LIST OF PUBLICATIONS JOURNAL/ INTERNATIONAL CONFERENCE

PUBLICATION

JOURNAL

1. **S. S. Hussain,** V. Brien, H. Rinnert, P. Pigeat, "Influence of the magnetron power on the Er-related photoluminescence of AlN:Er films prepared by magnetron sputtering", **Phys. Status Solidi C** 7 No 1, (**2010**) 72-75

2. T. Easwarakhanthan, **S. S. Hussain**, P. Pigeat, "Spectroellipsometric Investigation of Optical, Morphological, and Structural Properties of Reactively Sputtered Polycrystalline AlN Films", ***Journal of Vacuum Science and Technology A (JVST A)***, 3 No 28, (**2010**) 495-501 **Impact Factor : 2.140**

3. H. Rinnert, **S. S. Hussain,** V. Brien, J. Legrand, P. Pigeat, "Photoluminescence properties of Er-doped AlN films prepared by magnetron sputtering", ***Journal of Luminescence*** 132 (**2012**) 2367–2370 **Impact Factor : 2.690**

4. M. A. Saeed, S. Riaz, **S. S. Hussain**, S. Naseem, "Structural and Optical Properties of Sol-Gel Derived $Zn_{1-x}Mn_xO$ Thin Films", **Advanced Science Letters,** 19 No 3, (**2013**) 789-794 **Impact Factor : 1.253**

5. Imran Sadiq, Shahzad Naseem, Saira Riaz, Hassan Mahmood Khan , Muhammad Naeem Ashiq, **S. Sajjad Hussain**, and Mazhar Rana, "Enhanced microwave absorption properties of CTAB assisted Pr-cu substituted Nanomaterial", **Journal of Magnetism and Magnetic Materials**, 414 (**2016)** 198–203
Impact Factor: 2.630

6. M. Hassan, R. Irfan, Saira Riaz, Shahzad Naseem, **S. Sajjad Hussain**, G. Murtaza "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,** Vol. 70, No. 5, **March 2017, pp.** 460∼464
Impact Factor: 0.467

7. Imran Sadiq, Shahzad Naseem, Saira Riaz, Hassan Mahmood Khan , **S. Sajjad Hussain**, Hasan M. Khan, Muhammad Naeem Ashiq, Mazhar Rana, "Study of structural, magnetic and microwave absorption properties of Dy-Mn substituted nanosized material in X-band frequency range", **Journal of Alloys and Compounds**, doi: 10.1016/ j.jallcom.2017.03.033. , 715 (2017) 284-290
Impact Factor: 3.300

8. A. Abid, M. Hassan, S**. Sajjad Hussain,** Saira Riaz, Shahzad Naseem, "Temperature-Dependent Phase Formation, Surface Morphological and Magnetic Studies of Bismuth Iron Oxide Grown by Co-precipitation Method", **Journal of Superconductivity and novel Magnetism.** DOI 10.1007/s10948-017-4067-8, 27 Mar 2017, 30 (2017) 2549-2554
Impact Factor: 1.180

9. M. Hassan, S. Younas, F. Sher, **S. Sajjad Hussain,** Saira Riaz, Shahzad Naseem, "Room temperature ferromagnetism in single-phase $Zn_{1-x}Mn_xS$ diluted magnetic semiconductors fabricated by co-precipitation technique", **Appl. Phys. A, 123 (2017) 352**, DOI 10.1007/s00339-017-0975-5

Impact Factor: 1.444

10. A. Asif, M. Hassan, S. Riaz, S. Naseem, **S. S. Hussain**, " Effects of Zr substitution on structural, morphological, and magnetic properties of bismuth iron oxide phases", **Chin. Phys. B, Vol. 26, No. 8 (2017) 087502**

Impact Factor: 1.630

11. S. Hanif , M. Hassan, S. Riaz , S. Atiq, S. S. Hussain, S. Naseem, G. Murtaza, "Structural, magnetic, dielectric and bonding properties of BiMnO3 grown by co-precipitation technique", **Results in Physics, 7 (2017) 3190-3195**

Impact Factor: 0.946

12. M. Hassan, M. Ghazanfar, N. Arooj, S. Riaz, S. S. Hussain, S. Naseem , "Structural, surface morphological and magnetic studies of $Zn_{1-x}Fe_xS$ (x = 0.00 - 0.10) diluted magnetic semiconductors grown by co-precipitation method", **Surface Review and Letters, Vol. 25, No. 1 (2018) 1850044**

Impact Factor: 0.734

13. Attia Awan, M Nadeem, Saira Riaz, S Sajjad Hussain, Farzana Majid, Shahzad Naseem , "Molarity Dependent Oscillatory Magnetic and Structural Behavior of Phase Pure BiFeO3 Sol-Gel Thin Films", **Ceramics International (2018) DOI:https://doi.org/10.1016/j.ceramint.2018.08.069**

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14. Imran Sadiq, Shahzad Naseem, Saira Riaz, S. Sajjad Hussain, Muhammad NaeemAshiq, "Preparation and characterization of doubly substituted microwave absorbing material by sol-gel technique for super high frequency applications", **Progress in Natural Science: Materials International, Vol 28, Issue 4, August (2018), 478-482**

Impact Factor: 2.572

15. Muhammad Akram Raza, Anam Habib, Zakia Kanwal, Syed Sajjad Hussain, Muhammad Javaid Iqbal, Murtaza Saleem, Saira Riaz, Shahzad Naseem, "Optical CO_2 Gas Sensing Based on TiO_2 Thin Films of Diverse Thickness Decorated with Silver Nanoparticles", **Advances in Materials Science and Engineering, Article ID 2780203, 12 pages, https://doi.org/10.1155/2018/278020325 (2017) 1850044 Impact Factor: 1.372**

Materials Today: Proceedings (ICSSP13)

16. S. Riaz, M. Bashir, **S. S. Hussain**, S. Naseem, "Effect of Mn doping concentration on the structural & magnetic properties of sol-gel deposited ZnO diluted magnetic semiconductor", Amsterdam, The Netherlands: **Atlantis Press**, **(2013)**, 518-522

17. Haroon M. Jaral, **S. Sajjad Hussain**, Saira Riaz, Shahzad Naseem "Effect of annealing on structural and magnetic properties of magnetite Fe_3O_4 thin films using radio frequency magnetron sputtering", **Materials Today: Proceedings ISSN: 2214-7853,** 2 (**2015**) 5601 – 5606

18. **S. S. Hussain**, Philippe Pigeat, "Effect of annealing on the Photoluminescence of Er doped AlN thin films grown by PVD magnetron sputtering (RF)", **Materials Today: Proceedings ISSN: 2214-7853,** 2 (**2015**) 5236 – 5240

19. Manzar Mashaf 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". **Materials Today: Proceedings ISSN: 2214-7853,** 2 (**2015**) 5400 – 5404

20. Robina Ashraf*, Saira Riaz, **S. Sajjad Hussain**, Shahzad Naseem, "Effect of pH on properties of ZnO nanoparticles", **Materials Today: Proceedings ISSN: 2214-7853,** 2 (**2015**) 5754 – 5759

21. Aseya Akbar*, Saira Riaz, **S. Sajjad Hussain**, Shahzad Naseem, "Magnetic properties of sol-gel deposited magnetite thin films", **Materials Today: Proceedings ISSN: 2214-7853,** 2 (**2015**) 5395 – 5399

22. Muhammad Ashraf, **S. Sajjad Hussain**, Saira Riaz, Shahzad Naseem, "Preparation and characterization of ZnCdS and CdTe thin films by PVD for photovoltaic applications", **Materials Today: Proceedings ISSN: 2214-7853,** 2 (**2015**) 5695 – 5699

23. Muhammad Habib, **S. Sajjad Hussain**, Saira Riaz, Shahzad Naseem, "Preparation and characterization of ZnO nanowires and their applications in CO_2 gas sensors", **Materials Today: Proceedings ISSN: 2214-7853,** 2 (**2015**) 5714 – 5719

24. S Mazhar H Shah, Saira Riaz, **S Sajjad Hussain**, Shahid Atiq, Shahzad Naseem, "Structural, Magnetic and Dielectric Properties of Ba Doped $BiFeO_3$ Thin Films", **Materials Today: Proceedings ISSN: 2214-7853,** 2 (**2015**) 5654 – 5659

25. Raja Shehryar Ali, **S. Sajjad Hussain**, Saira Riaz, Shahzad Naseem, "Structural, optical and electrical characterization of Fe_3O_4 thin films prepared using PVD magnetron sputtering (RF)", **Materials Today: Proceedings ISSN: 2214-7853,** 2 (**2015**) 5543 – 5547

26. **S. Sajjad Hussain**, Philippe Pigeat, "Time-resolved spectroscopy of Er doped AlN thin films with columnar and nanogranular morphologies grown by PVD magnetron sputtering (RF)", **Materials Today: Proceedings ISSN: 2214-7853,** 2 (**2015**) 5361 – 5364

INTERNATIONAL CONFERENCE

27. V. Brien, M. Dossot, H. Rinnert, **S. S. Hussain,** B. Humbert, P. Pigeat, "Optical Characterization of Nanocrystallized AlN and AlN:Er Films Prepared by Magnetron Sputtering", **Mater. Res. Soc. Symp. Proc. 111-D02-03 (2009),** ***International Conference MRS Fall Meeting,*** **11-16** th December, **2008,** Boston **USA.**

28. S. Farooq, **S. S. Hussain**, S. Riaz, S. Naseem, " ZnO / c-Si Solar cell Fabricated through Sol-Gel and Spin Coating", ***World congress on Advances in, Civil, Environmental, and materials Research****(ACEM 12), August 26-29, 2012,* ***ISBN 978-89-89693-34-5-98530,*** Proc. The 2012 Intl. Conf. on Adv. In Mater. Res. (ICAMR), (http://www.i-asem.org/acem12_publication.html), ***Seoul, Korea.***

29. S. Riaz, Mehwish Bashir, **S. S. Hussain**, S. Naseem, "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***

30. Saira Riaz, **S. S. Hussain,** Shahzad Naseem, "Preparation and Characterization of Cu – ZnTe Thin Films," Proc. ***World congress on Advances in, Nano, Biomechanics, Robotics, and Energy Research*** *(ANBRE13), August 25-28, 2013,* ***ISBN 978-89-89693-36-9- 93420, Seoul, Korea.*** (http://www.i-asem.org/anbre13_publication.html)

31. Saira Riaz, Aseya Akbar, **S. S. Hussain,** Shahzad Naseem, "Magnetic and Magnetization Properties of Sol-Gel deposited Magnetite Thin Films," ***The 3rd International symposium on Advanced Magnetic Materials and Applications*** *(ISAMMA), July 21-25,* ***2013,*** *Taichung,* ***Taiwan***

32. S. Honey, S. Riaz,, **S. S. Hussain**, S. Naseem, " Effect of Calcination on Phase transition in Titania Nanoparticles", *World congress on Advances in, Civil, Environmental, and materials Research (ACEM 14), 24-28,* ***ISBN 978-89-89693-38-3- 93530,*** *Aug* ***2014,*** BEXCO, Busan, **Korea.** (http://www.i-asem.org/acem14_publication.html)

33. M. Akhtar, S. Riaz,, **S. S. Hussain**, S. Naseem, " Magnetic properties of un-doped and Fe-doped ZnS thin films", *World congress on Advances in, Civil, Environmental, and materials Research (ACEM 14), 24-28,* ***ISBN 978-89-89693-38-3- 93530,*** *Aug* ***2014,*** BEXCO, Busan, **Korea.** (http://www.i-asem.org/acem14_publication.html)

34. A. Akbar, S. Riaz,, **S. S. Hussain**, Z Kayani, S. Naseem, " Effect of Co Doping on Structural Properties of Hematite Thin Films", *World congress on Advances in, Civil, Environmental, and materials Research (ACEM 14), 24-28 Aug* ***2014, ISBN 978-89-89693-38-3- 93530,*** BEXCO, Busan, **Korea**(http://www.i-asem.org/acem14_publication.html)

35. A. Akbar, S. Riaz,, S. Naseem, **S. S. Hussain**, " Effect of Al doping on Structural and Magnetic Properties of Iron oxide Thin Films prepared by Sol-Gel Method", *World congress on Advances in, Civil, Environmental, and materials Research (ACEM 14), 24-28,* ***ISBN 978-89-89693-38-3- 93530,*** *Aug* ***2014,*** BEXCO, Busan, **Korea.** (http://www.i-asem.org/acem14_publication.html)

36. **S. Sajjad Hussain**, Farman Ullah Khan, Saira Riaz, Shahzad Naseem, "Sol-Gel Prepared and Spin Coated TiO2 Thin Films for DSSC: Optical and Structural Properties", Proceedings: International Conference Sustainable Materials Science and Technology, **Paris (France), 15-17 July 2015**

37. **S. Sajjad Hussain**, Muhammad Imran , Saira Riaz, Shahzad Naseem, "Variations in Structural and Magnetic Properties of Sol-Gel deposited Hematite – Dependence on Annealing Conditions", Proceedings: International Conference Sustainable Materials Science and Technology, **Paris (France), 15-17 July 2015**

38. Suniya Siddique, **S Sajjad Hussain**, Saira Riaz and Shahzad Naseem, "Structural and magnetic characterization of electrodeposited magnesium iron oxide thin films", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

39. Ali Hassan, **S Sajjad Hussain**, Saira Riaz and Shahzad Naseem, "Optical tailoring of RF magnetron sputtered ZnO thin films", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

40. Hadia Noor, Saira Riaz, **S Sajjad Hussain** and Shahzad Naseem, "Phase controlled magnetization in Bi-Fe-Ox multiferroic thin films", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

41. Hadia Noor, Saira Riaz, **S Sajjad Hussain** and Shahzad Naseem, "Dispersion studies of lanthanum substituted BiFeO3 thin films", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

42. Aseya Akbar, Saira Riaz, **S Sajjad Hussain** and Shahzad Naseem, "Magnetic nano films of Cr doped iron oxide for magnetic random access memories", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

43. Misbah Ghazanfer, Nooria Arooj, Mahmood Hassan, **S Sajjad Hussain**, Saira Riaz and Shahzad Naseem, "Structural, magnetic and surface morphological studies of Zn1-xFexS grown by co-precipitation", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

44. Bushra Parveen, Zeeshan Khalid, Fatima Aslam, Mahmood Hassan, **S Sajjad Hussain**, Saira Riaz and Shahzad Naseem, "Morphological and structural characterization of Ni doped TiO2 thin film with room temperature ferromagnetism", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

45. Waqar Azeem, **S Sajjad Hussain**, Shahid Atiq, Saira Riaz and Shahzad Naseem, "Calcination mediated size depenedent magnetic and dielectric properties of potassium doped bismuth iron oxide nanopowders", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

46. Abdullah Abid, Mahmood Hassan, **S Sajjad Hussain**, Saira Riaz and Shahzad Naseem, "Temperature dependence of structural, morphological, electrical and magnetic properties of BiFeO3 prepared by co-precipitation method", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

47. M Tahir, Saira Riaz, **S Sajjad Hussain**, Shahid Atiq, M Farooq and Shahzad Naseem, "Dependence of dielectric anf optical [roperties on Ni3+ doping in multiferroic $BiFeO_3$ thin films", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

48. M Tahir, Saira Riaz, Shahid Atiq, **S Sajjad Hussain** and Shahzad Naseem, "Tuning the dielectric and optical properties of bismuth iron oxide thin films", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

49. Asif Hussain, Saira Riaz, Shahid Atiq, **S Sajjad Husain** and Shahzad Naseem, "Role of Fe3+/Fe2+ on magnetization and dielectric properties of sol-gel deposited magnetite thin films", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

50. Saima Younas, Mahmood Hassan, Falak Sher, **S Sajjad Hussain,** Saira Riaz and Shahzad Naseem, "Synthesis of single phase Zn1-xMnxS and study of structural, ferromagnetic and surface morphological characteristics", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

51. Saira Riaz, **S Sajjad Hussain**, M Asghar Hashmi, Hadia Noor and Shahzad Naseem, "UV photoluminescence of ZnO thin films synthesized by Sol-Gel method", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

52. Riffat Irfan, Mahmood Hassan, Ghulam Murtaza, **S Sajjad Hussain**, Saira Riaz and Shahzad Naseem, "Structural, ferromagnetic and surface morphological properties of Zn1-xZrxO fabricated by co-precipitation method", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

53. 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**

54. Sumeera Shaheen, Saira Riaz, Arfan Bukhtiar, **S Sajjad Hussain** and Shahzad Naseem, "Tailoring the magnetic, dielectric and structural properties of cobalt doped α-Fe_2O_3 nanoparticles", Presented at the International Conference on Solid State Physics – 2015 (ICSSP'15), **University of the Punjab, Lahore, Pakistan, December 13-17, 2015**

55. 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**

56. Saira Riaz, Aseya Akbar, **S Sajjad Hussain**, Shahzad Naseem, "Systematic Magnetic and Dielectric Investigations of Aluminum Doped Iron Oxide Thin Films", **(ACEM16) The 2016 World Congress on Advances in Civil, Environmental, and Materials Research, http://acem16.com/, Jeju island, Korea on August 28 - September 1, 2016.**

57. Saira Riaz, **S Sajjad Hussain,** Aseya Akbar,Shahid Atiq, Shahzad Naseem, " Thickness Dependent Magnetic and Dielectric Behavior of Iron Oxide Thin Films", **(ACEM16) The 2016 World Congress on Advances in Civil, Environmental, and Materials Research, http://acem16.com/, Jeju island, Korea on August 28 - September 1, 2016.**

58. Saira Riaz, **S Sajjad Hussain**, Shahzad Naseem, "Structural and Magnetic Properties of Monodispersed Iron Oxide Nanoparticles for use in Magnetic Resonance Imaging", **(ACEM16) The 2016 World Congress on Advances in Civil, Environmental, and Materials Research, http://acem16.com/, Jeju island, Korea on August 28 - September 1, 2016.**

59. **S Sajjad Hussain**, Saira Riaz, Hadia Noor, Asghar Hashmi, Shahzad Naseem, "UV Photoluminescence of ZnO Nanostructures Based Thin films synthesized by Sol Gel method", **(ACEM16) The 2016 World Congress on Advances in Civil, Environmental, and Materials Research, http://acem16.com/, Jeju island, Korea on August 28 - September 1, 2016.**

60. M Tahir, Attia Awan, Saira Riaz, **S Sajjad Hussain**, Zohra N Kayani, and Shahzad Naseem, "Structural and Magnetic Phase Transition in BFO Nanoparticles-Role of Calcination Temperature", **The 2018 World Congress on Advances in Civil, Environmental, & Materials Research (ACEM18) Songdo Convensia, Incheon, Korea, August 27 - 31, 2018.**

61. M Imran, Aseya Akbar, Saira Riaz, M Akram Raza, **S Sajjad Hussain,** Y B Xu, and Shahzad Naseem, , "Inverse Spinel Iron Oxide Nanoparticles - Tunable Structural and Magnetic Properties", **The 2018 World Congress on Advances in Civil, Environmental, & Materials Research (ACEM18) Songdo Convensia, Incheon, Korea, August 27 - 31, 2018.**

62. **S Sajjad Hussain,** Ghulshan Ayub, Saira Riaz, Shahid Atiq and Shahzad Naseem, "Structural and Dielectric Investigation of Spin Coated AlN Thin Films by Sol-Gel Route", **The 2018 World Congress on Advances in Civil, Environmental, & Materials Research (ACEM18) Songdo Convensia, Incheon, Korea, August 27 - 31, 2018.**

63. Hassan Yousaf, Saira Riaz, **S. Sajjad Hussain**, Zohra N Kayani, Shahzad Naseem, "Structural and Optical Properties of Spin Coated Iron Oxide Thin Films – Effect of Mn Doping", **The 2018 World Congress on Advances in Civil, Environmental, & Materials Research (ACEM18) Songdo Convensia, Incheon, Korea, August 27 - 31, 2018.**

64. M Nadeem, S Sajjad Hussain, Saira Riaz, Shahid Atiq, Farzana Majid and Shahzad Naseem, "Frequency Dependent Relaxation Process and Magnetization in $Bi_{0.8}K_{0.2}FeO_3$ Nanopowders", **The 2018 World Congress on Advances in Civil, Environmental, & Materials Research (ACEM18) Songdo Convensia, Incheon, Korea, August 27 - 31, 2018.**

CONFERENCE PARTICIPATION
(Invited talk/ Oral/ Poster/ WORKSHOP/ SEMINARS)

INTERNATIONAL CONFERENCE

1. Oral Presentation: **International Conference MRS Fall Meeting**, on "Optical Characterization of Nanocrystallized AlN and AlN:Er Films Prepared by Magnetron Sputtering", V. Brien, M. Dossot, H. Rinnert, **S. S. Hussain,** B. Humbert, P. Pigeat, 5th December, **2008**, Boston, **USA**.
2. Oral Presentation: **Journée des Doctorants du LPMIA**, " Réalisation de Dépôts par Plasma Magnétron de Film AlN Dopé Er, pour l'étude de L'influence de la Nano Cristallisation sur les Propriétés Optiques", **S.S. Hussain**, V. Brien, H. Rinnert, P. Miska, P. Pigeat, 3rd July, 2008, **Nancy France**.
3. Oral Presentation: **E-MRS 2009 Spring Meeting**, on "Influence of Magnetron Power on the Infra-red Photoluminescence of Nanostructured Magnetron Sputter Deposited AlN:Er Films", **S. S. Hussain,** V. Brien, H. Rinnert, P. Pigeat, 8-12 June, **2009**, Strasbourg**France.**
4. Oral Presentation: **12th International Symposium on Advanced Materials** on "Influence of Annealing Treatment on Near Infrared Photoluminescence of Er Doped AlN Thin Films with Columnar Morphology", **S. S. Hussain**, December, **2011**, Islamabad, **Pakistan.**

5. Oral Presentation: **2nd International Conference on Semiconductor Materials and Nano-Devices (ICSMAND-2011) IUB, Pakistan** on "Time-resolved Spectroscopy Er Doped AlN Thin Films with Columnar and Nanogranular Morphologies Grown by PVD Magnetron Sputtering" S.S. Hussain, 10-12 October **2011**, **Pakistan**

6. Oral Presentation: **The 2012 World Congress on Advances in Civil, Environmental, and Materials Research (ACEM' 12),** " ZnO / c-Si Solar cell Fabricated through Sol-Gel and Spin Coating". ***August 26-30,* 2012, *Seoul,* Korea.**

7. Oral Presentation: **International Confrence on Information , Business and Education Technology (ICIBET 2012),** "Effect of Mn-doping Concentration on the Structural & Magnetic Properties of Sol-Gel Deposited ZnO Diluted Magnetic Semiconductor". ***December 20-21,* 2012, *Beijing,* China.**

8. Oral Presentation: **World congress on Advances in, Nano, Biomechanics, Robotics, and Energy Research (ANBRE13),** "Preparation and Characterization of Cu – ZnTe Thin Films, Saira Riaz, **S. S. Hussain**, Shahzad Naseem ", ***August 25-28,* 2013**, ***Seoul,* Korea**

9. **Invited talk: "International Conference on Solid State Physics (ICSSP'13)"** " Effect of annealing on the Photoluminescence of Er doped AlN thin films grown by PVD magnetron sputtering (RF)", **02 – 06 December, 2013 Lahore, Pakistan.**

10. Oral Presentation: **"International Conference on Solid State Physics (ICSSP'13)" ,** "Time-resolved spectroscopy of Er doped AlN thin films with columnar and nanogranular morphologies grown by PVD magnetron sputtering(RF)", **02 – 06 December, 2013 Lahore, Pakistan**

11. Oral Presentation: **The 2014 World Congress on Advances in Civil, Environmental, and Materials Research (ACEM' 14),** "Effect of Co Doping on Structural Properties of Hematite Thin Films". ***24-28 Aug 2014,* BEXCO, Busan, Korea.**

12. Oral Presentation: **The 2014 World Congress on Advances in Civil, Environmental, and Materials Research (ACEM' 14),** "Effect of Al doping on Structural and Magnetic Properties of Iron oxide Thin Films prepared by Sol-Gel Method". ***24-28 Aug 2014,* BEXCO, Busan, Korea.**

13. Oral Presentation: **International Conference Sustainable Materials Science and Technology, (SMST),** "Sol-Gel Prepared and Spin Coated TiO2 Thin Films for DSSC: Optical and Structural Properties", **Paris (France), 15-17 July 2015**

14. Poster Presentation: **International Conference Sustainable Materials Science and Technology, (SMST),** "Variations in Structural and Magnetic Properties of Sol-Gel deposited Hematite – Dependence on Annealing Conditions", **Paris (France), 15-17 July**

2015

15. Oral Presentation: **(ACEM16) The 2016 World Congress on Advances in Civil, Environmental, and Materials Research, http://acem16.com/, Jeju island, Korea on August 28 - September 1, 2016.**

16. Oral Presentation: **The 2018 World Congress on Advances in Civil, Environmental, & Materials Research (ACEM18) Songdo Convensia, Incheon, Korea, August 27 - 31, 2018.**

17. Poster Presentation: **10th Conference of Plasmas Division of the French Physical Society (SFP)**, on "Influence of Polarisation of Substrat on Photoluminescence of AlN :Er Films Prepared by PVD Magnetron rf", **S.S. Hussain,** V. Brien, H. Rinnert, P. Miska, P. Pigeat, 19th-21st May, 2008, **Paris France.**

18. Poster Presentation: **Doctoriales de Lorraine**, on **"** Elaboration, characterization structural and luminescence of Er doped AlN thin film deposition obtained by PVD magnetron RF", **S. S. Hussain,** V. Brien, H. Rinnert, P. Pigeat, 17th-21st May, 2010, **Ventron France.**

19. Poster Presentation: **Journée Scientifique STAN**, on "Influence of Polarisation of Substrat on Photoluminescence of AlN :Er Films Prepared by PVD Magnetron RF", **S.S. Hussain**, V. Brien, H. Rinnert, P. Miska, P. Pigeat, 3rd April, 2008, UHP **Nancy 1 France**.

20. Poster Presentation: **Journées Surface et Interfaces**, on "Influence of Polarisation of Substrat on Photoluminescence of AlN :Er Films Prepared by PVD Magnetron RF", **S.S. Hussain,** V. Brien, H. Rinnert, P. Miska, P. Pigeat, 27th-29th January, 2009, UHP **Nancy 1 France.**

21. Poster Presentation: **One Day Conference of L'Ecole Doctorale EMMA 2010**, on "Elaboration, Characterization Structural and Luminescence of Er Doped AlN Thin Film Deposition Obtained by PVD Magnetron RF", **S. S. Hussain,** V. Brien, H. Rinnert, P. Pigeat, 10th June, 2010, **UHP Nancy 1 France.**

22. PARTICIPATION : **One Day Conference of L'Ecole Doctorale EMMA 2008**, 15th May, 2008, UHP **Nancy 1 France**.

23. PARTICIPATION: **36th and 37th, International Nathiagali Summer College (INSC)** on Physics and Contemporary Needs. July 2011 and 2012, Nathiagali, **Pakistan.**

24. PARTICIPATION: **2nd International Conference on Semiconductor Materials and Nano-Devices**, (10-12) October, 2011, at the Islamia University of Bahawalpur, **Pakistan.**

25. PARTICIPATION: **12th international symposium on advanced materials**, NCP, 26-30 September 2011, **Islamabad, Pakistan.**

NATIONAL CONFERENCE

- Oral Presentation: **PIP Conference–2011**, on "Influence of Er Concentration on Near Infrared and Visible Photoluminescence of Er-doped AIN Thin Films", **S. S. Hussain**, 28th-31st March, 2011, Pakistan Institute of Physics Lahore **Pakistan**

WORKSHOP

- ***One day workshop on Lasers and Nanotechnology, Department of Physics, UET****, June 14, 2012, Lahore,* ***Pakistan.***

- ***International School on New Trends in Quantum Information Theory,*** *Department of Physics, Syed Babar Ali School of Science and Engineering, LUMS,* ***Sept 12-13, 2014****, Lahore,* ***Pakistan.***

- **36th and 37th, International Nathiagali Summer College (INSC)** on Physics and Contemporary Needs. **July 2011 and 2012**, Nathiagali, **Pakistan.**

- ***Winter College on Optics: Optical Frequency Combs (15-26 February 2016)*** *the Abdus Salam, International Centre for Theoretical Physics,* ***ICTP, Trieste – ITALY***

- **2 Days Workshop on: "Patent Filling & Introduction to Intellectual Property System of Pakistan "**, **17-18 May 2017**. Organized by ORIC, Khorana Hall, Institute of Chemistry, University of the Punjab, Lahore, **Pakistan**.

SEMINARS

- Oral Presentation: on "Elaboration, Characterization Structural and Luminescence of Er Doped AlN Thin Film Deposition Obtained by PVD Magnetron RF", **S. S. Hussain**, 15th February 2011, Center of Excellence in Solid State Physics University of the Punjab **Lahore Pakistan.**