjad, MR Sahar, SK Ghosal, MR Dousti, S Riaz, AR Samavatia, R Arifina, S Naseem
20. "A Study of PVD Deposited FeO Thin Films for Magnetic Applications", *Advanced Science Letters*, 19 (2013) 785
S Riaz , S Farooq and S Naseem **1.253**
21. "Structural, Electrical and Magnetic Properties of Iron Oxide Thin Films", *Advanced Science Letters*, 19 (2013) 828
S Riaz , A Akbar and S Naseem **1.253**
22. "Plasmon enhanced upconversion fluorescence in Er³⁺:Ag phosphate Glass: Effect of heat treatment", *Chinese Physics Letters*, 30 (2) (2013) 027301 **0.924**
RA Amjad, MR Sahar, SK Ghosal, MR Dousti, S Riaz AR Samavati, MNA Jamaluddin, S Naseem

23. "Designing and Simulation of Optoelectronic Devices using SYNOPSIS TCAD", *Advanced Science Letters*, 19 (2013) 496
M Azam, S Riaz, S Naseem **1.253**
24. "Optical and Structural Properties of ZnO Thin Films for Solar Cell Applications", *Advanced Science Letters*, 19 (2013) 834
MS Akhtar, R Noor, S Riaz and S Naseem **1.253**
25. "Spectroscopic investigation of rare-earth doped Phosphate glasses containing silver nanoparticles", *Acta Physica Polonica A*, 123 (2013) 7986 **0.604**
RA Amjad, MR Sahar, SK Ghosal, MR Dousti, S Riaz, AR Samavatia, BA Tahir
26. "Comparison study of impact ionization for FinFET and FD SOI device by using TCAD", *Advanced Science Letters*, 19 (2013) 780
A Bukhtiar, MA Mustafa, M Umer, M Khalid, S Riaz and S Naseem **1.253**
27. "Preparation and Characterization of Crack-Free Sol-Gel Based SiO₂-TiO₂Hybrid Nanoparticle Film", *Journal of Sol-Gel Science and Technology*, 68 (2013) 162 **1.660**
S Islam, RA Rahman, Z Othaman, S Riaz, MA Saeed, S Naseem
28. "Optical Properties of CdTe Films Prepared by Centrifugal Coating Technique", *Advanced Science Letters*, 19 (2013) 866
S Honey, MT Bhatti, S Riaz and S Naseem **1.253**
29. "Optical and Structural Properties of Evaporated Zn_xCd_{1-x}S (0≤x≤1) Thin Films", *Advanced Science Letters*, 19 (2013) 719
S Riaz , A Sajid, A Jamil and S Naseem **1.253**
30. "Structural and Optical Properties of Sol-Gel derived Zn_{1-x}Mn_xO Thin Films", *Advanced Science Letters*, 19 (2013) 789
MS Akhtar, S Hussain, S Riaz, S Naseem **1.253**
31. "Structural and magnetic properties of FeCoNi thin films", *Indian Journal of Physics*, 88 (2014) 165 **1.785**
ZN Kayani, S Riaz, S Naseem
32. "Structural and magnetic properties of thin films of iron nitride", *Sur. Rev. Lett.*, 21 (2014) 1450013 **0.500**
ZN Kayani, S Riaz, S Naseem
33. "Optical and structural properties of thin films of ZnO at elevated temperature", *Journal of Alloys and Compounds*, 606 (2014) 177 **2.999**
ZN Kayani, T Afzal, S Riaz and S Naseem
34. "Microbiological influenced corrosion attack by Bacillus Megaterium bacteria on Al-Cu alloy", *Materials Technology: Advanced Performance Materials*, 29 (2014) 269 **0.593**
KM Deen, M Yousaf, N Afzal, S Riaz, S Naseem, A Farooq and IM Ghauri
35. "Enhanced magnetic properties of Ca doped BiFeO₃ thin films by sol-gel method", *Indian Journal of Physics*, 88 (2014) 1037 **1.785**
S Riaz S, Majid F, Shah SMH and Naseem S

36. "Growth and characterization of iron oxide nano-crystalline thin films via sol-gel dip coating method", *IEEE Transactions on Magnetics*, 50 (2014) 2200304 **1.422**
ZN Kayani, ES Khan, F Saleemi, S Riaz and S Naseem
37. "Synthesis of iron oxide nanoparticles by sol-gel technique and their characterization", *IEEE Transactions on Magnetics*, 50 (2014) 2200404 **1.422**
ZN Kayani, S Arshad, S Riaz and S Naseem
38. "Ferromagnetic effects in Cr-doped Fe₂O₃ thin films", *IEEE Transactions on Magnetics*, 50 (2014) 2200704 **1.422**
S Riaz, A Akbar and S Naseem
39. "Effect of Fe³⁺/Fe²⁺ ratio on superparamagnetic behaviour of spin coated iron oxide thin films", *IEEE Transactions on Magnetics*, 50 (2014) 2200804 **1.422**
A Akbar, S Riaz, M Bashir and S Naseem
40. "Effect of solvents on the ferromagnetic behaviour of undoped BiFeO₃ prepared by sol-gel", *IEEE Transactions on Magnetics*, 50 (2014) 2200904 **1.422**
SMH Shah, S Riaz, A Akbar, S Atiq and S Naseem
41. "Magnetic, structural and dielectric properties of Bi_{1-x}K_xFeO₃ thin films using sol-gel method", *IEEE Transactions on Magnetics*, 50 (2014) 2201004 **1.422**
SMH Shah, A Akbar, S Riaz, S Atiq and S Naseem
42. "Magnetic properties of Fe₃O₄ stabilized zirconia", *IEEE Transactions on Magnetics*, 50 (2014) 2201104 **1.422**
M Bashir, S Riaz and S Naseem
43. "Magnetic and magnetization properties of Co-doped Fe₂O₃ thin films", *IEEE Transactions on Magnetics*, 50 (2014) 2201204 **1.422**
A Akbar, S Riaz, R Ashraf and S Naseem
44. "Effect of Bi/Fe ratio on the structural and magnetic properties of BiFeO₃ thin films by sol-gel", *IEEE Transactions on Magnetics*, 50 (2014) 2201304 **1.422**
S Riaz, SMH Shah, A Akbar, ZN Kayani and S Naseem
45. "Magnetic and magnetization properties of iron aluminium oxide thin films prepared by sol-gel", *IEEE Transactions on Magnetics*, 50 (2014) 2201404 **1.422**
S Riaz, M Azam, R Ashraf and S Naseem
46. "Microwave assisted iron oxide nanoparticles – structural and magnetic properties", *IEEE Transactions on Magnetics*, 50 (2014) 2201504 **1.422**
S Riaz, R Ashraf, A Akbar and S Naseem
47. "Controlled nanostructuring of multiphase core-shell iron oxide nanoparticles", *IEEE Transactions on Magnetics*, 50 (2014) 2300204 **1.422**
S Riaz, A Akbar and S Naseem
48. "Free growth of iron oxide nanostructures by sol-gel spin coating technique – structural and magnetic properties", *IEEE Transactions on Magnetics*, 50 (2014) 2301805 **1.422**
S Riaz, R Ashraf, A Akbar and S Naseem

49. “Structural, optical and magnetic properties of cobalt doped dip coated ZnO films”, *IEEE Transactions on Magnetics*, 50, 2014, 2401104 **1.422**
ZN Kayani, A Afzal, F Saleemi, S Riaz and S Naseem
50. “Structural and magnetic properties of Mn/Fe co-doped ZnO thin films prepared by sol-gel technique”, *IEEE Transactions on Magnetics*, 50 (2014) 2401204 **1.422**
R Ashraf, S Riaz, M Bashir, U Khan and S Naseem
51. “Novel method to synthesize highly conducting polyaniline-nickel sulphide nanocomposite films and the study of their structural, magnetic and electrical properties”, *IEEE Transactions on Magnetics*, 50 (2014) 2900204 **1.422**
A Batool, F Kanwal, A Abbas, S Riaz and S Naseem
52. “Iron oxide nanoparticles prepared by modified co-precipitation method”, *IEEE Transactions on Magnetics*, 50 (2014) 4003304 **1.422**
S Riaz, M Bashir and S Naseem
53. “Synthesis and characterization of hybrid matrix with encapsulated organic sensing dyes for pH sensing application”, *Journal of Industrial and Engineering Chemistry*, 20 (2014) 4408 **3.512**
S Islam, R Rahman, Z Othaman, S Riaz and S Naseem
54. “Structural and magnetic properties of the thin film of cobalt nitride”, *Surf. Rev. Lett.*, 21 (2014) 1450081 **0.500**
ZN Kayani, S Riaz and S Naseem
55. “Effect of Cu-Doped Nickel Ferrites on Structural, Magnetic, and Dielectric Properties” *IEEE Transactions on Magnetics*, 50 (2014) 2200504 **1.422**
S Anjum, A Rashid, F Bashir, S Riaz, M Pervaiz, R Zia
56. “Structural and magnetic studies on Zr doped ZnO diluted magnetic semiconductor” *Current Applied Physics*, 14 (2014) 176 **2.212**
G Murtaza, R Ahmad, MS Rashid, M Hassan, A Hussnain, MA Khan, ME Ul Haq, MA Shafique, S Riaz
57. “Characterization of copper oxide nanoparticles fabricated by the sol-gel method”, *Journal of Electronic Materials*, 44 (2015) 3704 **1.798**
ZN Kayani, M Umer, S Riaz and S Naseem
58. “Effects of pH on the crystallographic structure and magnetic properties of electro-deposited Co nano-wires”, *Journal of Magnetism and Magnetic Materials*, 377 (2015) 215 **2.002**
N Zafar, S Shamaila, R Sharif, H Wali, S Naseem, S Riaz and M Khaleeq-ur-Rahman
59. “Dip coated nickel zinc oxide thin films: structural, optical and magnetic investigations”, *Superlattices and Microstructures*, 77 (2015) 171 **2.097**
ZN Kayani, F Kiran, S Riaz, R Zia and S Naseem
60. “Optimising conditions for the growth of nanocrystalline ZnS thin films from acidic chemical baths”, *Materials Science in Semiconductor Processing*, 30 (2015) 292 **1.955**
MS Akhtar, MA Malik, S Riaz and S Naseem

61. "Structural, optical, magnetic and half-metallic studies of cobalt doped ZnS thin films deposited via chemical bath deposition", *Journal of Materials Chemistry C*, 3 (2015) 7228 MS Akhtar, YG Alghamdi, MA Malik, MRA Khalil, S Riaz and S Naseem **4.70**
62. "Structural, optical and magnetic properties of manganese zinc oxide thin films prepared by sol-gel dip coating method", *Superlattices and Microstructures*, 82 (2015) 472 **2.097** ZN Kayani, F Nazir, S Riaz and S Naseem
63. "Structural and electromagnetic behavior evaluation of Nd-doped lithium-cobalt nanocrystals for recording media applications", *Journal of Alloys and Compounds*, 639 (2015) 268 **2.999** ZA Gilani, MF Warsi, MN Anjum, I Shakir, S Naseem, S Riaz, MA Khan
64. "Synthesis of stabilized zirconia hollow nanoparticles: sugar as a template", *J. Sol-Gel Sci. Technol.*, 74 (2015) 275 **1.660** S Riaz, M Bashir and S Naseem
65. "Fe₃O₄ stabilized zirconia: structural, mechanical and optical properties", *J. Sol-Gel Sci. Technol.*, 74 (2015) 281 **1.660** M Bashir, S Riaz and S Naseem
66. "Effects of organic additives on dental zirconia ceramics: structural and mechanical properties", *J. Sol-Gel Sci. Technol.*, 74 (2015) 290 **1.660** M Bashir, S Riaz, ZN Kayani and S Naseem
67. "Controlled nanostructuring of TiO₂ nanoparticles: a sol-gel approach", *J. Sol-Gel Sci. Technol.*, 74 (2015) 299 **1.660** S Riaz and S Naseem
68. "Microwave-assisted sol-gel synthesis of BiFeO₃ nanoparticles", *J. Sol-Gel Sci. Technol.*, 74 (2015) 310 **1.660** F Majid, S Riaz and S Naseem
69. "Magnetic and magnetization properties of iron oxide thin films by microwave assisted sol-gel route", *J. Sol-Gel Sci. Technol.*, 74 (2015) 320 **1.660** A Akbar, S Riaz, R Ashraf and S Naseem
70. "Effect of Mn doping on structural, dielectric and magnetic properties of BiFeO₃ thin films", *J. Sol-Gel Sci. Technol.*, 74 (2015) 329 **1.660** S Riaz, SMH Shah, A Akbar, S Atiq and S Naseem
71. "Structural, magnetic and dielectric properties of spinel MgFe₂O₄ by sol-gel route", *J. Sol-Gel Sci. Technol.*, 74 (2015) 340 **1.660** M Azam, S Riaz, A Akbar and S Naseem
72. "Sol-gel synthesis and investigation of structural, electrical and magnetic properties of Pb doped La_{0.1}Bi_{0.9}FeO₃ multiferroics", *J. Sol-Gel Sci. Technol.*, 74 (2015) 352 **1.660** I Ghafoor, SA Siddiqi, S Atiq, S Riaz and S Naseem
73. "Structural and dielectric properties of boron doped and un-doped mullite thin films", *J. Sol-Gel Sci. Technol.*, 74 (2015) 368 **1.660** S Islam, R Rahman, S Riaz, S Naseem and Z Ottoman

74. “Room temperature ferromagnetism and half metallicity in nickel doped ZnS: Experimental and DFT studies”, *Materials Chemistry and Physics*, 160 (2015) 440 **2.259**
MS Akhtar, MA Malik, S Riaz and S Naseem
75. “Nanocrystalline $\text{Zn}_{1-x}\text{Co}_{0.5x}\text{Ni}_{0.5x}\text{Fe}_2\text{O}_4$ ferrites: Fabrication via co-precipitation route with enhanced magnetic and electrical properties”, *J. Mag. Mag. Mater.*, 393 (2015) 56 **2.002**
A Hassan, MA Khan, M Shahid, M Asghar, I Shakir, S Naseem, S Riaz and MF Warsi
76. “Chemical bath deposition of Fe-doped ZnS thin films: Investigations of their ferromagnetic and half-metallic properties”, *Materials Science in Semiconductor Processing*, 39 (2015) 283 **1.955**
MS Akhtar, MA Malik, YG Alghamdi, KS Ahmad, S Riaz and S Naseem
77. “Synthesis and characterization of multilayered sol-gel based plastic-clad fiber optic pH sensor”, *Journal of Industrial and Engineering Chemistry*, 23 (2015) 140 **3.512**
S Islam, RA Rahman, ZB Othaman, S Riaz and S Naseem
78. “Mesoporous $\text{SiO}_2\text{-TiO}_2$ nanocomposite For pH sensing”, *Sensors and Actuators B – Chemical*, 221 (2015) 993 **4.097**
S Islam, N Bidin, S Riaz, RA Rahman, S Naseem and FM Marsin
79. “Fabrication and properties of zinc oxide thin films prepared by sol-gel dip coating method”, *Mater. Sci.-Poland*, 33 (2015) 515 **0.507**
ZN Kayani, N Iqbal, S Riaz, R Zia and S Naseem
80. “Uptake and clearance analysis of technetium^{99m} labelled iron oxide nanoparticles in a rabbit brain”, *IET Nanobiotechnology*, 9 (2015) 136 **1.723**
M Nadeem, M Ahmed, MA Saeed, A Shaari, S Riaz, S Naseem and K Rashid
81. “Utilizing the anti-ferromagnetic functionality of a multiferroic shell to study exchange bias in hybrid core-shell nanostructures”, *Nanoscale*, 7 (2015) 13398 **7.760**
SS Ali, WJ Li, K Javed, DW Shi, S Riaz, Y Liu, YG Zhao, GJ Zhai and XF Han
82. “Synthesis and investigating the magnetic properties of magnetite nanocrystals for drug delivery”, *Mod. Phys. Lett. – B*, 29 (2015) 1550122 **0.746**
MZ Ansar, S Atiq, S Riaz, S Naseem, SM Ramay and A Mahmood
83. “Enhanced exchange bias and improved ferromagnetic properties in permalloy- $\text{BiFe}_{0.9}\text{Co}_{0.05}\text{O}_3$ core-shell nanostructures”, *Scientific Reports*, 5 (2015) 18203 **5.578**
K Javed, W Li, SS Ali, DW Shi, U Khan, S Riaz and XF Han
84. “Effect of calcination on structural and magnetic properties of Co-doped ZnO nanostructures” *IEEE Trans. Mag.* 51(11) (2015) 2400804 **1.422**
S Riaz, M Bashir, MA Raza, A Mahmood and S Naseem

85. "Investigation of Magnetic Anisotropy in Cobalt Chromium (CoCr_{0.5}Fe_{1.5}O₄) Spinel Ferrite Thin Films" *Journal of Superconductivity and Novel magnetism*, 28 (2015) 3147 **0.909**
S Anjum, A Salman, MS Rafique, R Zia, S Riaz and H Iqbal
86. "Exchange bias in two-step artificially grown one-dimensional hybrid Co-BiFeO₃ core-shell nanostructures" *Nanotechnology*, 27(4) (2016) 045708 **3.573**
SS Ali, WJ Li, K Javed, DW Shi, S Riaz, GJ Zhai, XF Han
87. "Fabrication and temperature dependent magnetic properties of nickel nanowires embedded in alumina templates" *Ceramics International*, 41(9), (2015) 12081 **2.605**
N Adeela, K Maaz, U Khan, S Karim, M Ahmad, M Iqbal, S Riaz, XF Han and M Maqbool
88. "Magnetic response of hybrid ferromagnetic and antiferromagnetic core-shell nanostructures" *Nanoscale*, 8(11) (2016) 6064-6070 **7.760**
U Khan, WJ Li, N Adeela, M Irfan, K Javed, CH Wan, S Riaz, XF Han
89. "Deposition of porous titanium oxide thin films as anti-fogging and anti-reflecting medium" *OPTIK*, 127(12) (2016) 5124-5127 **0.769**
ZN Kayani, Z Saleem, S Riaz, S Naseem, F Saleemi
90. "Ion beam irradiation-induced nano-welding of Ag nanowires" *Micro & Nano Letters*, 11(1) (2016) 34-37 **0.853**
H Shehla, A Ishaq, Y Khan, I Javaid, S Riaz, S Naseem, M Mazza
91. "Crystal growth of antimony substituted cobalt ferrites thin films deposited by electron beam" *OPTIK*, 127(20) (2016) 8487-8498 **0.769**
S Anjum, A Shabab, S Rafique, R Zia, S Riaz, S Hameed, M Riaz
92. "Sol-gel-based single and multilayer nanoparticle thin films on low-temperature substrate poly-methyl methacrylate for optical applications", *Journal of Sol-Gel Science and Technology*, 77(2) (2016) 396-403 **1.550**
S Islam, N Bidin, Z Haider, S Riaz, S Naseem, MA Saeed, FM Marsin
93. "Sol-gel based fiber optic pH nanosensor: Structural and sensing properties", *Sensors and Actuators A-Physical*, 238 (2016) 8-18 **2.201**
S Islam, N Bidin, Z Haider, S Riaz, S Naseem, MA Saeed, FM Marsin
94. "Sol-gel based phenolphthalein encapsulated heterogeneous silica-titania optochemical pH nanosensor" *Journal of Industrial and Engineering Chemistry*, 34 (2016) 258-268 **4.179**
S Islam, N Bidin, S Riaz, S Naseem
95. "Structural, optical and magnetic properties of aluminum doped MnZnO films deposited by dip coating", *Journal of Alloys and Compounds*, 662 (2016) 489-496 **3.014**
ZN Kayani, A Munir, S Riaz, S Naseem
96. "Correlation between structural and optical properties of surfactant assisted sol-gel based mesoporous SiO₂-TiO₂ hybrid nanoparticles for pH sensing/optochemical sensor", *Sensors and Actuators B-Chemical*, 225 (2016) 66-73 **4.758**
S Islam, N Bidin, S Riaz, S Naseem, FM Marsin
97. "Size- and Shape-Dependent Antibacterial Studies of Silver Nanoparticles Synthesized by Wet Chemical Routes" *Nanomaterials*, 6(4) (2016) 74 **2.690**

98. "Gold Nanoparticles: An Efficient Antimicrobial Agent against Enteric Bacterial Human Pathogen", *Nanomaterials*, 6(4) (2016) 71
S Shamaila, N Zafar, S Riaz, R Sharif, J Nazir, S Naseem **2.690**
99. "Structural and Magnetic Properties of Chemically Synthesized Pd-Modified NiFe₂O₄ Nanoparticles", *Chinese Journal of Chemical Physics*, 29(2) (2016) 245-248
S Atiq, SM Ramay, A Mahmood, S Riaz, S Naseem **0.496**
100. "Multilayer crack-free hybrid coatings for functional devices", *Journal of Nanophotonics*, 10(2) (2016) 026026
S Islam, N Bidin, S Riaz, S Naseem, MM Sanagi, M Imran **1.488**
101. "Correlation between particle size and magnetic characteristics of Mn-substituted ZnFe₂O₄ Ferrites", *Superlattices and Microstructures*, 93 (2016) 50-56 **2.117**
S Zawar, S Atiq, S Riaz, S Naseem
102. "Magnetic Properties of Polyvinyl Alcohol and Doxorubicine Loaded Iron Oxide Nanoparticles for Anticancer Drug Delivery Applications", *PLOS ONE*, 11(6) (2016) e0158084 **3.234**
M Nadeem, M Ahmad, MS Akhtar, A Shaari, S Riaz, S Naseem, M Masood, MA Saeed
103. "Role of Zn substitution on structural, magnetic and dielectric properties of Cu-Cr spinel ferrites", *Indian Journal of Physics*, 90(8) (2016) 869-880
S Anjum, H Nazli, R Khurram, T Zeeshan, S Riaz, A Usman **1.166**
104. "Magneto-electric characteristics in (Mn, Cu) co-doped BiFeO₃ Multiferroic Nanoparticles", *Journal of Materials Science: Materials in Electronics*, 27(9) (2016) 8966-8972 **2.019**
A Khalid, S Atiq, SM Ramay, A Mahmood, GM Mustafa, S Riaz, S Naseem
105. "Carriers Mediated Magnetic and Impedance Spectroscopic Analysis of Sol-Gel Synthesized Zn_{0.95-x} Mn_(x) Fe_{0.05}O DMSs", *Journal of Sol-Gel Science and Technology*, 79(3) (2016) 535-542 **1.550**
MS Shafiq, M Furqan, S Atiq, SM Ramay, M Saleem, S Riaz, S Naseem
106. "Sol-gel based optically active phenolphthalein encapsulated nanomaterials for sensing application", *Journal of Sol-Gel Science and Technology*, 79(3) (2016) 616-627 **1.550**
S Islam, N Bidin, S Riaz, G Krishnan, S Daud, S Naseem, FM Marsin
107. "Enhanced Microwave Absorption Properties of CTAB Assisted Pr-Cu Substituted Nanomaterial" *Journal of Magnetism and Magnetic Materials*, 414 (2016) 198-203 **2.357**
I Sadiq, S Naseem, S Riaz, HM Khan, MN Ashiq, SS Hussain, MZ Rana
108. "Structural, Optical, and Dielectric Properties of Aluminum Oxide Nanofibers Synthesized by a Lower-Temperature Sol-Gel Approach", *Journal of Electronic Materials*, 45(10) (2016) 5185-5197 **1.579**
S Riaz, Sajid-Ur-Rehman, M Abutalib, S Naseem

109. “Mesoporous nanocomposite coatings for photonic devices: sol-gel approach”, *Applied Physics A-Materials Science & Processing*, 122(10) (2016) 935 **1.444**
S Islam, N Bidin, S Riaz, LP Suan, S Naseem, MM Sanagi
110. “Fabrication and Characterization of $\text{Ni}_{1+x}\text{Zr}_x\text{Fe}_{2-2x}\text{O}_4$ Nanoparticles for Potential Applications in High Frequency devices”, *Ceramics International*, 42(14) (2016) 16359-16363 **2.758**
M Dilshad, S Nazim, MF Warsi, M Shahid, S Naseem, S Riaz, I Shakir, S Haider, MA Khan
111. “Magnetic and Dielectric Investigations of Mn-Doped Ba Hexaferrite Nanoparticles by Hydrothermal Approach”, *Journal of Electronic Materials*, 45(11) (2016) 5853-5859
N Adeela, U Khan, M Iqbal, S Riaz, H Ali, K Maaz, S Naseem **1.491**
112. “Structural and magnetic response of Mn substituted Co-2 Y-type barium hexaferrites”, *Journal of Alloys and Compounds*, 686 (2016) 1017-1024 **3.014**
N Adeela, U Khan, M Iqbal, S Riaz, M Irfan, H Ali, K Javaid, I Bukhtiar, K Maaz, S Naseem
113. “Structural and Complex impedance spectroscopic studies of Mg- substituted CoFe_2O_4 ” *Ceramics International*, 42(16) (2016) 18271-18282 **2.758**
A Zahoor, S Atiq, SK Abbas, SM Ramay, S Riaz S and S Naseem
114. “Effect of Aluminum Doping Concentration on Optical, Magnetic and Microstructural properties of MnZnO thin films”, *Optik-International Journal for Light and Electron Optics*, 144 (2017) 172-179 **0.835**
ZN Kayani, T Kausar, S Riaz, S Naseem
115. “Substituted Mg–Co-nanoferrite: recyclable magnetic photocatalyst for the reduction of methylene blue and degradation of toxic dyes”, *Journal of Materials Science: Materials in Electronics* 28 (2) (2017) 2250-2256 **2.019**
H Assi, S Atiq, SM Rammay, NS Alzayed, M Saleem, S Riaz, S Naseem
116. “Synthesis and characterization of Ni NPs-doped silica -titania nanocomposites: Structural, optical and photocatalytic properties”, *Applied Physics A – Materials Science and Process*, 123(1) (2017) 67 **1.455**
S Islam, N Bidin, SS Osman, G Krishnan, AA Salim, S Riaz, LP Suan, S Naseem,
117. “Low temperature sol-gel based erbium doped mullite nanoparticles: Structural and optical properties”, *Journal of the Taiwan Institute of Chemical Engineers*, 70 (2017) 366-373
S Islam, N Bidin, S Riaz, S Naseem, MM Sanag **4.217**
118. “Synthesis and characterization of room temperature sol–gel-assisted transparent tin-doped magnesium oxide nanoparticles’ protective coating” *Journal of Sol-Gel Science and Technology*, 81(2) (2017) 623-631 **1.575**
S Islam, N Bidin, MA Saeed, S Riaz, MAA Bakar, S Naseem, KN Abbas, MM Sanagi
119. “Fabrication, Morphology, Structural and Magnetic Properties of electrodeposited Fe_3Pt Nanowires and nanotubes” *Journal of Magnetism and Magnetic Materials*, 424 (2017) 410-415 **2.630**
U Khan, N Adeela, W Li, M Irfan, K Javed, S Riaz, XF Ha

120. "Synthesis and investigation of structural, morphological, magnetic, dielectric and impedance spectroscopic characteristics of Ni-Zn ferrite nanoparticles" *Ceramics International*, 43(2) (2017) 2486-2494 **2.986**
S Atiq, M Majeed, A Ahmad, SK Abbas, M Saleem, S Riaz, S Naseem
121. "Structural and Magnetic Investigations of Cr Substituted NiFe₂O₄ Nanostructures", *Journal of Alloys and Compounds*, 698 (2017) 228-233 **3.933**
M Azam, N Adeela, U Khan, S Riaz, M Iqbal and S Naseem
122. "Structural and morphological properties of Zn_{1-x}Zr_xO with room-temperature ferromagnetism and fabricated by using the co-precipitation technique", *Journal of the Korean Physical Society*, 70(5) (2017) 460-464 **0.467**
M Hassan, R Irfan, S Riaz, S Naseem, SS Hussain, G Murtaza
123. "Surfactant and template free synthesis of porous ZnS nanoparticles" *Materials Chemistry and Physics*, 189 (2017) 28-34 **2.084**
MS Akhtar, S Riaz, RF Mehmood, KS Ahmad, Y Alghamdi, MA Malik, S Naseem
124. "Effect of Co doping on the Physical Properties of Co-doped ZnO nanoparticles", *Journal of Materials Science: Materials in Electronics*, 28(8) (2017) 5953-5961 **2.019**
ZN Kayani, I Shah, S Riaz, S Naseem
125. "Role of Ni²⁺ Ions in Magnetite Nano-particles Synthesized by Co-precipitation Method", *Journal of Superconductivity and Novel Magnetism*, 30(5) (2017) 1177-1186 **1.180**
S Anjum, H Saleem, K Rasheed, R Zia, S Riaz, A Usman
126. "Study of Nickel Nitride Thin Films Deposited by Sol-Gel Route", *Transactions of the Indian Institute of Metals*, 70(4) (2017) 1097-1101 **0.533**
ZN Kayani, S Riaz, S Naseem
127. "Room temperature ferromagnetism in single-phase Zn_{1-x}Mn_xS diluted magnetic semiconductors fabricated by co-precipitation technique", *Applied Physics A-Materials Science & Processing*, 123(5) (2017) 352 **1.455**
M Hassan, S Younas, F Sher, SS Husain, S Riaz, S Naseem
128. "Characteristics of Al-doped ZnO:Ni Films grown on Glass by Sol-gel Dip coating technique" *Journal of Saudi Chemical Society*, 21(4) (2017) 425-433 **2.887**
ZN Kayani, F Naz, S Riaz, S Naseem
129. "Thermally activated variations in conductivity and activation energy in SrMnO₃" *Journal of Materials Science: Materials in Electronics*, 28(10) (2017) 7171-7176 **2.019**
SK Abbas, S Atiq, S Riaz, S Naseem
130. "Effect of cobalt doping on crystallinity, stability, magnetic and optical properties of magnetic iron oxide nano-particles", *Journal of Magnetism and Magnetic Materials*, 432 (2017) 198-207 **2.630**
S Anjum, R Tufail, K Rashid, R Zia, S Riaz
131. "Structural and dielectric study of nano-crystalline single phase Sn 1- x NiZxS(x (Ni)= 0-10%) showing room temperature ferromagnetism", *Progress in Natural Science: Materials International*, 27(3) (2017) 303-310 **2.038**

- 132.** “Structural, dielectric and ferromagnetic properties of nano-crystalline Co-doped SnS”, *Journal of Materials Science*, 52(12) (2017) 7369-7381 **2.599**

B Parveen, M Hassan, S Atiq, S Riaz, S Naseem, S Zaman

- 133.** “Fabrication and characterization of nanocrystalline Al, Co: ZnO thin films by a sol–gel dip coating”, *Optical and Quantum Electronics*, 49(6) (2017) 223 **1.055**

ZN Kayani, R Ishaque, B Zulfiqar, S Riaz, S Naseem

- 134.** “Study of Structural, magnetic and microwave absorption properties of Dy-Mn substituted nanosized material in X-band frequency range”, *Journal of Alloys and Compounds*, 715 (2017) 284-290 **3.133**

I Sadiq, S Naseem, S Riaz, SS Hussain, HM Khan, MN Ashiq, M Rana

- 135.** “Study of the Structural and Electronic Properties of FeO at the LDA and GGA Level”, *Chinese Journal of Physics*, 55(4) (2017) 1135-1141 **0.514**

R Ashraf, T Mahmood, S Riaz, S Naseem

- 136.** “Investigation of Stability and Magnetic Properties of Ni-and Co-Doped Iron Oxide Nanoparticles”, *Journal of Superconductivity and Novel Magnetism*, 30(8) (2017) 2291-2301 **1.180**

S Anjum, R Tufail, H Saleem, R Zia, S Riaz

- 137.** “Effect of Zr substitution on Structural, morphological and Magnetic Properties of bismuth iron oxide phases”, *Chinese Physics B*, 26(8) (2017) 087502 **1.321**

A Asif, M Hassan, S Riaz, S Naseem, SS Hussain

- 138.** “Temperature Dependent Phase Formation, Surface Morphological and Magnetic Studies of Bismuth Iron Oxide Grown by Co-precipitation Method”, *J Supercond Nov Magn*, 30(9) (2017) 2549-2554 **1.180**

A Abid, M Hassan, SS Hussain, S Riaz, S Naseem

- 139.** Optical, magnetic and structural properties of Cr-doped ZnO Thin Films by Sol-gel dip-coating method” *Materials Research Express*, 4(9) (2017) 096403 **1.068**

ZN Kayani, M Siddiq, S Riaz, S Naseem

- 140.** “Self-Assembled Hierarchical Phenolphthalein Encapsulated Silica Nanoparticles: Structural, Optical and Sensing Response”, *Sensors and Actuators A-Physical*, 266 (2017) 111-121 **2.499**

S Islam, N Bidin, S Riaz, S Naseem

- 141.** “Influence of annealing temperature on the structural, optical, and magnetic properties of two-phase MnZnO_x ($x=1, 3$) thin films grown by a sol-gel method”, *Journal of the Australian Ceramic Society*, 53(2) (2017) 863-874 **0.744**

ZN Kayani, SS Naqvi, S Riaz, S Naseem, S Iram

- 142.** “Properties of NiZnO Thin Films with Different Amounts of Al Doping” *Journal of Electronic Materials*, 46(10) (2017) 5764-5772 **1.579**

ZN Kayani, G Fatima, B Zulfiqar, S Riaz and S Naseem

143. “Thermally Assisted Electro-Active Regions in SrMnO₃ Ceramics” *Materials and Chemistry and Physics*, 200 (2017) 128-135 **2.084**
SK Abbas, S Atiq, S Riaz, SM Ramay, S Naseem
144. “Structural, Magnetic, Dielectric and bonding Properties of BiMnO₃ grown by co-precipitation technique” *Results in Physics*, 7 (2017) 3190-3195 **0.946**
S Hanif, M Hassan, S Riaz, S Atiq, SS Hussain, S Naseem, G Murtaza
145. Structural, Optical and Magnetic Properties of Nanocrystalline Co-Doped ZnO Thin Films Grown by Sol–Gel, *Zeitschrift für Naturforschung A (A Journal of Physical Sciences)* 73(1) (2017) 13-21 **0.886**
ZN Kayani, I Shah, B Zulfiqar, S Riaz, S Naseem, A Sabah
146. Synthesis of optically active bromophenol blue encapsulated mesoporous silica–titania nanomatrix: structural and sensing characteristics, *Journal of Sol-Gel Science and Technology* 85(1) (2018) 231-242 **1.745**
S Islam, N Bidin, S Riaz, S Naseem
147. Structural, Surface morphological and Magnetic Studies of ZnFe_xS (–0.10) Diluted Magnetic semiconductors grown By co-precipitation method, *Surface Review and Letters*, 25(1) (2018) 1850044 **0.734**
M Hassan, M Ghazanfar, N Arooj, S Riaz, SS Hussain, S Naseem
148. Crack-free high surface area silica-titania nanocomposite coating as opto-chemical sensor device, *Sensors and Actuators A: Physical*, 270 (2018) 153-161 **2.311**
S Islam, H Bakhtiar, N Bidin, AA Salim, S Riaz, G Krishnan, S Naseem
149. Tunable structural and electrical impedance properties of pyrochlores based Nd doped lanthanum zirconate nanoparticles for capacitive applications, *Ceramics International*, 44(2) (2018) 2170-2177 **3.057**
GM Mustafa, S Atiq, SK Abbas, S Riaz, S Naseem
150. A comparative study of graphene growth by APCVD, LPCVD and PECVD, *Materials Research Express*, 5(3) (2018) 035606 **1.151**
Z Ullah, S Riaz, Q Li, S Atiq, M Saleem, M Azhar, S Naseem, L Liu
151. Investigation of Fe doping on the magnetic and optical properties of ZnO thin films, *Materials Research Express*, 5(3) (2018) 036418 **1.151**
ZN Kayani, N Yaseen, S Riaz, S Naseem
152. Thermal tuning of electrical and dielectric characteristics of Mn-doped Zn_{0.95}Fe_{0.05}O dilute magnetic semiconductors, *Journal of Materials Science: Materials in Electronics*, 29(5) (2018) 3943-3951 **2.324**
S Zaineb, S Atiq, A Mahmood, SM Ramay, S Riaz, S Naseem
153. Sol–gel based thermally stable mesoporous TiO₂ nanomatrix for fiber optic pH sensing, *Journal of Sol-Gel Science and Technology*, 86(1) (2018) 42-50 **1.745**
S Islam, H Bakhtiar, N Bidin, S Riaz, S Naseem

154. Oscillatory Giant Magnetoresistance of Electrodeposited Fe/Cu/Ni Multilayered Structures—Effect of Non-Magnetic and Magnetic Layer Thicknesses, *IEEE Transactions on Magnetics*, 54(8) (2018) 2001110 **1.467**
S Saher, M Khaleeq-ur-Rahman, F Arshad, S Riaz, S Naseem
155. Surface functionality and optical properties impact of phenol red dye on mesoporous silica matrix for fiber optic pH sensing, *Sensors and Actuators A: Physical*, 276 (2018) 267-277 **2.311**
S Islam, H Bakhtiar, S Naseem, MSBA Aziz, N Bidin, S Riaz, J Ali
156. Probe of ZrTiO₂ thin films with TiO₂-ZrO₂ binary oxides deposited by dip coating technique, *Journal of Photochemistry and Photobiology B: Biology*, 183 (2018) 357-366
ZN Kayani, A Kamran, Z Saddique, S Riaz, S Naseem **3.165**
157. Effect of in-situ oxidation on structure and ferromagnetic properties of Fe₃Al and FeAl₂O₄ thin films prepared by electrodeposition, *Ceramics International*, 44(8) (2018) 9550-9560 **3.450**
F Mukhtar, ZN Kayani, S Riaz, S Naseem
158. Effect of Ni-Mn ratio on structural, martensitic and magnetic properties of Ni-Mn-Co-Ti ferromagnetic shape memory alloys, *Materials Research Express*, 5(8) (2018) 086102
N ul Hassan, IA Shah, M Jelani, M Naeem, S Riaz, S Naseem, F Xu, Zakauallah **1.151**
159. Effect of Cu doping on the structural, magnetic and optical properties of ZnO thin films, *Applied Physics A*, 124(7) (2018) 468 **1.784**
ZN Kayani, S Iram, R Rafi, S Riaz, S Naseem
160. Optical CO₂ gas sensing based on TiO₂ Thin Films of diverse thickness decorated with silver nanoparticles, *Advances in materials Science and Engineering*, 2018a (2018) 2780203 **1.372**
MA Raza, A Habib, Z Kanwal, SS Hussain, MJ Iqbal, M Saleem, S Riaz, Shahzad Naseem
161. Investigation of physical properties of SnS: Fe diluted magnetic semiconductor nanoparticles for spintronic applications, *Journal of Magnetism and Magnetic Materials*, 460 (2018) 111-119 **3.046**
B Parveen, M Hassan, S Riaz, S Atiq, S Naseem, M Irfan, MF Iqbal
162. Preparation and characterization of doubly substituted microwave absorbing material by sol-gel technique for super high frequency applications, *Progress in Natural Science: Materials International*, 28(4) (2018) 478-482 **2.739**
I Sadiq, S Naseem, S Riaz, SS Hussain, MN Ashiq, M Rana
163. CR incorporation in mesoporous silica matrix for fiber optic pH sensing, *Sensors and Actuators A: Physical*, 280 (2018) 429-436 **2.311**
S Islam, H Bakhtiar, MSBA Aziz, MB Duralim, S Riaz, S Naseem, M bin Abdullah, SS Osman
164. Honey mediated microwave assisted sol–gel synthesis of stabilized zirconia nanofibers, *Journal of Sol-Gel Science and Technology*, 87(3) (2018) 554-567 **1.745**
BS Bukhari, M Imran, M Bashir, S Riaz, S Naseem

165. Influence of organic pH dyes on the structural and optical characteristics of silica nanostructured matrix for fiber optic sensing, *Sensors and Actuators A: Physical*, 282 (2018) 28-38
S Islam, H Bakhtiar, MB Duralim, HHJB Sapongi, S Riaz, S Naseem, NB Musa, LP Suan, M bin Abdullah **2.739**
166. Room temperature stabilized TiO₂ doped ZrO₂ thin films for teeth coatings–A sol-gel approach, *Journal of Alloys and Compounds*, 767 (2018) 1238-1252 **4.175**
SB Bukhari, M Imran, M Bashir, S Riaz, S Naseem
167. Tunable Structural and Electrical Impedance Properties of Ordered and Disordered Iron Oxide Phases for Capacitive Applications, *Ceramics International*, 44(14) (2018) 16352-16364 **3.45**
ZH Shah, S Riaz, S Atiq, S Naseem
168. Electronic and Structural Properties of Phase-Pure Magnetite Thin Films: Effect of Preferred Orientation, *Journal of Electronic Materials*, 47(11) (2018) 6613-6624 **1.566**
M Imran, A Akbar, S Riaz, S Atiq, S Naseem
169. Biological and optical properties of sol-gel derived ZnO using different percentages of silver contents, *Colloids and Surfaces B: Biointerfaces*, 171 (2018) 383-390 **3.997**
ZN Kayani, M Anwar, Z Saddiqe, S Riaz, S Naseem
170. Influence of ZnO doping on structural, optical and pH-stimulus characteristics of silica-titania nanocomposite matrix, *Journal of Saudi Chemical Society*, 22(7) (2018) 826-837 **2.759**
S Islam, H Bakhtiar, N Bidin, AA Salim, S Riaz, KN Abbas, LP Suan, S Naseem
171. Grown of highly porous ZnO-nanoparticles by pulsed laser ablation in liquid technique for sensing applications, *Journal of the Australian Ceramic Society*, 55 (2019) 765-771 **0.7**
S Islam, H Bakhtiar, KN Abbas, S Riaz, S Naseem, ARB Johari
172. Synthesis of NiO nanoparticles by sol-gel technique, *Materials Science-Poland*, 36 (2018) 547-552 **0.854**
ZN Kayani, MZ Butt, S Riaz, S Naseem
173. Photocatalytic, antibacterial, optical and magnetic properties of Fe-doped ZnO nanoparticles prepared by sol-gel, *Materials Science in Semiconductor Processing*, 88 (2018) 109-119 **2.593**
ZN Kayani, E Abbas, Z Saddiqe, S Riaz, S Naseem
174. Synthesis of bone implant substitutes using organic additive based zirconia nanoparticles and their biodegradation study, *Journal of the mechanical behavior of biomedical materials*, 88 (2018) 48-57 **3.239**
M Bashir, S Riaz, ZN Kayani, S Naseem

175. Role of co-doping on structural, optical and magnetic properties of nano-crystalline ZnO thin films, *Materials Research Express*, 6(3) (2019) 036404 **1.929**
ZN Kayani, S Iram, S Riaz, S Naseem
176. Laser surface hardening of gun metal alloys, *Materials*, 12(16) (2019) 2632 **3.057**
S Naeem, T Mehmood, KM Wu, BS Khan, A Majid, K Siraj, A Mukhtar, A Saeed, S Riaz,
177. Design and analysis of normally ON 4H-SiC vertical junction field effect transistor (VJFET) using sentaurus TCAD simulations, *Journal of Ovonic Research*, 15(5) (2019) 335-343 **0.701**
M Khalid, JK Khan, G Mustafa, MS Akhtar, ZA Gilani, HMN Ul Huda, S Riaz, S Naseem
178. Tunable properties of rare earth elements(Ce, Dy, La and Pr) substituted R-type hexagonal ferrites, *Journal of Materials Science: Materials in Electronics*, 30(21) (2019) 19394-19403 **2.220**
AB Javaid, I Sadiq, H Shah, M Idress, S Saeed, S Hussain, M Shahbaz, SS Jan, S Riaz, S Naseem, HM Khan, F Sadiq
179. Influence of Al percentage on the magnetic, optical, and structural properties of Al-doped CoZnO thin films, *Journal of the Australian Ceramic Society*, 55(2) (2019) 479-487
ZN Kayani, B Zulfiqar, S Riaz, S Naseem **1.307**
180. Anomalous dielectric behavior and correlation of barrier hopping mechanism with ferroelectricity in solvent assisted phase pure bismuth iron oxide nanoparticles, *Materials Research Bulletin*, 119 (2019) 110543 **4.109**
M Tahir, S Riaz, N Ahmad, U Khan, S Atiq, MJ Iqbal, S Naseem
181. Correlation of La-mediated structural transition and dielectric relaxation in Bi₂Mg₂/3Nb₄/3O₇ pyrochlores, *Ceramics International*, 45(12) (2019) 14576-14585 **3.830**
A Hassan, GM Mustafa, SK Abbas, S Atiq, M Saleem, S Riaz, S Naseem
182. Role of Barium Substitution on Oxygen Vacancy Reduction in BiFeO₃ Thin Films, *Journal of Materials Science-Materials in Electronics*, 30(14) (2019) 13305-13320 **2.220**
M Tahir, S Riaz, N Ahmad, SS Hussain, M Saleem, S Naseem
183. Structure and Optical Properties of TiO₂ Thin Films Prepared by a Sol-Gel Processing, *Zeitschrift für Naturforschung A*, 74(7) (2019) 635-642 **1.355**
ZN Kayani, M Saleem, S Riaz, S Naseem, F Saleemi
184. Optical properties and antibacterial activity of V doped ZnO used in solar cells and biomedical applications, *Materials Research Bulletin*, 115 (2019) 121-129 **4.019**
ZN Kayani, H Bashir, S Riaz, S Naseem
185. Influence of Al percentage on the magnetic, optical, and structural properties of Al-doped CoZnO thin films, *Journal of the Australian Ceramic Society*, 55(2) (2019) 479-487
ZN Kayani, B Zulfiqar, S Riaz, S Naseem **1.307**
186. Microwave assisted synthesis and antimicrobial activity of Fe₃O₄-doped ZrO₂ nanoparticles, *Ceramics International*, 45(8) (2019) 10106-10113 **3.830**

- 187.** Synthesis and characterization of silver nanoparticle-decorated cobalt nanocomposites (Co@ AgNPs) and their density-dependent antibacterial activity, *Royal Society Open Science*, 6(5) (2019) 182135 **2.647**

Z Kanwal, MA Raza, S Riaz, S Manzoor, A Tayyeb, I Sajid, S Naseem

- 188.** BPB dye confined growth of surfactant-assisted mesostructured silica matrix fiber optic sensing tracers, *Journal of Saudi Chemical Society*, 23(4) (2019) 427-438 **3.517**

S Islam, H Bakhtiar, Z Haider, S Riaz, S Naseem, K Chaudhary, LP Suan, SS Usman, MS bin A Aziz

- 189.** Highly stable dielectric frequency response of chemically synthesized Mn-substituted ZnFe_2O_4 , *Journal of Saudi Chemical Society*, 23(4) (2019) 417-426 **3.517**

S Zawar, S Atiq, M Tabasum, S Riaz, S Naseem

- 190.** Structural tuning of dielectric properties of Ce-substituted $\text{Nd}_2\text{Zr}_2\text{O}_7$, *Journal of Saudi Chemical Society*, 23(4) (2019) 397-406 **3.517**

GM Mustafa, M Saleem, S Atiq, S Riaz, SA Siddiqi, S Naseem

- 191.** Structural and magnetic properties of nano-crystalline FeCoNiN thin films, *Journal of Saudi Chemical Society*, 23(4) (2019) 392-396 **3.517**

ZN Kayani, S Riaz, S Iram, S Naseem

- 192.** Ferromagnetic ordering and electromagnons in microwave synthesized BiFeO_3 thin films, *Journal of Magnetism and Magnetic Materials*, 475 (2019) 60-69 **2.717**

W Azeem, S Riaz, A Bukhtiar, SS Hussain, YB Xu, S Naseem

- 193.** Investigation of structural, optical and magnetic characteristics of Co_3O_4 thin films, *Applied Physics A*, 125 (2019) 196 **1.810**

ZN Kayani, S Arshad, S Riaz, S Naseem

- 194.** Magnetically driven robust polarization in $(1-x) \text{BiFeO}_3\text{-}x\text{PbTiO}_3$ multiferroic composites, *Materials Letters*, 238 (2019) 10-12 **3.204**

M Sufyan, S Atiq, SK Abbas, M Younis, S Riaz, S Naseem

- 195.** Molarity dependent oscillatory structural and magnetic behavior of phase pure BiFeO_3 thin films: Sol-gel approach, *Ceramics International*, 45(4) (2019) 5111-5123 **3.830**

A Awan, M Nadeem, S Riaz, SS Hussain, F Majid, S Naseem

- 196.** Realization of Magnetostructural Transition and Magnetocaloric Properties of Ni-Mn-Mo-Sn Heusler Alloys, *Journal of Superconductivity and Novel Magnetism*, 32(3) (2019) 659-665 **1.244**

IA Shah, N Hassan, S Riaz, S Naseem, F Xu, Z Ullah

- 197.** Tuning of opto-electrical properties of hematite thin films using Co^{2+} doping, *Journal of Materials Science: Materials in Electronics*, 30(4) (2019) 4203-4218 **2.220**

H Yousaf, SM Muzaffar, S Riaz, N Ahmad, S Shahzadi, S Naseem

198. Tuning of optical and antibacterial characteristics of ZnO thin films: Role of Ce content, *Ceramics International*, 45(3) (2019) 3930-3939 **3.830**
ZN Kayani, S Sahar, S Riaz, S Naseem
199. A Comparative Assessment of Nanotoxicity Induced by Metal (Silver, Nickel) and Metal Oxide (Cobalt, Chromium) Nanoparticles in *Labeo rohita*, *Nanomaterials*, 9(2) (2019) 309 **4.324**
Z Kanwal, MA Raza, F Manzoor, S Riaz, G Jabeen, S Fatima, S Naseem
200. On the Operational, shelf life and degradation mechanism in polymer field effect transistors, *Superlattices and Microstructures*, 126 (2019)125-131 **2.120**
MJ Iqbal, H Haq, S Riaz, MA Raza, MZ Iqbal, MU Chaudhry, S Naseem
201. Role of Precursor to Solvent Ratio in Tuning the Magnetization of Iron Oxide Thin Films – A Sol-Gel Approach, *Journal of Magnetism and Magnetic Materials*, 471 (2019) 14-24 **2.717**
A Akbar, H Yousaf, S Riaz, S Naseem
202. Optically active-thermally stable multi-dyes encapsulated mesoporous silica aerogel: A potential pH sensing nanomatrix, *Microporous and Mesoporous Materials*, 274 (2019) 183-189 **4.551**
S Islam, H Bakhtiar, WNW Shukri, MSAbd Aziz, S Riaz, S Naseem
203. Investigation of structural, electrical, electrical polarization and dielectric properties of CTAB assisted Ni²⁺ substituted R-type nano-hexaferrites, *Journal of Alloys and Compounds*, 770 (2019) 1112-1118, 2019 **4.650**
T Amjad, I Sadiq, AB Javaid, S Riaz, S Naseem, M Nadeem
204. Fluoride ion assisted growth of hierarchical flowerlike nanostructures of Co/Ni ferrites and their magnetoresistive response, *RSC Advances*, 9(31) (2019) 17581-17590 **3.119**
SK Abbas, S Atiq, M Saleem, S Riaz, S Naseem, MS Anwar
205. In vivo anti-proliferative activity of silver nanoparticles against *Pseudomonas aeruginosa* in freshwater *Labeo rohita*, *Applied Nanoscience*, 9(8) (2019) 2039-2049 **2.880**
Z Kanwal, MA Raza, F Manzoor, M Arshad, F Rashid, S Riaz, S Pervaiz
206. Thermally Stable Polypyrrole/Hematite Composites with Tunable Dielectric and Magnetic Properties, *Polymer Science, Series A*, 61(1) (2019) 112-117 **0.968**
A Batool, F Kanwal, S Asim, S Riaz, S Atiq, S Naseem, MW Mushtaq, Z Ullah
207. Optically active phenolphthalein encapsulated gold nanodendrites for fiber optic pH sensing, *Applied Surface Science*, 485 (2019) 323-331 **6.182**
S Islam, H Bakhtiar, M Aziz, S Riaz, MSAbd Aziz, S Naseem, N Elshikeri
208. Mesoporous anatase based opto-chemical sensor, *Materials Science in Semiconductor Processing*, 100 (2019) 236-244 **3.085**
S Islam, H Bakhtiar, M Aziz, S Riaz and S Naseem
209. Structural and Magnetization Crossover in Electrodeposited FeAl₂O₄ – Effect of In-Situ Oxidation, *RSC Advances*, 9(65) (2019) 38183-38194 **3.119**

210. Dielectric dispersion in CoFe₂O₄/PVDF nanocomposites influenced by ceramic contents and thermal mediation, *Journal of Materials Science: Materials in Electronics*, 30 (2019) 19289-19301 **2.220**
M Arshad, AR Khan, GM Mustafa, S Atiq, MA Raza, S Riaz, S Naseem
211. Stirring Mediated Anomalous Dielectric behaviour of electrodeposited & in-situ oxidized FeAl₂O₄ Thin Films, *Journal of Materials Science: Materials in Electronics*, 31(1) (2020) 814–831 **2.478**
A Awan, S Riaz, AF Butt, N Ahmad, Z Ahmad and S Naseem
212. Antimicrobial Activity of Citric Acid functionalized Iron Oxide Nanoparticles – Superparamagnetic Effect, *Ceramics International*, 46(8) (2020) 10942-10951
Sidra Khan, ZH Shah, S Riaz, N Ahmad, S Islam, MA Raza, and S Naseem **4.527**
213. Magneto-Dielectric Properties of In-Situ Oxidized Magnesium-Aluminium Spinel Thin Films using Electrodeposition, *Ceramics International*, 46(7) (2020) 8588-8600
H Nazli, S Riaz, F Iqbal, R Anjum, ZN Kayani, S Naseem **4.527**
214. Antibacterial Performance of Glucose-Fructose added MW based Zirconia Coatings – Possible Treatment for bone infection, *Journal of Mechanical Behavior of Biomedical Materials*, 104 (2020) 103621 **3.902**
I Sanaullah, BS Bukhari, T Batool, S Riaz, AN Sabri, HN Khan, S Naseem
215. Peculiar magnetic behavior and structural, electrical, dielectric properties of substituted R-type hexagonal ferrites, *Journal of Magnetism and Magnetic Materials*, 499 (1) (2020) 166309 **2.993**
M. Shahbaz, I. Sadiq, MMH Butt, AB Javaid, M. Idrees, S. Hussain, F. Sadiq, S. Riaz, S. Naseem, HM Khan
216. Tailoring of optical, biological and magnetic properties of nanocrystalline Fe doped TiO₂ thin films, *Materials Research Express*, 6(12) (2020) 1250h2 **1.929**
ZN Kayani, I Wahid, Z Saddiqe, S Riaz, S Waseem and S Naseem
217. Enhancement in the mobility of solution processable polymer based FET by incorporating graphene interlayer, *Superlattices and Microstructures*, 137 (2020) 106331
MZ Iqbal, S Khan, A Rehman, SS Haider, MA Kamran, MRA Karim, T Alharbi, T Hussain, S Riaz, S Naseem, MJ Iqbal **2.658**
218. Magnetic and antibacterial studies of sol-gel dip coated Ce doped TiO₂ thin films: Influence of Ce contents, *Ceramics International*, 46(1) (2020) 381-390
ZN Kayani, Maria, S. Riaz, S Naseem **4.527**
219. Solvent mediated phase stability and temperature dependent magnetic modulation in BiFeO₃ nanoparticles, *Journal of Magnetism and Magnetic Materials*, 503 (2020) 166563 **2.993**
M Tahir, S Riaz, SS Hussain, A Awan, YB Xu, S Naseem
220. Dip-coated V doped ZnO thin films: Dielectric and magnetic properties, *Ceramics International*, 46(10) (2020) 14605-14612 **4.527**

- 221.** Role of Mn in biological, optical, and magnetic properties ZnO nano-particles, *Applied Physics A*, 126 (2020) 197 **2.584**
ZN Kayani, M Anjum, S Riaz, S Naseem, T Zeeshan
- 222.** Colossal Dielectric Constant and Ferroelectric Investigation of BaTiO₃ Nano-Ceramics, *Journal of Materials Science: Materials in Electronics*, 31 (2020) 5402–5415 **2.478**
N Humera, S Riaz, N Ahmad, F Arshad, R Zafar, S Ali, S Idrees, H Noor, S Atiq, S Naseem
- 223.** Enhanced Structural and Magnetic Ordering in as-Synthesized Ca Doped Bismuth Iron Oxide Nanoceramics” *Journal of Alloys and Compounds*, 832 (2020) 154725 **5.316**
M Tahir, S Riaz, U Khan, SS Hussain, A Nairan, A Akbar, M Saleem, S Atiq, S Naseem
- 224.** Microwaves assisted tuning of optical and magnetic properties of Zinc Oxide Nanorods - Efficient antibacterial and photocatalytic Agent, *Journal of Sol-Gel Science and Technology*, 95 (2020) 88-100 **2.326**
SM Muzaffar, S Naeem, S Yaseen, S Riaz, ZN Kayani, S Naseem
- 225.** Silica-titania nanocomposite based fiber optic sensor for aromatic hydrocarbons detection, *Optics Communications*, 471 (2020) 125825 **2.31**
S Islam, H Bakhtiar, Z Haider, A Alshoaibi, S Riaz, S Naseem
- 226.** La³⁺-substituted β -ferrite: Investigation of structural, dielectric, FTIR and electrical polarization properties, *Journal of Alloys and Compounds*, 831 (2020) 154854 **5.316**
S Saeed, I Sadiq, S Hussain, M Idrees, F Sadiq, S Riaz, S Naseem
- 227.** Dielectric and Magnetic Properties of Rare-Earth Metal Ce-Doped ZnO Thin Films, *Journal of Electronic Materials*, 49 (2020) 3114–3123 **1.938**
ZN Kayani, T Chaudhry, S Riaz, S Naseem
- 228.** Effect of capping agent on microwave assisted sol-gel synthesized zirconia coatings for optical applications, *OPTIK*, 222 (2020) 165297 **2.443**
Hassan Yousaf, M Azhar, Mahwish Bashir, Saira Riaz, ZN Kayani, Shahzad Naseem
- 229.** Microwave-Assisted Green Synthesis and Characterization of Silver Nanoparticles, Using Melia azedarach for the Management of Fusarium Wilt in Tomato, *Frontiers in Microbiology*, 11 (2020) 238(1-22) **5.640**
H Ashraf, T Anjum, S Riaz, S Naseem
- 230.** Thermally stable Au decorated silica-titania mesoporous nanocomposite for pH sensing evaluation, *Applied Surface Science*, 521 (2020) 146329 **6.707**
S Islam, H Bakhtiar, A Alshoaibi, S Riaz, S Naseem
- 231.** Microwave Assisted Sol-Gel Synthesis of Bioactive Zirconia Nanoparticles – Correlation of Strength and Structure, *Journal of Mechanical Behavior of Biomedical Materials*, 112 (2020) 104012 **3.902**
Batool, T., Bukhari, B.S., Riaz, S., Batoo, K.M., Raslan, E.H. Hadi, M. & Naseem, S.

- 232.** Simultaneous normal – anomalous dielectric dispersion and room temperature ferroelectricity in CBD perovskite BaTiO₃ thin films, *Journal of Materials Research and Technology*, 9(5) (2020) 11439-11452 **5.039**
S Khan, N Humera, S Niaz, S Riaz, S Atiq, S Naseem
- 233.** Assessment of antibacterial and optical features of sol-gel dip coated La doped TiO₂ thin films, *Materials Chemistry and Physics*, 250 (1) (2020) 123217 **4.094**
ZN Kayani, S Rahim, R Sagheer, S Riaz, S Naseem
- 234.** Ultrasensitive piezoresistive strain sensors based on CNTs/Ag-NPs coated highly stretchable textile, *Journal of Materials Science: Materials in Electronics*, 31 (2020) 9870 – 9877 **2.478**
M Altaf, B Rehman, A Rehman, NI Sonil, S Atiq, S Riaz, S Naseem & Z Ullah
- 235.** Efficient energy storage and fast switching capabilities in Nd-substituted La₂Sn₂O₇ pyrochlores, *Chemical Engineering Journal*, 396 (2020) 125198
A Quader, GM Mustafa, SK Abbas, H Ahmad, S Riaz, S Naseem, S Atiq **13.273**
- 236.** Effect of post-deposition annealing temperature on the charge carrier mobility and morphology of DPPDTT based organic field effect transistors, *Chemical Physics Letters*, 750 (2020) 137507 **2.328**
T Afzal, MJ Iqbal, MZ Iqbal, A Sajjad, MA Raza, S Riaz, M A Kamran, A Numan, S Naseem
- 237.** Synthesis of Ni₈₀Fe₂₀ permalloy antidots for high storage ferroelectric memories, *Materials Letters*, 271 (2020) 127852 **3.423**
SK Abbas, M Saleem, S Naseem, S Riaz, S Atiq
- 238.** Comparison of optical constants of sputtered MoS₂ and MoS₂/Al₂O₃ composite thin films, *Journal of Materials Science: Materials in Electronics*, 31 (2020) 7753–7759
T Iqbal, M Saleem, S Riaz, S Naseem, SK Abbas, SM Ramay, S Atiq **2.478**
- 239.** Transparent boron-doped zinc oxide films for antibacterial and magnetic applications, *Journal of Materials Science: Materials in Electronics*, 31 (2020) 11911 - 11926
ZN Kayani, Z Bashir, S Riaz, S Naseem, Z Saddique **2.478**
- 240.** Theoretical and experimental investigation of microwave absorbing X-type hexaferrites nanomaterial synthesized by cotton soaked method, *IEEE Transactions on Magnetics*, 56 (8) (2020) 2200110 **1.70**
I Sadiq, F Sadiq, A Shahzad, A Sadiq, HM Khan, S Naseem, S Riaz
- 241.** Analysis of recoverable and energy loss density mediated by Ni/Cr co-doping in BiFeO₃, *Journal of Materials Science: Materials in Electronics*, 31 (2020) 14775 – 14783
S Arif, S Saba, GM Mustafa, M Akhtar, M Saleem, S Riaz, S Atiq **2.478**
- 242.** Fast responsive thermally stable silica microspheres for sensing evaluation: sol-gel approach, *Journal of Sol-Gel Science and Technology*, 96 (2020) 614-626 **2.326**
S Islam, H Bakhtiar, A Alshoaibi, Z Haider, S Riaz, S Naseem
- 243.** CNTs/ZnO and CNTs/ZnO/Ag multilayers spray coated on cellulose fiber for use as an efficient humidity sensor, *Ceramics International*, 46 (16) (2020) 25593-25597 **4.527**
B Kalim, MT Ansar, Z Ullah, SK Abbas, S Riaz, SA Siddiqi, S Atiq

- 244.** Antibacterial, magnetic, optical and dielectric analysis of novel La_2O_3 doped ZnO thin films, *Optical Materials*, 109 (2020) 110287 **3.08**
ZN Kayani, B Amir, S Riaz, S Naseem
- 245.** *In-Vitro* Hemolytic Activity and Free Radical Scavenging by Sol-Gel Synthesized Fe_3O_4 Stabilized ZrO_2 Nanoparticles, *Arabian Journal of Chemistry*, 13 (11) (2020) 7598-760
M Imran, S Riaz, SMH Shah, T Batool, HN Khan, AN Sabri, S Naseem **5.165**
- 246.** Ethylene glycol assisted three-dimensional floral evolution of BiFeO_3 -based nanostructures with effective magneto-electric response, *Royal Society Open Science*, 7 (2020) 200642
SK Abbas, GM Mustafa, M Saleem, M Sufyan, S Riaz, S Naseem, S Atiq **2.83**
- 247.** Enhanced magnetic, antibacterial and optical properties of Sm doped ZnO thin films: Role of Sm doping, *Optical Materials*, 108 (2020) 110457 **3.08**
ZN Kayani, M Sahar, S Riaz, S Naseem, Z Saddiqe
- 248.** Exploration of structural, optical, dielectric properties and curve fittings of Yb^{3+} -substituted β -type hexagonal ferrites, *Journal of Materials Science: Materials in Electronics*, 31 (2020) 17931-17942 **2.478**
S Hussain, I Sadiq, SS Jan, M Idrees, F Sadiq, S Riaz & S Naseem
- 249.** Biosynthesis, characterization and anti-dengue vector activity of silver nanoparticles prepared from *Azadirachta indica* and *Citrullus colocynthis*, *Royal Society Open Science*, 7 (2020) 200540 **2.83**
S Rasool, MA Raza, F Manzoor, Z Kanwal, S Riaz, MJ Iqbal, S Naseem
- 250.** Dielectric and magnetic properties of dilute magnetic semiconductors Ag-doped ZnO thin films, *Applied Physics A*, 126 (2020) 559 **2.584**
ZN Kayani, A Usman, H Nazli, R Sagheer, S Riaz, S Naseem
- 251.** Structural and antimicrobial response of chitosan capped gold nanostructures employing two different synthetic routes, *Optical Materials*, 112 (2021) 110741 **3.08**
S Islam, H Bakhtiar, M Safwan, A Aziz, A Alshoaibi, Z Haider, SNS Yaacob, S Riaz, S Naseem
- 252.** Microwave assisted synthesis of Fe_3O_4 stabilized ZrO_2 nanoparticles – Free radical scavenging, radiolabeling and biodistribution in rabbits, *Life Sciences*, 271 (2021) 119070
I SanaUllah, M Imran, S Riaz, T Amin, IU Khan, R Zahoor, A Shahid, S Naseem **5.037**
- 253.** Dielectric and magnetic response of iron oxide nanoparticles embedded in unsaturated polyester resin, *Physica B: Condensed Matter*, 602 (2021) 412554 **2.436**
H Noor, MW Hanif, S Latif, Z Ahmad, S Riaz, S Naseem
- 254.** Spin Polarization and Magneto-Electric Coupling in Al-Modified Thin Iron Oxide Films – Microwave Assisted Sol-Gel Route, *Journal of Industrial and Engineering Chemistry*, 103, July 2021, 49-66 **6.064**
S Khalid, S Riaz, S Naeem, A Akbar, SS Hussain, YB Xu, S Naseem

- 255.** Biodistribution of Iron Oxide stabilized ^{99m}Tc - ZrO_2 nanoparticles in Rabbit using Honey as a capping agent – Microwave assisted sol-gel Approach, *Journal of Sol-Gel Science and Technology*, 98 (2021) 95-112. **2.326**
M Imran, S Riaz, T Batool, A Qamar, IU Khan, R Zahoor, A Shahid, S Naseem
- 256.** CNTs embedded in layered Zn-doped Co_3O_4 nano-architectures as an efficient hybrid anode material for SIBs, *Journal of Alloys and Compounds*, 867 (2021) 158730
S Zavar, M Akbar, GM Mustafa, G Ali, S Riaz, S Atiq, KY Chung **5.316**
- 257.** Tangerine mediated synthesis of zirconia as potential protective dental coatings, *Materials Science and Engineering: C*, 120 (2021) 111653 **7.328**
I Sanaullah, M Bashir, T Batool, S Riaz, D Ali. AN Sabri, S Naseem
- 258.** Antibacterial, magnetic and dielectric properties of nano-structured V doped TiO_2 thin films deposited by dip coating technique, *Materials Chemistry and Physics*, 267 (2021) 124659. **4.094**
ZN Kayani, T Intizar, S Riaz, S Naseem
- 259.** Structural, optical and magnetic properties of ZnO nanoparticles tailored by ' La^{3+} ' ions, *Optik - International Journal for Light and Electron Optics*, 244 (2021) 166816 **2.443**
R Sagheer, S Tul Khadija, ZN Kayani, S Riaz
- 260.** Sol-Gel Synthesized Boron nitride (BN) Thin Films for Antibacterial and Magnetic Applications, June 2021, *Optik - International Journal for Light and Electron Optics*, 243 (2021) 167502 **2.443**
ZN Kayani, Z Bashir, M Mohsin, S Riaz, Shahzad Naseem
- 261.** Structural confirmation and elucidation of Optical, Photo-catalytic and Antibacterial properties of Cerium doped Bi_2O_4 , *Journal of Physics and Chemistry of Solids*, 155 (2021) 110104 **3.995**
ZN Kayani, HA Shafiq, S Riaz, S Naseem
- 262.** Inhibition mechanism of green-synthesized copper oxide nanoparticles from *Cassia fistula* towards *Fusarium oxysporum* by boosting growth and defense response in tomatoes, *Environmental Science: Nano*, 8 (2021) 1729-1748 **8.131**
H Ashraf, T Anjum, S Riaz, IS Ahmad, J Irudayaraj, S Javed, U Qaiser, S Naseem
- 263.** Impact of interfacial trap states on achieving bias stability in polymer field-effect transistors, *Microelectronic Engineering*, 247 (2021) 111602 **2.523**
MJ Iqbal, MZ Iqbal, T Afzal, MA Raza, K Saghir, MA Raza, S Atiq, S Riaz, S Naseem
- 264.** Thermally stable and fast responsive mesoporous cresol red functionalized silica and titania nanomaterials: fiber optic pH sensors, *Journal of Sol-Gel Science and Technology*, 99 (2021) 497-511. **2.326**
S Islam, MS Aziz, H Bakhtiar, SW Harun, S Riaz & S Naseem
- 265.** Optically functionalized hierarchical hematite assembled silica-titania nanocomposites for hydrocarbon detection: Fiber optic chemical sensor, *Microporous and Mesoporous Materials*, 326 (2021) 111398. **5.455**
S Islam, MS Aziza, H Bakhtiar, A Alshoaibi, SW Harun, S Riaz, S Naseem

- 266.** Effect of pH on phenolphthalein immobilized gold nanoparticles/nanostructures for pH sensing evaluations: sol–gel method, *Journal of Sol-Gel Science and Technology*, 100 August 2021, 192-204 **2.326**
S Islam, H Bakhtiar, S Riaz, S Naseem
- 267.** Experimental and theoretical studies: Impact of Mg-Yb double substitution on structural, dielectric and electrical properties of nanoferrites, *Materials Science and Engineering: B*, 273, November 2021, 115435 **4.051**
M Idrees, I Sadiq, S Hussain, F Saqib, M Javaid, S Riaz and S Naseem
- 268.** Flexible and disposable ultrasensitive liquid sensors based on CNTs and CNTs/ZnO-NPs spray-coated cellulose fiber frameworks, *Microelectronic Engineering*, 250, 15 October 2021, 111638 **2.523**
Z Ullah, A Rehman, B Rehman, M Altaf, NI Sonil, S Atiq, M Saleem, M Azhar, S Riaz and S Naseem
- 269.** Toxicity Evaluation of Arsenic Nanoparticles on Growth, Biochemical, Hematological, and Physiological Parameters of Labeo rohita Juveniles, *Advances in Materials Science and Engineering*, Vol. 2021, Article ID 5185425, (<https://doi.org/10.1155/2021/5185425>) **1.726**
MA Raza, Z Kanwal, A Shahid, S Fatima, A Sajjad, S Riaz, S Naseem
- 270.** Thermally stable mesoporous pH dyes encapsulated titania nanocomposites for opto-chemical sensing, *Materials Research Bulletin*, 146, February 2022, 111605 **4.641**
S Islam, A Alshoaibi, O Sabir, H Bakhtiat, S Riaz, S Naseem
- 271.** Analysis of the Nd dopant on optical, dielectric and biological properties of ZnO nanostructures, *Journal of the Mechanical Behavior of Biomedical Materials*, **3.902** 126, February 2022, 105016
M Anwar, ZN Kayani, A Hassan, R Sagheer, S Riaz, S Naseem
- 272.** Field Emission Properties and Ferromagnetic Exchange Interactions in γ -Fe₂O₃ and Fe₃O₄ Nanoneedles - Oleic Acid Assisted Growth, *Journal of Materials Science – Materials in Electronics*, 33, 7 Jan 2022, 4025-4042 **2.478**
ZH Shah, A Awan, S Riaz, SS Hussain, R Sagheer, ZN Kayani, S Naseem
- 273.** Role of Ca doping on oxygen vacancy production in modulating Dielectric, Ferroelectric and Magnetic Polarization in BaTiO₃ Thin Films, *Journal of Materials Research and Technology*, 16, January 2022, 993-1007 **5.289**
S Khan, S Riaz, F Arshad, M Azhar, N Ahmad, H Noor, S Atiq, S Naseem
- 274.** Dielectric and Ferroelectric Properties of X8R Perovskite Barium Titanate Nanorods for Application in MLCC, *Revisions submitted, Journal of Materials Science- Materials in Electronics*, 33 (2022) 7405-7422 **2.478**
N Humera, F Arshad, A Raza, M Akram, S Atiq, ZN Kayani, S Naseem, S Riaz
- 275.** Antifungal Potential of Green Synthesized Magnetite Nanoparticles Black Coffee–Magnetite Nanoparticles Against Wilt Infection by Ameliorating Enzymatic Activity and Gene Expression in Solanum lycopersicum L., *Frontiers in Microbiology*, 13, 3 March 2022, 754292 **5.640**
H Ashraf, T Batool, T Anjum, A Illyas, G Li, S Naseem, S Riaz

- 276.** Spin Reorientation and Magnetodielectric Anomalies in $\text{Fe}_x\text{O}_{1+x}$ ($x=2,3$) Thin Films- Effect of Microwave Radiations, *Journal of Magnetism and Magnetic Materials*, Available online 26 April 2022, 169359 **2.993**
S Khalid, A Awan, A Akbar, ZH Shah, A Farooq, MJ Iqbal, YB Xu, S Naseem, S Riaz
- 277.** Sustainable synthesis of microwave-assisted IONPs using *Spinacia oleracea* L. for control of fungal wilt by modulating the defense system in tomato plants, *Journal of Nanobiotechnology*, 20, (2022) 8 **10.435**
H Ashraf, T Anjum, S Riaz, T Batool, S Naseem, G Li
- 278.** Electrochemical performance and large positive–negative magnetodielectric coupling in iron chromite spinels, *Arabian Journal of Chemistry*, 15, June 2022, 103800 **5.165**
S Naeem, W Younas, A Awan, N Ahmad, M Javaid Iqbal, T Razzaq, M Azam, S Naseem, S Riaz
- 279.** Determination of dual magnetic phases and the study of structural, dielectric, electrical, surface morphological, optical properties of Ce^{3+} substituted hexagonal ferrites, *Journal of Alloys and Compounds*, 906, 15 June 2022, 164324 **5.316**
Z Hassan, I Sadiq, R Hussain, F Sadiq, M Idrees, S Hussain, S Riaz, S Naseem
- 280.** Vanadium modified di-bismuth tetra-oxide thin films; synthesis, characterization and properties, *Materials Chemistry and Physics*, 282, 15 April 2022, 125944 **4.094**
ZN Kayani A Altaf, R Sagheer, S Riaz, S Naseem
- 281.** Synthesis of bone implant substitutes using honey mediated zirconia and their biodegradation study – Effect of Microwave Powers, *Journal of Sol-Gel Science and Technology* (2022) **2.326**
S Riaz, MS Sabir, I Sanaullah, HN Khan, MA Raza, AN Sabri, S Naseem
- 282.** Magnetodielectric Coupling in Electrodeposited FeAl_2O_4 Nanostructures, *Journal of Materials Science – Materials in Electronics* (2022) **2.478**
A Awan, S Riaz, M Niaz, N Ahmad, S Naseem
- 283.** *In Vivo* Biodistribution, Antioxidant and Hemolysis Tendency of Superparamagnetic Iron oxide Nanoparticles – Potential Anticancer Agents, *Plos ONE* (2022) **3.240**
HN Khan, M Imran, I Sanaullah, S Riaz, IU Khan, AN Sabri, S Naseem

Non-IF Papers:

- 284.** “Phase Transition Study in $\text{Cu}(\text{In,Ga})\text{Se}_2$ Thin Films by X-ray Diffraction”, *ScienceInternational* 15, 2003, 99
S Riaz and S Naseem
- 285.** “Synthesis and Degradation of Nematic (N^*) Liquid Crystals”, *Journal of Physical and Natural Sciences*, SJI, Vol. 2, Issue 1 (2008) 1.
ZN Kiayani, S Riaz and S Naseem
- 286.** “Modeling and Designing of RF MEMS Switch Using ANSYS”, *Journal of Emerging Technologies, IEEE* (2008) 44.

287. “Deposition of Al₂O₃ Thin Films and Study of Their Structural, Optical, Photoconducting and Dielectric Properties”, *Sci. Inter. vol. 21*(2009) 1.

MH Bukhari, S Riaz and S Naseem

288. “Preparation of BiFeO₃ Films by Sol-Gel Technique and Their Characterization”, *Science International*, 23 (4) 255-258, 2011

ZN Kayani, S Riaz and S Naseem

289. “Enhanced Infrared to Visible Upconversion Emission in Er³⁺ Doped Phosphate Glass Containing Silver Nanoparticles”, *Advanced Materials Research* 501 (2012) 138-142

RJ Amjad, MR Sahar MR, Riaz S and Ghoshal SK

290. “Optical Properties of Alumina Thin Films by using Spectroscopic Ellipsometer” *Applied Mechanics and Materials*, 319 (2013) 84

F Majid, S Riaz and S Naseem

291. “Optimizing the preparation conditions of Co-doped SrFe₁₂O₁₉ and investigating its structural and dielectrical properties”, *Sci. Int.*, 25, 2013, 63

F Altaf, S Atiq, S Riaz and S Naseem

292. “A Study of Deposition, Characterization and Growth Conditions of Carbon Nanostructures on Stainless Steel (201), *Nanoscience and Nanotechnology*, 3 (2013) 96-103

F Iqbal, S Riaz, A Sadiqa, S Naseem

293. “Structural characteristics of Ni⁺-implanted AlN thin film” *Surface Topography: Metrology and Properties*, 2 (2014) 035007 (8pp)

M Ishaq, M Husnanin, S Riaz and S Naseem

294. “Indexing the structural parameters and investigating the electrical properties of La doped Sr-hexaferrites”, *Materials Science & Engineering*, 50 (2014) 012045

M Azim, S Atiq, S Riaz and S Naseem

295. “Indexing the structural parameters and investigating the electrical properties of La doped Sr-hexaferrites”, *Mater. Sci. Engg.*, 60, 2014, 012045

M Azim, S Atiq, S Riaz and S Naseem

296. “Effect of high temperature on the impact ionization of n-channel fully depleted SOI MOSFET”, *International Journal of Engineering Works*, 1, 2014, 48

K Ullah, S Riaz, M Habib, F Abbas, S Naseem and G Abbas

297. “Friction and Wear Assessment of Yttria Stabilised Zirconia Thermal Barrier Coatings Produced by Plasma Spraying Method” *Journal of Faculty of Engineering & Technology* 22 (1), 1-6 (2015)

M Farooq, A Imran, S Alam, S Naseem, S Riaz, SF Shaukat

298. Pulsed laser deposition of SmCo thin films for MEMS applications, *Journal of Applied Research and Technology* 14 (5), 287-292, 2016

- 299.** “Structural and Optical Properties of Surfactant Assisted SiO₂-TiO₂ Hybrid Matrix for pH Sensing: Sol-Gel Approach”, Jurnal Teknologi, 78, 3, 211-215, MAR 2016
S Islam, N Bidin, S Riaz, S Naseem
- 300.** “Effect of Ba-substitution at Sr-site on the structural and dielectric characteristics of SrMnO₃”, Nucleus, 52, 2015, 155
M Amir, S Atiq, GM Mustafa, S Riaz and S Naseem
- 301.** “Dielectric and magnetic characterization of sol-gel synthesized SrMnO₃ perovskite”, Nucleus, 52, 2015, 200
K Abbas, S Atiq, S Riaz and S Naseem
- 302.** “Dielectric characterization of XAl₂O₄ (X=Mg, Zn, Ni) spinel ceramics”, Nucleus, 52, 2015, 204
M Azam, S Atiq, GM Mustafa, S Riaz and S Naseem
- 303.** “BiFeO₃ thin films – structural and dielectric properties”, Sci. Inter., 27, 2015, 3077
SMH Shah, S Riaz, S Atiq, SM Ramay, and S Naseem
- 304.** “Structural and dielectric properties of La doped BiFeO₃ thin films”, Sci. Inter., 27, 2015, 3081
SMH Shah, S Riaz, S Atiq, SM Ramay and S Naseem
- 305.** “Friction and wear assessment of yttria stabilised zirconia thermal barrier coatings produced by plasma spraying method”, Journal of Faculty of Engineering & Technology, 22, 2015, 1
M Farooq, A Imran, S Alam, S Naseem, S Riaz and SF Shaukat
- 306.** “Effect of channel doping concentration on the impact ionization of n-channel fully depleted SOI MOSFET”, International Journal of Engineering Works, 2, 2015, 1
K Ullah, S Riaz, M Habib, F Abbas, S Naseem, I Shah and A Bukhtiar
- 307.** “Room-temperature ferromagnetism in Ni-doped TiO₂ diluted magnetic semiconductor thin films”, Journal of Applied Research and Technology 15 (2), 132-139 2017
B Parveen, Z Khalid, S Riaz, S Naseem
- 308.** “Preparation and characterization of dip coated cobalt oxide thin films”, Materials Research Innovations, Accepted 02 Mar 2018, Published online: 12 Mar 2018, 1-7
ZN Kayani, A Shahzadi, S Riaz, S Naseem
- 309.** “Dependence of Lattice Distortion and Dielectric Response of Zinc Aluminate on Milling Frequency”, Key Engineering Materials 778, 217-224, 2018
H Noor, S Riaz, MM Iram, A Siddiqi, S Naseem
- 310.** “Analysis of Electric Transport Mechanism of Barium Titanate by Impedance Spectroscopy”, Key Engineering Materials 778, 206-211, 2018
N Humera, H Noor, S Riaz, S Naseem,

311. Preparation of BiFeO₃ Films by Sol-Gel Technique and Their Characterization, Iraqi Journal of Applied Physics, 15, Issue 1, (2019) 9-12
ZN Kayani, S Riaz, S Naseem
312. Preparation and characterization of dip coated cobalt oxide thin films, *Materials Research Innovations*, 23(5) (2019) 253-259
ZN Kayani, A Shahzadi, S Riaz, S Naseem
313. Fabrication and characterization of superhydrophobic coatings on cotton fabrics using silica nanoparticles for self-cleaning applications, *World Journal of Advanced Research and Reviews*, 08(03) (2020) 032-039
K Zakir, SSM Shahzadi, S Rasool, Z Kanwal, S Riaz, S Naseem and MA Raza

Presentations at National conferences/meetings/Symposia (34+2)

INVITED TALKS AT NATIONAL LEVEL (2)

1. Invited Talk on “Nanotechnology Research at CSSP”, National Meeting on Nanotechnology Research in Pakistan, COE in Solid State Physics, Punjab University, Lahore, August 03, 2010.
2. Invited Talk on ”Iron Oxide Nanostructures for Advanced Applications”, Workshop on Nanomaterials and Their Applications, Lahore College for Women University, Lahore, April 19, 2012
3. “Phase Transition Study in Cu(In,Ga)Se₂ Thin Films by X-ray Diffraction”, *Presented at 3rd International Science Conference, University of Arid Agriculture, Murree Road, Rawalpindi, 2002*
Co-authors: Naseem S
4. “Aluminium Oxide Thin Films - A Novel Approach”, *Presented at 3rd International Science Conference, University of Arid Agriculture, Murree Road, Rawalpindi, 2002*
Co-authors Bokhari MH and Naseem S
5. “Preparation of Aluminium Nitride Thin Films by Post-Deposition Reaction”, *Presented at 3rd International Science Conference, University of Arid Agriculture, Murree Road, Rawalpindi, 2002*
Co-authors: Ashfaq M and Naseem S
6. “Carbon Nanostructures – Initial Results”, *Presented at Conference on Nano-Science and Technology, COMSATS Headquarters, Islamabad, June, 2005*
Co-author: Naseem S
7. “Silica Thin Films by Sol-Gel Technique”, *Presented at Conference on Nano-Science and Technology, COMSATS Headquarters, Islamabad, June, 2005*
Co-authors: Naseem S, Hussain K and Nisa MU
8. “Sol-Gel Preparation of Titania Thin Films”, *Presented at Conference on Nano-Science and Technology, COMSATS Headquarters, Islamabad, June, 2005*

Co-authors: Naseem S, Khan B and Raza R

9. "Alumina Thin Films by Sol-Gel Technique", *Presented at Conference on Nano-Science and Technology, COMSATS Headquarters, Islamabad, June, 2005*
Co-authors: Naseem S, Khan B, Ashraf F, Hussain K and Kafayat SU
10. "Nanometer Sized Grains in CIGS Thin Films – An XRD Study", *Presented at Conference on Nano-Science and Technology, COMSATS Headquarters, Islamabad, June, 2005*
Co-authors: Naseem S and Ikram N
11. "Formation and Confirmation of Cholesterol based Liquid Crystals", *Presented at International Conference, Pakistan Institute of Physics, UET, Lahore, March 13 – 16, 2006*
Co-authors: Kiyani ZN and Naseem S
12. Mullite Transformation Kinetics in TiO₂- and B₂O₃-Doped Aluminum Silicate Gels", *Presented at International Conference, Pakistan Institute of Physics, UET, Lahore, March 13 – 16, 2006*
Co-authors: Islam S, Usman S and Naseem S
13. "Fabrication and Study of Various Absorbing Media Based Systems for Solar Thermal Generation of Energy" *Presented at International Conference, Pakistan Institute of Physics, UET, Lahore, March 13 – 16, 2006*
Co-authors: Imran M, Naseem S
14. "Deposition of Al₂O₃ Thin Films and Study of Their Structural, Optical, Photoconducting and Dielectric Properties", *Presented at International Conference, Pakistan Institute of Physics, UET, Lahore, March 13 – 16, 2006*
Co-authors: Bukhari MH and Naseem S
15. "Dependence of Structural Properties of CIGS Thin Films on Reaction Time at 250 °C & 450 °C", *Presented at International Conference, Pakistan Institute of Physics, UET, Lahore, March 13 – 16, 2006*
Co-authors: Hassan M and Naseem S
16. "Compositional and Structural Properties of Silica and Silicate Thin Films Prepared by Sol-Gel Techniques", *Presented at International Conference, Pakistan Institute of Physics, UET, Lahore, March 13 – 16, 2006*
Co-authors: Rafique M and Naseem S
17. "Preparation, Phase Transformation and Crack Alleviation in Sol-Gel Based Titania Films", *Presented at International Conference, Pakistan Institute of Physics, UET, Lahore, March 13 – 16, 2006*
Co-authors: Usman S, Islam S and Naseem S
18. "Synthesis & Preparation of PZT, BTO Compounds by SOL-GEL Method for Ferroelectric & Liquid Crystal Applications", *Presented at International Conference, Pakistan Institute of Physics, UET, Lahore, March 13 – 16, 2006*
Co-authors: Khan B, Mateen B and Naseem S

19. "Magnetic and Structural Properties of Electro-deposited FeCoNi Thin Films with Variations in Current Density Used during Preparation", *Presented at International Conference UET, Lahore, 23-26 February, (2009).*
Co-author: Kiayani ZN and Naseem S

20. "Plasma Assisted CVD Growth and Characterization of DLC Nanostructures", Presented at National Meeting on Nanotechnology Research in Pakistan, August 03, 2010.
Co-authors: Yar A, Iqbal N and Naseem S

21. "Electrodeposition of L1₀ Ordered CoPt Nanoparticles and Nanowires", Presented at National Meeting on Nanotechnology Research in Pakistan, August 03, 2010.
Co-authors: Kausar R, Naeem S and Naseem S

22. "Preparation and Characterization of Mn doped ZnO through Sol-Gel technique", Presented at National Meeting on Nanotechnology Research in Pakistan, August 03, 2010.
Co-author: Bashir M and Naseem S

23. "Synthesis and Characterization of ZnO nanoparticles Through Sol-Gel Route", Presented at National Meeting on Nanotechnology Research in Pakistan, August 03, 2010.
Co-authors: Ashraf R, Naseem S

24. "Branched Carbon Nanotube Formation Through Cracks and AAO templates", Presented at National Meeting on Nanotechnology Research in Pakistan, August 03, 2010.
Co-authors: Yasir M and Naseem S

25. "Ellipsometry of Zn_xCd_{1-x}S Thin Films", National Meeting on Nanotechnology Research in Pakistan, August 03, 2010.
Co-authors: Jamil MA and Naseem S

26. "Synthesis and Characterization of porous bioceramic monoliths for hard tissue replacement", Presented in 2nd International Symposium on Biomedical Materials: Current Research and Future Signposting, July 6-7, 2010, pg 17
Co-authors: Hussain R, Ashraf N, Fatima N, Asif A, Usman M, Chaudhry AA, Naseem S, Rehman I, Darr JA,

27. "Structural, Magnetic and Optical Properties of undoped Co-evaporated ZnO Thin Films", presented at National Conference at University of Peshawar, Peshawar, 2011
Co-authors: Safeen A, Safeen K and Naseem S

28. "Modeling and Simulations of 1 KV/5 A Normally-off 4H-SiC VJFET", INMIC 2011, Dec22-24, 2011, Sir Syed University of Engineering and Technology, Karachi IEEE (2011)
Co-authors: Khalid M and Naseem S

29. “Synthesis and Characterization of ZrO_2 Nanoparticles for Bio-Medical Applications”, Presented at National Symposium on Frontiers in Nanotechnology, NUST, Islamabad, May 19, 2012
Co-authors: Hamid S and Naseem S
30. “Fabrication and Magnetic Characterization of AAO Template Assisted Growth of Fe_3O_4 Nanotubes”, Presented at National Symposium on Frontiers in Nanotechnology, NUST, Islamabad, May 19, 2012
Co-authors: Akbar A and Naseem S
31. “ZnO Nanowires and Nanotubes for PV Applications”, Presented at National Symposium on Frontiers in Nanotechnology, NUST, Islamabad, May 19, 2012
Co-authors: Noor R and Naseem S
32. “Synthesis and Characterization of Un-doped SnO_2 Nanostructures for PV Applications”, Presented at National Symposium on Frontiers in Nanotechnology, NUST, Islamabad, May 19, 2012
Co-authors: Jabeen G and Naseem S
33. “Effects for the different type of ion beam irradiation on the ZnO nanowires” Poster presentation in International Scientific Spring (ISS), jointly organised by National center for Physics (NCP) Islamabad, and International Center for Theoretical Physics (ICTP), Italy at NCP Islamabad, 2012.
Co-authors: Abbas N, Dee CF, Naseem S, Rafique MH, Long Y, Ahmad I
34. “Fabrication and Characterization of ZrO_2 Nanoparticles” Presented at 6th Vacuum and Surface Sciences Conference of Asia and Australia, October 9-13, 2012 at Pak-China Friendship Centre, Islamabad, Pakistan
Co-authors: Hamid S and Naseem S
35. “Effect of Temperature on the Threshold Voltage of AlGaIn/GaN VHFET on GaN Substrate” Presented at 6th Vacuum and Surface Sciences Conference of Asia and Australia, October 9-13, 2012 at Pak-China Friendship Centre, Islamabad, Pakistan
Co-authors: Arif H and Naseem S
36. “Structural and magnetic properties of Sol-Gel deposited Iron Oxide Thin Films”, Presented at National Seminar on Engineering Materials and Their Performances, CEET, PU, Lahore, Pakistan, April 30, 2013.
Co-authors: Akbar A, and Naseem S.

Presentations (with Proceedings) at International Conferences/Meetings/Symposia (362+10)

INVITED TALKS AT INTERNATIONAL LEVEL (10)

37. Fabrication and Magnetic Characterization of AAO Template Assisted Growth of Fe_3O_4 Nanotubes”, Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)

38. “Iron Oxide Nanoparticles for Cancer Treatment” ”, Presented at International Conference on *Advances in Nano – Biomechanics- Robotics- and Energy Research (ANBRE’13)*, Seoul, Korea, August 25 – 28, (2013)
39. Iron Oxide Nanoparticles for Cancer Treatment” ”, Presented at International Conference on *Advances in Nano – Biomechanics- Robotics- and Energy Research (ANBRE’13)*, Seoul, Korea, August 25 – 28, (2013)
40. Keynote Talk at “International Conference on Solid State Physics (ICSSP’13)”, <http://www.icssp13.org.pk/> , Lahore, Pakistan, December 1-6, 2013
41. “Chemical synthesis of Cr doped iron oxide nanoparticles”, Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
42. “Structural and magnetic properties of Co doped iron oxide nanoparticles”, Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
43. “Exchange bias in core-shell iron aluminum oxide nanostructures”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
44. “Fabrication and characterization of core-shell magnetic nanowires”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
45. Saira Riaz, Shyreen Fatima and Shahzad Naseem, “Bacterial removal from water by using Al₂O₃ and FeO nanoparticles”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3H.6.MR373_1464F1.pdf)
46. “Changes in Magnetic Properties of Co-rich Nanowires fabricated in AAO Film Templates due to Magnetic Field Annealing”, *5th International Conference on Magnetic Films and Nanomagnetism*, Su Zhuo, China, May 13 – 15, 2006
Co-authors: S. Shamaila, R. Sharif, X.Q. Zhang, L.X. Jiang and X.F. Han
47. “Magnetic and Magnetization Properties of CoFeB Nanowires”, *Presented at International Conference of Magnetism*, Japan, 2006
Co-authors: R. Sharif, X.Q. Zhang, S. Shamaila, L.X. Jiang, X.F. Han
48. “Thermally Evaporated Fe-Ox Thin Films for use in MTJs – Structural, Magnetic and Electrical Properties”, Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR’12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Farooq S and S. Naseem

49. "Effect of Fe-Ox as a Tunneling Barrier on the coupling of CoB/Fe-Ox/Co Trilayers", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Usman H and S. Naseem

50. "Improved magnetic properties of sol-gel derived Fe₃O₄ nanoparticles for bio-medical applications", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Ahmad P, Akbar A and S. Naseem

51. "Preparation of Fe₃O₄ Thin Films by Sol-Gel Technique – Magnetic and Structural Properties", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)* Seoul, Korea, August 26 – 29, (2012)
Co-authors: Akbar A and S. Naseem

52. "Synthesis and Characterization of FeO-ZrO₂ Nanoparticles for Bio-medical applications ", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Hamid S and S. Naseem

53. "Preparation and Characterization of BiFeO₃ Thin Films by Sol-Gel Route ", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Akbar A and S. Naseem

54. "Effect of Cu content on the Structural, Electrical and Magnetic properties of Mn-Ferrites", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Nisa Z, Atiq S, Siddiqi S. A. and Naseem S

55. "Induced Modifications in the Structural, Electrical and Magnetic Properties of Sr-doped BiFeO₃ Multiferroics", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Atiq S, Hussain T, Siddiqi S.A. and Naseem S

56. "Zn_xCd_{1-x}S (x=0-1) Thin Films Prepared by Nano Colloidal Suspension – Optical and Structural Analyses", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Hussain S, and Naseem S

57. "ZnS Dendrites – Optical, Electrical and Structural Properties", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Gul S, Akhtar M. S and Naseem S

58. "ZnO / c-Si Solar cell Fabricated Through Sol-Gel and Spin Coating", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Farooq S, Hussain S and Naseem S

59. "A Comparative Study of ZnO Thin Films, Nanowires and Nanotubes for Photovoltaics Applications", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Noor R, and Naseem S
60. "Synthesis and Characterization of Zn-doped and un-doped SnO₂ nanostructures for PV Applications", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Jabeen G, and Naseem S
61. "Synthesis and Characterization of CdTe Ink Comprised of Nanoparticles", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Akram Z, Qasim M and Naseem S
62. "Synthesis and Characterization of CdS Ink Comprised of Nanoparticles", Presented and Published in the proceedings of International Conference on *Advances in Materials Research (ICAMR'12)*, Seoul, Korea, August 26 – 29, (2012)
Co-authors: Qasim M, Akram Z and Naseem S
63. "Alumina Coatings for use under high Radiation Conditions", *Presented at International Conference on Metallurgical Coatings and Thin Films*, April 29 – May03, 2013, San Diego, California, USA
Co-authors: Naseem S, Majid F, Ahmad I, Khakeeq-ur-Rehman M
64. "A Detailed Investigation into the Preparation and Properties of ZrO₂- Fe₂O₃ Coatings for Bio-Medical Applications", *Presented at International Conference on Metallurgical Coatings and Thin Films*, April 29 – May03, 2013, San Diego, California, USA
Co-author: Naseem S
65. "Preparation and Characterization of CIGAS Thin Films and Their Solar Cells", *Presented at International Conference on Metallurgical Coatings and Thin Films*, April 29 – May03, 2013, San Diego, California, USA
Co-author: Naseem S
66. "Low Temperature Formation of Aluminum Oxide Thin Films" *Presented and published in the proceedings (PP-63-65) of 2nd International Conference on Bio-Nanotechnology, Nanotechnology and Its Applications (ICBNA'2013)* Lonndon, UK, June 17-18, 2013, (available onile)
Co-author: Majid F and Naseem S
67. "Atomic Force Microscopy of Electrodeposited Aluminum Oxide Thin Films" *Presented and published in the proceedings (PP-58-62) of 2nd International Conference on Bio-Nanotechnology, Nanotechnology and Its Applications (ICBNA'2013)* Lonndon, UK, June 17-18, 2013 (available online)
Co-author: Majid F and Naseem S

68. "Fabrication and Magnetic Characterization of Fe₃O₄ Nanotubes and Nanowires", *Presented at International Conference on Advanced Complex Inorganic Nanomaterials (ACIN)*, Namur, Belgium, July 15 – 19, 2013
Co-author: Naseem S
69. "Structural and Optical Properties of Sol-Gel prepared ZnS Dendrites", *Presented at International Conference on Advanced Complex Inorganic Nanomaterials (ACIN)*, Namur, Belgium, July 15 – 19, 2013
Co-author: Akhtar MS and Naseem S
70. "Improved Magnetic Properties of Sol-Gel Derived Fe₃O₄ Nanoparticles for Bio-Medical Applications ", *Presented at International Conference on Advanced Complex Inorganic Nanomaterials (ACIN)*, Namur, Belgium, July 15 – 19, 2013
Co-author: Akbar A and Naseem S
71. "Magnetic and Magnetization Properties of Spin-deposited un-doped ZnO Nanowire Arrays", *Presented at International Conference on Advanced Complex Inorganic Nanomaterials (ACIN)*, Namur, Belgium, July 15 – 19, 2013
Co-author: Ashraf R and Naseem S
72. "Effect of pH on the Optical Properties of Sol-Gel prepared ZnS thin films by Spectroscopic Ellipsometry", *Presented at International Conference on Advanced Complex Inorganic Nanomaterials (ACIN)*, Namur, Belgium, July 15 – 19, 2013
Co-author: Akhtar MS and Naseem S
73. Effect of Mn-doping Concentration on the Structural & Magnetic Properties of Sol-Gel Deposited ZnO Diluted Magnetic Semiconductor", *Presented at International Conference on Advanced Materials and manufacturing Science (ICAMMS)* December 21-21, 2012, Beijing, China, published by Atlantis Press, pp 518-522 (2013) available online
Co-authors: Bashir M, Hussain SS and Naseem S
74. "Power Macro Modelling for CMOS Inverter of 0.12µm Technology", *Presented at International Conference on Advanced Materials and manufacturing Science (ICAMMS)* December 21-21, 2012, Beijing, China, published by Atlantis Press, pp 509-513 (2013) available online
Co-authors: Naseem S, Azam M, Ali S.S and Durrani Y.A
75. "Noise Optimization of Low Power CMOS Charge Amplifier Using Simulation Environment of EldoTM.", *Presented at International Conference on Advanced Materials and manufacturing Science (ICAMMS)* December 21-21, 2012, Beijing, China, published by Atlantis Press, pp 506-508 (2013) available online
Co-authors: Naseem S, Hussain A, Ghayas D
76. "Optical and Structural Properties of Electr-deposited Alumina Thin Films, *Presented at International Conference on Advanced Materials and manufacturing Science (ICAMMS)* December 21-21, 2012, Beijing, China, published by Atlantis Press, pp 523-526 (2013) available online
Co-authors: Majid F, Akram MI, Atiq S, Naseem S

77. "Effect of Solvents on the Ferromagnetic Behaviour of Undoped BiFeO₃ prepared by Sol-Gel", Presented at International Symposium on Advanced Magnetic Materials and Applications (ISAMMA), Taichung, Taiwan, July 21-25, 2013.
Co-authors: Akbar A, Atiq S and Naseem S
78. "Magnetic and Magnetization Properties of Sol-Gel Deposited Magnetite Thin Films", Presented at International Symposium on Advanced Magnetic Materials and Applications (ISAMMA), Taichung, Taiwan, July 21-25, 2013.
Co-authors: Akbar A, Hussain S S and Naseem S
79. "Effect of pH on the optical properties of ZnS", Presented at International Symposium on Advanced Magnetic Materials and Applications (ISAMMA), Taichung, Taiwan, July 21-25, 2013.
80. "Magnetic and Magnetization properties of co-doped ZnS Thin Films ", Presented at International Symposium on Advanced Magnetic Materials and Applications (ISAMMA), Taichung, Taiwan, July 21-25, 2013
81. "Magnetoresistance of Iron Oxide based Trilayers", Presented at International Symposium on Advanced Magnetic Materials and Applications (ISAMMA), Taichung, Taiwan, July 21-25, 2013
82. "Synthesis and Characterization of SnO₂ Nanoparticles for PV applications, *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Nairan A, Bashir M, Ashraf A and Naseem S
83. "Optical and Structural Properties of Electrodeposited Aluminum Oxide at Low Temperatures", *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Imran M, Majid F and Naseem S
84. "Synthesis and Characterization of Sol-gel Deposited Aluminum Oxide at Low Temperatures, *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Majid F, Ijaz T, Farooq M and Naseem S
85. "Magnetic and Structural Properties of Co doped ZnO Nanoparticles, *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Ashraf R, Bashir M and Naseem S
86. "Synthesis and Characterization of TiO₂ Nanoparticles", *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Akbar A, Imran M and Naseem S

87. "Synthesis and Characterization of ZnO Nanoparticles", *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Ashraf R, Rehman MK and Naseem S
88. "Synthesis and Characterization of ZrO₂-ZnO Nanoparticles", *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Bashir M, Ashraf A, Imtiaz M and Naseem S
89. "Effect of Al doping on the Structural and Magnetic Properties of Iron Oxide Thin Films, *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Akbar A, Zafar S and Naseem S
90. "Magnetic and Structural Properties of Calcium doped BiFeO₃ Thin Films, *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Akbar A and Naseem S
91. "Magnetic and Structural Properties of La doped BiFeO₃ Thin Films, *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Aseya A, Atiq S and Naseem S
92. "Electrical Properties of Iron Oxide Nanoparticles Coated Carbon Nanotubes, *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Azam M, Akbar A and Naseem S
93. "Effect of Magnesium doping on Structural and Magnetic Properties of Iron oxide thin films *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Akbar A, Maria B and Naseem S
94. "Effect of Iron Doping on Structural, Optical and Magnetic Properties of TiO₂ thin films by Sol-gel Technique, *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Akbar A and Naseem S
95. "Synthesis and Characterization of CdS and CdTe Inks for Solar Cells", *Presented and Published in Proceeding of "2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE)"* August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Butt A and Naseem S

96. “Structural and Electrical Properties of CIAGS Thin Films”, *Presented and Published in Proceeding of “2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE) August 25-28, 2013, COEX, Seoul, Korea*
97. Co-authors: Azam A, Khan U, and Naseem S

98. “Structural and Optical properties of CIAGS thin films”, *Presented and Published in Proceeding of “2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE) August 25-28, 2013, COEX, Seoul, Korea*
Co-authors: Batool S and Naseem S

99. “Synthesis and Characterization of CIGS ink for Solar Cells”, *Presented and Published in Proceeding of “2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE) August 25-28, 2013, COEX, Seoul, Korea*
Co-authors: Sadaqat A and Naseem S

100. “Preparation and Characterization of Cu - ZnTe Thin Films”, Presented and Published in Proceeding of “2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE) August 25-28, 2013, COEX, Seoul, Korea
Co-authors: Naseem S and Hussain SS

101. “Synthesis and Characterization of Magnetic Nanoparticles for Cancer Therapy, *Presented and Published in Proceeding of “2013 World Congress on Advances in Nano, Biomechanics, Robotics and Energy Research (ANBRE) August 25-28, 2013, COEX, Seoul, Korea*
Co-authors: Atiq S, Ansar Z and Naseem S

102. “FeAl₂O₄ thin films prepared by Sol-Gel – structural and magnetic properties”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5150 (www.sciencedirect.com)

103. M Khalid, Mehboob Ahmed, Shabana Aziz, Saira Riaz and Shahzad Naseem, “Study of theoretical investigation of bipolar effect in 4H-SiC VJFET”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5155 (www.sciencedirect.com)

104. Gull Jabeen Naz, Usman Khan, Saira Riaz and Shahzad Naseem, “Effect of transition bi-metal doping on ZnO thin films”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5160 (www.sciencedirect.com)

105. Zohra N Kayani, F. Nazir, Saira Riaz, R. Zia and Shahzad Naseem, “Structural, optical and magnetic properties of MnZnO Thin Films”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5166 (www.sciencedirect.com)

106. Shumaila Islam, Rosly A Rahman, Saira Riaz, Shahzad Naseem, Zulkafli Othaman and MA Saeed, "Study of Sol-Gel based antireflection coatings", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5177 (www.sciencedirect.com)
107. Hadia Noor, Saira Riaz and Shahzad Naseem, "Capacitance-voltage characteristics of selectively doped CIAGS/Si junctions", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5196 (www.sciencedirect.com)
108. Aisha Batool, Farah Kanwal, Saira Riaz, Aamir Abbas and Shahzad Naseem, "Novel method to synthesize conducting polyaniline/nickle sulphide nanocomposite films and the study of their structural and electrical properties", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5201 (www.sciencedirect.com)
109. Shumaila Islam, Rosly A Rahman, Saira Riaz, Shahzad Naseem and Zulkafli Ottoman, "Study of single and multilayer silica-titania thin films on plastic substrate", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5205 (www.sciencedirect.com)
110. S Zaheer H Shah, Usman Khan, Saira Riaz and Shahzad Naseem, "Effect of pH on iron oxide nanoparticles", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5214 (www.sciencedirect.com)
111. M Khalid, Saira Riaz and Shahzad Naseem, "Simulations and analysis of electrical characteristics of 4H-SiC/Pt Schottky barrier diode", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5225 (www.sciencedirect.com)
112. M Khalid, Saira Riaz and Shahzad Naseem, "Tailoring of the Band gap in transition metal-doped ZnO: first principle calculations", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5246 (www.sciencedirect.com)
113. Mahmood ul Hassan, Saira Riaz and Shahzad Naseem, "Room temperature ferromagnetism and nickel addition effects in titanium dioxide", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5251 (www.sciencedirect.com)
114. Shahid Atiq, M Javid, Saira Riaz and Shahzad Naseem, "Magnetic phase transition in nickel oxide", Presented at the International Conference on Solid State Physics – 2013,

115. Farzana Majid, Saira Riaz, N Tariq and Shahzad Naseem, "Ferromagnetic behaviour of undoped BiFeO₃ thin films prepared by Sol-Gel", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5274 (www.sciencedirect.com)
116. Saira Riaz, S Zaheer H Shah, Zohra N Kayani and Shahzad Naseem, "Magnetic and structural phase transition in iron oxide nanostructures", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5280 (www.sciencedirect.com)
117. Imran Ghafoor, Saadat A Siddiqi, Shahid Atiq, Saira Riaz and Shahzad Naseem, "Investigating the structural and electrical properties of La_{0.1}Bi_{0.9-x}Pb_xFeO₃ (x=0.0, 0.05, 0.10, 0.2, 0.3) multiferroics", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5288 (www.sciencedirect.com)
118. Farzana Majid, Samar T Mirza, Saira Riaz and Shahzad Naseem, "Sol-Gel synthesis of BiFeO₃ nanoparticles", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5293 (www.sciencedirect.com)
119. Shumaila Islam, Rosly Abdul Rahman, Saira Riaz, Shahzad Naseem and Zulkafli Ottoman, "Formation of rutile titania phase at low temperature", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5298 (www.sciencedirect.com)
120. M Saeed Akhtar, Saira Riaz and Shahzad Naseem, "DFT study of half metallic ferromagnetism in Zn_{1-x}Cr_xS alloys", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5337 (www.sciencedirect.com)
121. Hadia Noor, Saira Riaz and Shahzad Naseem, "Effect of radiation on ZnTe/Si junction using I-V and C-V measurements", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5343 (www.sciencedirect.com)
122. M Khalid, Mehboob Ahmed, Saira Riaz and Shahzad Naseem, "Study of temperature dependent punch-through behaviour in 4H-SiC VJFET: TCAD simulation", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5352 (www.sciencedirect.com)

123. Fida Rehman, Hai-Bo Jin, Jing-Bo Li, Arfan Bukhtiar, M Khalid, M Rizwan, Saira Riaz and Shahzad Naseem, "Simulations of transient behaviour and parasitic effects for 20 nm gate length of PD SOI nMOSFET", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5357 (www.sciencedirect.com)
124. W Mahmood, Saira Riaz and Shahzad Naseem, "Structural and magnetic properties of BiFeO₃ thin films by sol-gel", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5373 (www.sciencedirect.com)
125. Robina Ashraf, Saira Riaz, Zohra N Kayani and Shahzad Naseem, "Structural and magnetic properties of iron doped ZnO nanoparticles", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5384 (www.sciencedirect.com)
126. Sunia Siddique, M Tahir, Saira Riaz and Shahzad Naseem, "Structural and magnetic properties of Mg-doped iron oxide thin films", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5390 (www.sciencedirect.com)
127. Aseya Akbar, Saira Riaz, S Sajjad Hussain and Shahzad Naseem, "Magnetic properties of Sol-Gel deposited magnetite thin films", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5395 (www.sciencedirect.com)
128. Manzar M Yaqoob, S Sajjad Hussain, Saira Riaz and Shahzad Naseem, "Effect of oxidation temperature on structural and magnetic properties of Al-doped iron oxide thin Films", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5400 (www.sciencedirect.com)
129. Aseya Akbar, M Imran, Saira Riaz and Shahzad Naseem, "Study of phase transition in iron oxide thin films", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5405 (www.sciencedirect.com)
130. M Zaka Ansar, Shahid Atiq, Saira Riaz and Shahzad Naseem, "Magnetic nano-crystallites for anti-cancer drug delivery", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5410 (www.sciencedirect.com)
131. Usman Khan, Aseya Akbar, Hassan Yousaf, Saira Riaz and Shahzad Naseem, "Ferromagnetic properties of Al-doped Fe₂O₃ thin films by Sol-Gel", Presented at the

International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5415 (www.sciencedirect.com)

132. Usman Khan, Aseya Akbar, Unaiza Ahmad, Saira Riaz and Shahzad Naseem, “Magnetic behaviour of iron oxide thin films for biomedical applications”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5421 (www.sciencedirect.com)
133. M Khalid, Saira Riaz, Alexander E Grekov, Enrico Santi and Shahzad Naseem, “High breakdown voltage characteristics in normally-off 4H-SiC VJFET using TCAD simulation”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5436 (www.sciencedirect.com)
134. Shumaila Islam, Saira Riaz, Rosly A Rehman, Shahzad Naseem and Zulkafli Ottoman, “Effect of boron doping on the kinetics of mullite thin films transformation”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5441 (www.sciencedirect.com)
135. Zohra N Kayani, Yasmeen Ali, Faiza Kiran, I Batool, MZ Butt, Maryam Umer, Saira Riaz and Shahzad Naseem, “Fabrication of copper oxide nanoparticles by sol-gel route”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5446 (www.sciencedirect.com)
136. M Imran, Saira Riaz and Shahzad Naseem, “Synthesis and characterization of titania nanoparticles by Sol-Gel technique”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5455 (www.sciencedirect.com)
137. Robina Ashraf, Saira Riaz, Zohra N Kayani and Shahzad Naseem, “Effect of calcination on properties of ZnO nanoparticles”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5468 (www.sciencedirect.com)
138. Zohra N Kayani, Aliya Afzal, ES Khan, F Nazir, Farhat Saleemi, Saira Riaz and Shahzad Naseem, “Structural and magnetic properties of CoZnO films”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5473 (www.sciencedirect.com)
139. M Saeed Akhtar, Saira Riaz and Shahzad Naseem, “Optical properties of Sol-gel deposited ZnS thin films: Spectroscopic Ellipsometry”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5497 (www.sciencedirect.com)

140. M Saeed Akhtar, Saira Riaz and Shahzad Naseem, "Study of half metallicity in Mn, Fe and MnFe co-doped cubic ZnS by first-principles", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5528 (www.sciencedirect.com)
141. Raja Shehryar Ali, S Sajjad Hussain, Saira Riaz and Shahzad Naseem, "Structural, optical and electrical characterization of Fe₃O₄ thin films prepared using PVD Magnetron sputtering (RF)", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5543 (www.sciencedirect.com)
142. Fouzia Altaf, Shahid Atiq, Saira Riaz and Shahzad Naseem, "Synthesis of Co-doped Sr-hexaferrites by Sol-gel and its electrical characterization", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5548 (www.sciencedirect.com)
143. Zohra N Kayani, Erum Shahid Khan, Farhat Saleemi, Saira Riaz and Shahzad Naseem, "Optical and magnetic properties of iron oxide thin films", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5568 (www.sciencedirect.com)
144. M Azim, Shahid Atiq, Saira Riaz and Shahzad Naseem, "Phase stabilization and frequency dependant dielectric response of La-doped Sr-hexaferrites", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5578 (www.sciencedirect.com)
145. Mirza Khurram Baig, Shahid Atiq, Shazia Bashir, Saira Riaz and Shahzad Naseem, "Thickness dependant optimization of 1-5 phase of SmCo thin films deposited by pulsed laser", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5582 (www.sciencedirect.com)
146. M Umair Farooq, Shahid Atiq, Shazia Bashir, Saira Riaz and Shahzad Naseem, "Substrate temperature dependant deposition by pulsed laser and characterization of SmCo films", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5592 (www.sciencedirect.com)
147. Mahmood ul Hassan, Saira Riaz and Shahzad Naseem, "Modification in structural and magnetic properties of pure ZnO realized by Bi addition", Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5596 (www.sciencedirect.com)
148. Haroon M Jaral, S Sajjad Hussain, Saira Riaz and Shahzad Naseem, "Effect of annealing on structural and magnetic properties of magnetite Fe₃O₄ thin films using

radio frequency magnetron sputtering”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5601 (www.sciencedirect.com)

149. Zohra N Kayani, Faiza Kiran, Fariha Nazir, Erum Shahid Khan, Saira Riaz and Shahzad Naseem, “Preparation of thin films of NiZnO by sol-gel dip coating”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5607 (www.sciencedirect.com)
150. Mahwish Bashir, Saira Riaz, M Farooq A Butt and Shahzad Naseem, “Structural and magnetic properties of Fe₃O₄ doped zirconia”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5611 (www.sciencedirect.com)
151. Mahwish Bashir, Saira Riaz and Shahzad Naseem, “Structural, mechanical and magnetic properties of FeO added zirconia”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5627 (www.sciencedirect.com)
152. S Mazhar H Shah, Saira Riaz, S Sajjad Hussain, Shahid Atiq and Shahzad Naseem, “Structural, magnetic and dielectric properties of Ba doped BiFeO₃ thin films”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5654 (www.sciencedirect.com)
153. Zohra N Kayani, A Afzal, M Zakria Butt, I Batool, Sana Arshad, Yasmeen Ali, Saira Riaz and Shahzad Naseem, “Structural, optical and magnetic properties of iron oxide nano-particles”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5660 (www.sciencedirect.com)
154. Mahwish Bashir, Saira Riaz and Shahzad Naseem, “Effect of pH on ferromagnetic iron oxide nanoparticles”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5664 (www.sciencedirect.com)
155. Aseya Akbar, Saira Riaz and Shahzad Naseem, “Magnetic properties of Co-doped Fe₂O₃ thin films”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5674 (www.sciencedirect.com)
156. Aseya Akbar, Muntaha Niaz, Saira Riaz and Shahzad Naseem, “Magnetic and structural properties of Cr-doped Fe₂O₃”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6,

2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5679 (www.sciencedirect.com)

157. M Saeed Akhtar, Saira Riaz and Shahzad Naseem, “Theoretical investigation of half metallicity in cobalt doped ZnS: DFT studies”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5684 (www.sciencedirect.com)
158. M Saeed Akhtar, Saira Riaz and Shahzad Naseem, “Synthesis of ZnS nanoparticles by chemical bath deposition”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5691 (www.sciencedirect.com)
159. M Ashraf, S Sajjad Hussain, Saira Riaz and Shahzad Naseem, “Preparation and characterization of ZnCdS and CdTe thin films by PVD for photovoltaic applications”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5695 (www.sciencedirect.com)
160. M Azam, Saira Riaz and Shahzad Naseem, “Structural and magnetic properties of lower temperature calcined iron oxide nanoparticles”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5700 (www.sciencedirect.com)
161. M Azam, M Amir Zeeshan, Saira Riaz and Shahzad Naseem, “Structural and magnetic properties of MgFe₂O₄ thin films”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5705 (www.sciencedirect.com)
162. Aisha Batool, Farah Kanwal, Saira Riaz, Shahid Atiq and Shahzad Naseem, “Effect of non-ionic surfactant on the structural and dielectric properties of polypyrrole”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5710 (www.sciencedirect.com)
163. M Habib, S Sajjad Hussain, Saira Riaz and Shahzad Naseem, “Preparation and characterization of ZnO nanowires and their applications in CO₂ gas sensors”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5714 (www.sciencedirect.com)
164. M Khalid, Waseem Raza, Saira Riaz and Shahzad Naseem, “Simulation and analysis of static and dynamic performance of normally-off 4H-SiC TIVJFET using Sentaurus TCAD”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5720 (www.sciencedirect.com)

165. M Khalid, Saira Riaz and Shahzad Naseem, “Normally-on 4H-SiC Vertical Junction Field Effect Transistor (VJFET): Design and analysis using TCAD simulation”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5726 (www.sciencedirect.com)
166. M Akram Raza, Saira Riaz and Shahzad Naseem, “Size dependant N₂-gas sensing characteristics of gold nanoparticles”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5731 (www.sciencedirect.com)
167. S Mazhar H Shah, Saira Riaz, Shahid Atiq and Shahzad Naseem, “Structural, dielectric and magnetic properties of potassium doped bismuth iron oxide thin films”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5736 (www.sciencedirect.com)
168. Mussarat Fatima, Saira Riaz, Zohra N Kayani and Shahzad Naseem, “Effect of calcination on phase transition in iron oxide nanoparticles”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5743 (www.sciencedirect.com)
169. Farzana Majid, Saira Riaz Adnan Naseer and Shahzad Naseem, “Structural and magnetic properties of BiFe_{1-x}Mn_xO₃ thin films”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5748 (www.sciencedirect.com)
170. Robina Ashraf, Saira Riaz, S Sajjad Hussain and Shahzad Naseem, “Effect of pH on properties of ZnO nanoparticles”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5754 (www.sciencedirect.com)
171. RN Khan, Nasir Ali, Saira Riaz and Shahzad Naseem, “Effect of calcination on properties of cobalt doped ZnO nanoparticles”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5765 (www.sciencedirect.com)
172. Nasir Ali, Mahwish Bashir, Shafaq Batool, Saira Riaz and Shahzad Naseem, “Structural and optical properties of zirconia thin films”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5771 (www.sciencedirect.com)
173. Mahwish Bashir, Saira Riaz and Shahzad Naseem, “Structural and mechanical properties of sucrose added zirconia thin films”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan,

174. Imtiaz Ahmad, Mahwish Bashir, Afifa Sadaqat, Saira Riaz and Shahzad Naseem, “Effects of temperature on zirconia nanoparticles during and after synthesis”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5786 (www.sciencedirect.com)
175. Sehrish Gul, Anum Azam, Nazmina Imrose, Saira Riaz and Shahzad Naseem, “Tin oxide thin films prepared by sol-gel for PV application”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5793 (www.sciencedirect.com)
176. Zohra N Kayani, Mehak Butt, Yasmeen Ali, Saira Riaz and Shahzad Naseem, “Structural and optical study of NiO nanoparticles”, Presented at the International Conference on Solid State Physics – 2013, University of the Punjab, Lahore, Pakistan, December 1-6, 2013: Materials Today: Proceedings, Vol. 2, Issue 10, Part B, 2015, 5804 (www.sciencedirect.com)
177. Mahwish Bashir, Saira Riaz, M Saeed Akhtar and Shahzad Naseem, “Synthesis and characterization of Fe₃O₄ stabilized ZrO₂ nanoparticles”, Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
178. Zohra N Kayani, S Arshad, Saira Riaz, Rehana Zia and Shahzad Naseem, “Structural characterization and optical properties of cobalt oxide thin films”, Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
179. Shahzad Naseem, Farzana Majid and Saira Riaz, “Effect of reaction temperature on structural, magnetic and dielectric properties of bismuth iron oxide nanoparticles”, Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
180. M Saeed Akhtar, Saira Riaz, S Sajjad Hussain and Shahzad Naseem, “Magnetic properties of un-doped and Fe-doped ZnS thin films”, Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
181. Mahwish Bashir, Saira Riaz and Shahzad Naseem, “Structural and mechanical properties of polymer additive based zirconia thin films prepared by Sol-Gel”, Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)

182. Mahwish Bashir, Saira Riaz and Shahzad Naseem, "Synthesis and characterization of polymer additives based nanocrystalline zirconia by Sol-Gel method for teeth coatings", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
183. Aseya Akbar, Saira Riaz, Shahzad Naseem and Aisha Batool, "Effect of pH on structural properties of iron oxide thin films", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
184. Shumaila Islam, R Abdul Rahman, Saira Riaz, Z Othaman, M Alam Saeed and Shahzad Naseem, "Sol-Gel modified high surface area hybrid nano-composite as pH sensor", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
185. Shahid Atiq, T Hussain, Saira Riaz and Shahzad Naseem, "Structural and dielectric properties of Zn-doped MgAl_2O_4 ", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
186. Shahid Atiq, M Majid, Saira Riaz and Shahzad Naseem, "Optimizing the synthesis of titanium oxide nano-crystallites using low cost organic fuels", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
187. Shumaila Islam, R Abdul Rahman, Saira Riaz, Shahzad Naseem, Z Othaman and M Alam Saeed "High surface area SiO_2 - TiO_2 nano-composite as pH sensor", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html) 135
188. M Akram Raza, Saira Riaz and Shahzad Naseem, "Optical sensing of carbon dioxide based on colloidal gold nanoparticles", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
189. Saira Riaz, M Akram Raza and Shahzad Naseem, "Synthesis and characterization of indium tin oxide nanoparticles", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
190. M Khalid, Saira Riaz and Shahzad Naseem, "First principle calculation of indium doped ZnO using LDA and GGA approximation", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
191. Farzana Majid, Saira Riaz, Shahid Atiq and Shahzad Naseem, "Structural, optical and dielectric properties of electrodeposited Al_2O_3 thin films", Proc. The 2014 World

- Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
192. Farzana Majid, Saira Riaz and Shahzad Naseem, "Dielectric properties of sputtered Al_2O_3 thin films", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
193. Aseya Akbar, Saira Riaz, Zohra N Kayani and Shahzad Naseem, "Effect of Co doping on structural properties of hematite thin films", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
194. S Mazhar H Shah, Saira Riaz, Shahid Atiq and Shahzad Naseem, "Structural and dielectric properties of Sol-Gel prepared BiFeO_3 thin films", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
195. Aseya Akbar, Saira Riaz and Shahzad Naseem, "Effect of Al doping on structural and magnetic properties of iron oxide thin films prepared by Sol-Gel method", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
196. M Khalid, Saira Riaz, Shahzad Naseem and M Azam, "Theoretical study of spinel structure of FeAl_2O_4 using Density Functional Theory", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
197. S Mazhar H Shah, Saira Riaz, Shahid and Shahzad Naseem, "Structural and dielectric properties of $\text{Bi}_{1-x}\text{La}_x\text{FeO}_3$ thin films", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
198. Farzana Majid, Saira Riaz and Shahzad Naseem, "Ferromagnetic and dielectric behavior of bismuth iron oxide nanoparticles under as-synthesized conditions", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
199. Robina Ashraf, Saira Riaz and Shahzad Naseem, "Structural, electronic and optical properties of $\gamma\text{-Fe}_2\text{O}_3$ by ADF", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
200. Robina Ashraf, Saira Riaz and Shahzad Naseem, "Theoretical investigation of effect of cobalt doping on properties of iron oxide by ADF", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)

201. Robina Ashraf, Saira Riaz, M Saeed Akhtar and Shahzad Naseem, "Study of structural and electronic properties of iron oxide by ADF", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
202. Aisha Batool, Farah Kanwal, Saira Riaz, A Abbas and Shahzad Naseem, "Study of Polyaniline/maghemite nanocomposites by chemical oxidation", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
203. Saira Riaz, Robina Ashraf, Shumaila Islam and Shahzad Naseem, "Effect of pH on the structural properties of iron oxide nanoparticles", Proc. The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'14), August 24-28, 2014, BEXCO, Busan, Korea (http://www.i-asem.org/acem14_publication.html)
204. Saira Riaz, Shahzad Naseem and XF Han, "Citric acid coated iron oxide nanoparticles – structural and magnetic properties", IEEE Magnetics Conference (INTERMAG), 11-15 May 2015, Beijing, China
205. Mahwish Bashir, Robina Ashraf, Aseya Akbar, Saira Riaz and Shahzad Naseem, "Effect of calcination on structural and magnetic properties of Co-doped ZnO nanostructures", IEEE Magnetics Conference (INTERMAG), 11-15 May 2015, Beijing, China
206. Shahid Atiq, SM Ramay, A Mahmood, Saira Riaz and Shahzad Naseem, "Magnetically re-cycleable Pd-modified NiFe₂O₄ nanoparticles", IEEE Magnetics Conference (INTERMAG), 11-15 May 2015, Beijing, China
207. Shahid Atiq, SA Siddiqi, HS Ko, Saira Riaz, Shahzad Naseem and SC Shin, "Epitaxial growth and magnetic characterization of γ' Fe₄N thin films", IEEE Magnetics Conference (INTERMAG), 11-15 May 2015, Beijing, China
208. Syed Sajjad Hussain, M. Imran, Saira Riaz and Shahzad Naseem, "Variations in Structural and Magnetic Properties of Sol-Gel deposited Hematite – Dependence on Annealing Conditions"
209. Syed Sajjad Hussain, Hadia Noor, M Tahir, Saira Riaz, K Abid and Shahzad Naseem, "Surface Studies of La doped Bismuth Iron Oxide Nano-particles by Scanning Kelvin Probe System"
210. Hadia Noor, H Yousaf, MA Naseer, N Iqbal, N Tariq, Saira Riaz and Shahzad Naseem, "Ball Milling Effect on Structural, Optical and Dielectric Properties of Y₂O₃",
211. Salman Jutt, Saira Riaz and Shahzad Naseem, "Ethylene glycol mediated zirconia based protective teeth coatings - Effect of reaction temperature", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015

212. Ghulshan Ayub, Saira Riaz and Shahzad Naseem, "Preparation and characterization of TiO₂ doped ZrO₂ thin films for dentistry applications", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
213. Mahwish Bashir, Y-J Guo, Saira Riaz and Shahzad Naseem, "Sol-Gel synthesis of biocompatible TiO₂ doped ZrO₂ nanoparticles", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
214. Zakia Kanwal, M Akram Raza, Zaeema Usman, Saira Riaz and Shahzad Naseem, "Effect of sub-acute exposure to nickel nanoparticles on haematological, histopathological and biochemical responses in freshwater fish *Labeo rohita*", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
215. Maryam Nadeem, M Akram Raza, Zakia Kanwal, Saira Riaz and Shahzad Naseem, "Nanoscale synthesis, characterization and antibacterial studies of nickel nanoparticles", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
216. Bushra Bukhari, Saira Riaz and Shahzad Naseem, "Formation of zirconia nanostructures using citric acid as additive", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
217. Natasha Tariq, Nimra Iqbal, Hadia Noor, Saira Riaz and Shahzad Naseem, "Effect of milling time on the structural and dielectric properties of Al₂O₃", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
218. S Kumail Abbas, Shahid Atiq, Saira Riaz and Shahzad Naseem, "Frequency and temperature dependent electrical characterization to study the variation in conductivity and activation energy of SrMnO₃ Nano-crystallites", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
219. S Kumail Abbas, Tanveer Hussain, Shahid Atiq, Saira Riaz and Shahzad Naseem, "Non-linear dielectric behaviour studies of Rietveld refined Mg-substituted zinc aluminate", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
220. Robina Ashraf, M Azam, Tariq Mahmood, Saira Riaz and Shahzad Naseem, "Comparison of structural, optical and magnetic properties of iron oxide by using GGA+U and LDA+U", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
221. Robina Asharf, Tariq Mahmood, Saira Riaz and Shahzad Naseem, "DFT analysis of iron oxide by using GGA and GGA+U approach in ADF", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015

222. Robina Ashraf, Saira Riaz, Tariq Mahmood and Shahzad Naseem, “Effect of Hubbard potential on electronic, structural, optical and magnetic properties of hematite”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
223. Robina Ashraf, Tariq Mahmood, M Azam, Saira Riaz and Shahzad Naseem, “Investigation of electronic, optical and magnetic properties of magnetite by using DFT+U approach”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
224. Robina Ashraf, Saira Riaz, Tariq Mahmood and Shahzad Naseem, “Study of electronic, optical and magnetic properties of maghemite by Density Functional Theory”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
225. Khalil Ahmad and Shahzad Naseem, “Effect of doping densities on internal parameters of ITO/InP solar cells”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
226. Shabana Aziz, Saira Riaz and Shahzad Naseem, “Simulation and modeling of breakdown voltage of InGaAs based HEMT using TCAD”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
227. Deborah Eric, Saira Riaz and Shahzad Naseem, “Designing and simulation of IGBT using SYNOPSIS TCAD”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
228. Abdullah Bin Zahid, Saira Riaz and Shahzad Naseem, “Finger type MESFET design on 4H-SiC Material”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
229. M Javaid Iqbal, Ali Ahmad, M Adnan Naseer, M Imran, Saira Riaz and Shahzad Naseem, “Carbon nanotube network-based Field Effect Transistor”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
230. Shehla Jabeen, Faiza Arshad, M Javaid Iqbal, M Akram Raza, Saira Riaz and Shahzad Naseem, “Nanoparticles-based MTJ Field Effect Transistor”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
231. Maryam Basit, Saira Riaz and Shahzad Naseem, “Synthesis and characterization of CdS and CdTe nanoparticles for photovoltaic application”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP’15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015

232. Shahid Atiq, Omer Arif, Saira Riaz, Shahid M Ramay, Asif Mahmood and Shahzad Naseem, "Structural and dielectric analysis of M-type $\text{BaFe}_{12}\text{O}_{19}$ hexaferrites synthesized by sol-gel auto-combustion", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
233. Shahid Atiq, Omer Arif, M Burhan Shafqat, Murtaza Saleem, Saira Riaz and Shahzad Naseem, "Influence of sintering temperature on structural, morphological and magnetic properties of barium hexaferrite nanoparticles", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
234. Zohra N Kayani, Iqra Shah, Saira Riaz and Shahzad Naseem, "Role of Co doping on structural, optical and magnetic properties of ZnO nanoparticles", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
235. M Imran, M Khaleeq-ur-Rahman, Saira Riaz and Shahzad Naseem, "Controlled phase transition in titania nanoparticles –Effect of calcination temperature", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
236. M Azam, S Sajjad Hussain, Y-J Guo, Saira Riaz and Shahzad Naseem, "Influence of aluminum incorporation on iron oxide nanoparticles for high frequency application", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
237. Sumeera Shaheen, Saira Riaz, Arfan Bukhtiar, S Sajjad Hussain and Shahzad Naseem, "Tailoring the magnetic, dielectric and structural properties of cobalt doped $\alpha\text{-Fe}_2\text{O}_3$ nanoparticles", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
238. Farzana Majid, S Sajjad Hussain, Saira Riaz and Shahzad Naseem, "Size distribution and magnetic optimization of phase pure chromium doped magnetite nanoparticles", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
239. Sumeera Shaheen, M Khaleeq-ur-Rahman, Arfan Bukhtiar, Saira Riaz and Shahzad Naseem, "Exploration of structural and magnetic properties of iron oxide nanopowders for use in medical applications", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
240. Farzana Majid, Saira Riaz, M Farooq and Shahzad Naseem, "Mn Doped BiFeO_3 nanostructures with tunable magnetic and dielectric properties", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
241. Saira Riaz, Asif Mehmood, and Shahzad Naseem, "Size dependent ferromagnetism in bismuth iron oxide nanoparticles for magnetoelectric applications", Presented at the

242. Wajiha Arif, Saira Riaz, YB Xu and Shahzad Naseem, “Systematic variation in structural, magnetic and dielectric properties of BiFeO₃ nanoparticles by A Site substitution”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
243. Attia Awan, Saira Riaz and Shahzad Naseem, “Controlling the magnetic properties of bismuth iron oxide nanoparticles using thermal treatment”, Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), University of the Punjab, Lahore, Pakistan, December 13-17, 2015
244. Mahwish Bashir, Saira Riaz, M Akram Raza, Shahzad Naseem and Noureen Iqbal, “Stabilization of zirconia ceramics for dental coatings - Effect of aging conditions”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T2H.1.MR373_1548F1.pdf)
245. M Akram Raza, Zakia Kanwal, Saira Riaz and Shahzad Naseem, “Synthesis, characterization and antibacterial properties of nano-sized cobalt particles”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T2H.2.MR373_1375F1.pdf)
246. Zakia Kanwal, M Akram Raza, Saira Riaz and Shahzad Naseem, “Impact of chromium nanoparticles on haematological, immunological and histological parameters of *Labeo rohita*” Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T2H.3.MR373_1376F1.pdf)
247. Zakia Kanwal, M Akram Raza, Saira Riaz and Shahzad Naseem, “Changes in biochemical, haematological and histopathological parameters of freshwater fish *Labeo rohita* exposed to cobalt nanoparticles”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T2H.4.MR373_1377F1.pdf)
248. M Akram Raza, Zakia Kanwal, Saira Riaz and Shahzad Naseem, “Antibacterial performance of chromium nanoparticles against *Escherichia coli*, and *Pseudomonas aeruginosa*”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T2H.5.MR373_1378F1.pdf)
249. Zohra N Kayani, Saira Riaz, Shahzad Naseem and Rehana Zia, “Synthesis and characterization of Ni₂O₃ thin films”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-

September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3F.1.MR375_0772F1.pdf)

250. Aseyak Akbar, Saira Riaz, S Sajjad Hussain, Shahid Atiq, YB Xu and Shahzad Naseem, "Systematic magnetic and dielectric investigations of aluminum doped iron oxide thin films", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3F.2.MR375_1553F1.pdf)
251. M Adnan Naseer, Attia Awan, Saira Riaz, Shahid Atiq and Shahzad Naseem, "Tuning the dielectric & optical properties of BiFeO₃ thin films", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3F.3.MR375_1555F1.pdf)
252. Aseyak Akbar, Saira Riaz, Shahid Atiq, Zohra N Kayani and Shahzad Naseem, "Effect of 3d-Metal doping on ferromagnetic and dielectric properties of magnetite thin films", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28- September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3F.4.MR375_1556F1.pdf)
253. Aseyak Akbar, Saira Riaz, Shahid Atiq, Javaid Iqbal and Shahzad Naseem, "Impedance analysis of magnesium doped hematite thin films", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3F.5.MR375_1557F1.pdf)
254. Saira Riaz, Usman Khan, YB Xu, Shahzad Naseem and Attia Awan, "Effect of Fe₂O₃ on structural and magnetic properties of half metallic Fe₃O₄ thin films", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3F.6.MR375_1558F1.pdf)
255. Saira Riaz, Aseyak Akbar, Shahid Atiq, S Sajjad Hussain and Shahzad Naseem, "Thickness dependent magnetic and dielectric behavior of iron oxide thin films", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3F.7.MR375_1559F1.pdf)
256. Saira Riaz, Hassan Yousaf, Shumaila Islam, Zohra N Kayani and Shahzad Naseem, "Ex-situ variable angle spectroscopic ellipsometry of iron oxide thin films, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3F.8.MR375_1560F1.pdf)
257. Noreen Iqbal, Saira Riaz, Y-G Guo and Shahzad Naseem, "Sol-gel synthesis of biocompatible TiO₂ doped ZrO₂ nanoparticles", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-

September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3H.2.MR373_1456F1.pdf)

258. Saira Riaz, S Sajjad Hussain and Shahzad Naseem, “Structural and magnetic properties of monodispersed iron oxide nanoparticles for use in magnetic resonance imaging”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3H.3.MR373_1457F1.pdf)
259. Mahwish Bashir, Iqra Abbas, Y-J Guo, Saira Riaz and Shahzad Naseem, “Structural, morphological and mechanical properties of zirconia nanostructures for bone implantations”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3H.4.MR373_1458F1.pdf)
260. Mahwish Bashir, Iqra Abbas, Saira Riaz and Shahzad Naseem, “Effect of stirring rate on organic additives stabilized zirconia nanostructures”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T3H.5.MR373_1463F1.pdf)
261. Saira Riaz, Asif Hussain, Y-J Guo, M Khaleeq-ur-Rahman and Shahzad Naseem, “Influence of aluminum incorporation on iron oxide nanoparticles for high frequency applications”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.1.MR374_1551F1.pdf)
262. Saira Riaz, M Akram Raza, Shumaila Islam, Y-J Guo and Shahzad Naseem, “Enhancement of dielectric properties of methanol stabilized zirconia nanopowders”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.2.MR374_1552F1.pdf)
263. Sajid-ur-Rahman, Saira Riaz, S Sajjad Hussain, YB Xu and Shahzad Naseem, “Effect of oxidation time on electrodeposited iron aluminum oxide nanoparticles”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.3.MR374_1561F1.pdf)
264. Sobia Saher, M Khaleeq-ur-Rahman, Saira Riaz and Shahzad Naseem, “Structural investigation of stacked multilayer magnetic/nonmagnetic nanowires”, Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.4.MR374_1586F1.pdf)

265. Shumaila Islam, N Bidin, KN Abbas, Saira Riaz, Shahzad Naseem and G Krishnan, "Synthesis and characterization of optically active Zn-doped silica- titania nano-composites for sensing applications", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.5.MR374_0838F1.pdf)
266. Sajid-ur-Rehman, M Javaid Iqbal, Saira Riaz and Shahzad Naseem, "Fabrication and characterization of chemically prepared ZnO nanotubes based sensors", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.6.MR374_1615F1.pdf)
267. Shahid Atiq, S Kumail Abbas, Saira Riaz and Shahzad Naseem, "Frequency and temperature dependent electroactive regions in SrMnO_3 ", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.7.MR374_1152F1.pdf)
268. Shahid Atiq, M Hamza Assi, Shahid M Ramay, Saira Riaz and Shahzad Naseem, "Synthesis and characterization of Mg substituted CoFe_2O_4 magnetic photocatalysts", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.8.MR374_1154F1.pdf)
269. Hadia Noor, Natasha Tariq, Nimra Iqbal, Saira Riaz and Shahzad Naseem, "Effect of milling time on structural and dielectric properties of Al_2O_3 ", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.9.MR374_1466F1.pdf)
270. S Nudrat Humera, Hadia Noor, Saira Riaz and Shahzad Naseem, "Dielectric and structural analysis of barium titanate nanoparticles prepared by nano ball milling technique", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.10.MR374_1467F1.pdf)
271. Rida Ahmed, Saira Riaz, M Khaleeq-ur-Rahman and Shahzad Naseem, "Effect of pH on structural and dielectric properties of zirconia nanocrystallites", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.11.MR374_1468F1.pdf)
272. Mahwish Bashir, Aseya Akbar, Saira Riaz, Shahzad Naseem and Sobia Saher, "Magnetic and dielectric properties of methanol added $\text{Fe}_3\text{O}_4\text{-ZrO}_2$ nanocomposites", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/T4H.12.MR374_1477F1.pdf)

273. S Sajjad Hussain, Hadia Noor, Saira Riaz, M Asghar Hashmi and Shahzad Naseem, "UV Photoluminescence of ZnO nanostructures based thin films synthesized by sol gel method", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/W2H.1.MR372_1593F1.pdf)
274. M Tahir, Saira Riaz, M Akram Raza and Shahzad Naseem, "Systematic variation in structural and magnetic properties of BiFeO₃ nanoparticles by A-site substitution", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/W2H.4.MR372_1389F1.pdf)
275. M Tahir, Farzana Majid, Saira Riaz and Shahzad Naseem, "Size dependent ferromagnetism in bismuth iron oxide nanoparticles for magnetoelectric applications", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/W2H.5.MR372_1390F1.pdf)
276. Zaheer H Shah, Saira Riaz, Zohra N Kayani and Shahzad Naseem, "Size distribution and magnetic optimization of phase pure chromium doped magnetite nanoparticles", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/W2H.6.MR372_1392F1.pdf)
277. Attia Awan, Saira Riaz, Adeela Nairan, YB Xu and Shahzad Naseem, "Tunable magnetic and dielectric properties of BiFeO₃ nanoparticles – Effect of lanthanum doping", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/W2H.7.MR372_1408F1.pdf)
278. M Imran, Saira Riaz, Zohra N Kayani and Shahzad Naseem, "Study of magnetic and dielectric behaviour of Ni doped Fe₂O₃ nanopowders", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/W3H.1.MR372_1409F1.pdf)
279. M Imran, Rabia Akram, Saira Riaz, Zohra N Kayani and Shahzad Naseem, "Structural and magnetic properties of electrodeposited iron aluminum oxide nanostructures", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.i-asem.org/publication_conf/acem16/6.ICAM16/W3H.2.MR372_1410F1.pdf)
280. M Imran, S Mudassar Muzaffar, Saira Riaz and Shahzad Naseem, "Controlled phase transition in titania nanoparticles – Effect of calcination temperature", Presented at The

2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.iasem.org/publication_conf/acem16/6.ICAM16/W3H.3.MR372_1411F1.pdf)

281. S Mudassar Muzaffar, Sidra Khan, Saira Riaz and Shahzad Naseem, "Effect on structural orientation of ZnO nanorods by changing the molarity and reaction time", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.iasem.org/publication_conf/acem16/6.ICAM16/W3H.4.MR372_1412F1.pdf)
282. Saira Riaz, Shahzad Naseem and Usman Khan, "Investigation of exchange bias in iron oxide nanoparticles based multilayered structure", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.iasem.org/publication_conf/acem16/6.ICAM16/W3H.5.MR372_1431F1.pdf)
283. Zaheer H Shah, Saira Riaz, Zohra N Kayani and Shahzad Naseem, "Tailoring the magnetic, dielectric and structural properties of cobalt doped α -Fe₂O₃ nanoparticles", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea(http://www.iasem.org/publication_conf/acem16/6.ICAM16/W3H.7.MR372_1211F1.pdf)
284. SA Shabbir, S Shumaila, R Sharif, Saira Riaz and Shahzad Naseem, "Three dimensional transition solid elements for mesh gradation", Presented at The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM'16), August 28-September 1, 2016, ICC Jeju, Jeju Island, Korea (http://www.iasem.org/publication_conf/acem16/6.ICAM16/W3H.8.MR372_1253F1.pdf)
285. S Riaz, F Majid, S Naseem, "Structural, Dielectric and Magnetic Properties of Sol-gel synthesized Bi_{1-x}La_xFeO₃ Nanoparticles (x= 0.3)" Published in Nanotechnology (IEEE-NANO), 2016 IEEE 16th International Conference on Nanotechnology, 994-997, 2016, <http://ieeexplore.ieee.org/document/7751412/>

Conferences/Symposia/Workshops attended (47)

1. 3rd International Science Conference, University of Arid Agriculture, Murree Road, Rawalpindi, 2002
2. National Symposium on Nanotechnologies, Islamabad, November 4 – 5, 2002
3. Pakistan Physical Society 9th National Symposium on Frontiers in Physics, GC University, Lahore, February 19 – 21, 2003
4. One Day Seminar on “Creation of Wealth through Manufacturing Management”, Jointly Organized by The British Council and Institute of Quality & Technology Management, University of the Punjab, Lahore, 2005
5. Conference on “Nano-Science and Technology in Pakistan”, Islamabad, June, 2005
6. The Pakistan Institute of Physics (PIP), Annual Meeting, Lahore, August, 2005
7. One day Seminar on X-ray Diffraction, Department of Chemistry, Punjab University, Lahore, 2005
8. One day Seminar on “The innovative view into the world of Nanostructures”, Lahore, 2005
9. Workshop on Nano Magnetic Tunnel Junctions & Nano Contacts - 27-28 March 2006, Beijing, China, -by- Mizaki Group
10. One day Seminar on NanoFabrication-6th April 2006, Beijing, China
11. One day Seminar on “The Magnetic Tunnel Transistor” 10th April 2006
12. Seminars : Optimization of MgO Barrier in MTJs, 18-20th April, 2006, Beijing, China, -by- Irish Scientists in Collaboration with Stanford University and IBM
13. “5th International Conference on Magnetic Films and Nanomagnetism”, 13-15th May 2006, Suzhou, China.
14. International Workshop on Quantum Dynamics and Quantum Simulations, 25-29th May, 2006, Beijing, China
15. International Centre for Quantum Structures – 6th Annual Workshop, Beijing-Hangzhou, 5-10th June, 2006
16. 3-day workshop on “Fabrication and Optimization of Nano-Junctions with new Amorphous Ferromagnetic Layers for high density MRAM Applications” -by- Prof. Y. K. Kim, IOP, Beijing, 24-26th July, 2006
17. One day seminar on NSOM, organized by Noor Pvt. Ltd., Lahore, 2006
18. pMeeting on Nanosciences and Nanotechnology, IOP, CAS, Beijing, China – 4th June 2007

- 19.** One day Seminar on “Magnetization and Exchange Bias in Magnetic Multilayers” –by
- Prof. Zhang, Beijing, China, 8th June 2007
- 20.** “International Centre for Quantum Structures - 2007 Workshop on Nanomagnetism
and Spintronics”, Beijing-Shanghai, June 11 – 16, 2007
- 21.** One Day Seminar on “Silicon Spintronics” – by – Ian Appel Baum, Department of
Electrical and Computer Engineering, University of Delaware, Held at IOP, Beijing,
China, November 02, 2007
- 22.** Seminar on “Fact or Fiction: Our Ability to Travel Beyond the Boundaries of the Solar
System” –by- Selwyn Wright, a former Professor of Physics at Huddersfield University,
6th August, 2008, University of York, UK
- 23.** One Day Seminar on “Spin Transfer Effects in Systems with Perpendicular Anisotropy”
– by – Alina Deac from NIST Colorado USA, Held at DoP, University of York, UK,
September 24, 2008.
- 24.** One Day Seminar on “Short History of the Electron: From amber to GMR” – by – Peter
A. Gruenberg, Research Center Juelich, Germany, Held at DoP, University of York,
UK, October 29, 2008.
- 25.** PIP International Conference, University of Engineering and Technology, Lahore,
Pakistan, February 23 – 26, 2009.
- 26.** Workshop on the Orientation of New Faculty, Institute of Administrative Sciences,
Punjab Univerity, Lahore, Pakistan, June 22- 26, 2009.
- 27.** 2-days Workshop on the Use and Installation of KEITHLEY systems, School of
Physical Sciences, Punjab University, Lahore, February 27- 28, 2010
- 28.** “Solar Energy Exhibition”, Pearl Continental Lahore, Pakistan, March 23 – 25, 2010.
- 29.** “First National Symposium on Lasers”, Centre for Solid State Physics, Punajb
University, Lahore,
- 30.** May 13, 2010
- 31.** One Day National Meeting on “Nanotechnology Research in Pakistan”, Centre of
Excellence in Solid State Physics, Punjab University, August 03, 2010.
- 32.** Workshop on Nanomaterials and their Applications, LCWU, Lahore, April 19, 2012
- 33.** International Conference on Advances in Materials Reasearch (ICAMR’12), Seoul,
Korea, August 26 – 30, 2012.
- 34.** Workshop on Nanophotonics, December 01-07, 2012, ICTP, Italy
- 35.** International Conference on Advanced Materials and manufacturing Science
(ICAMMS) December 20-21, 2012, Beijing, China

- 36.** International Conference on Metallurgical Coatings and Thin Films (ICMCTF), San Diego, California, USA, April 28- May 03, 2013
- 37.** International Conference on Advanced Complex Inorganic Nanomaterials (ACIN), July 15 -19, 2013, Namur, Belgium
- 38.** World Congress on Advances in Nano- Biomechanics- Robotics and Energy Research (ANBRE), August 25-28, COEX, Seoul, Korea, 2013
- 39.** “International Conference on Solid State Physics (ICSSP’13)”, <http://www.icssp13.org.pk/> , Lahore, Pakistan, December 1-6, 2013.
- 40.** The 2014 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’14), August 24-28, 2014, BEXCO, Busan, Korea
- 41.** International Conference on Solid State Physics (ICSSP’15)”, <http://www.icssp15.org.pk/> , Lahore, Pakistan, December 13-17, 2015
- 42.** College on Multiscale Computational Modeling of Materials for Energy Applications, July 4 – 15, 2016, ICTP, Trieste. Italy
- 43.** International Vacuum Congress (IVC-20), August 24-28, 2016, BEXCO, Busan, Korea
- 44.** The 2016 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’16), August 28- Sep 02, 2016, ICC, Jeju, Korea
- 45.** International Conference on Solid State Physics (ICSSP’17)”, <http://www.icssp17.org.pk/> , Lahore, Pakistan, December 10-14, 2017
- 46.** The 2018 World Congress on Advances in Civil, Environmental and Materials Research (ACEM’18), August 27-31, 2018, Incheon, Korea
- 47.** International Conference on Solid State Physics (ICSSP’19)”, <http://www.icssp19.org.pk/> , Lahore, Pakistan, December 08-11, 2019