

CURRICULUM VITAE

AMEEQ FAROOQ

Mailing Address: Institute of Metallurgy and Materials Engineering, Faculty of Chemical and Materials Engineering, University of the Punjab, Lahore - 54590, Pakistan

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Working Experience

- **Assistant Professor** (March 2023 to Present)
Institute of Metallurgy and Materials Engineering, Faculty of Chemical and Materials Engineering, University of the Punjab, Lahore-54590, Pakistan.
- **Lecturer** (March 2018 to March 2023)
Institute of Metallurgy and Materials Engineering, Faculty of Chemical and Materials Engineering, University of the Punjab, Lahore-54590, Pakistan.
- **Research Officer (RO)** (January 2012 to March 2018)
Department of Metallurgy and Materials Engineering, College of Engineering & Emerging Technologies, University of the Punjab, Lahore-54590, Pakistan.
- **Research Engineer (RE)** (March 2010 to January 2012)
Joint research project between Institute of Chemical Engineering and Technology (ICE&T) and Sui Northern Gas Pipeline Limited (SNGPL) entitled "Mitigation of Internal Corrosion of Steel-Pipes due to CO₂, H₂S and Bacteria".

Educational Qualification

- **PhD. (Metallurgy & Materials Engineering)** 2015 – 2023
University of the Punjab, Lahore
- **Master of Science (Metallurgy & Materials Engineering)** 2010 – 2012
University of the Punjab, Lahore
- **Bachelor of Science (Metallurgy & Materials Engineering)** 2005 – 2009
University of the Punjab, Lahore

Research Interests

- Corrosion Science and Engineering
- Surface Engineering and Tribology
- Coatings Technology
- Welding and Joining processes

Professional Trainings /Internship

- NFTC Outcome-based Engineering Education Training, April 13-14, 2023
- Training Workshop on Dielectric Measurements and Calculations, March 02, 2023
- Intellectual Property and Patent Filing, February 22, 2023
- Faculty-Wise Training Workshop on Prepare Self Assessment Report (SAR), January 11, 2023
- Workshop on Outcome Based Education (OBE), July 26, 2022
- NFTC Outcome-based Engineering Education Training, June 11-12, 2021
- Pandat Software Training, April 26-29, 2021
- A Practical Introduction to wavelength Dispersive Spectrometry (WDS) and AztecWave, April 14, 2021
- Workshop on Reverse Engineering, March 15-16, 2021
- Webinar on Entrepreneurship for Engineers, March 10, 2021
- Practical Case Study for Implementation of API RP 2SIM Based SIMS for Off-shores Structures, October 17, 2020
- Training on Metallography and Microstructure 'Grain Size: Then and Now', June 23, 2020
- Compositional and Structural Analysis of thin films in the SEM using EDS, May 27, 2020
- Workshop on Materials Characterization, December 03 – 05, 2018
- Workshop on Surfaces, Coatings, Corrosion & Applications, March 07– 08, 2018
- IRCBM 4th Dental and Bio-Materials Summer Camp, July 31 – August 03, 2018
- 16th Annual Short course on Cathodic Protection of Pipelines, Storage Tanks and Well casings, March 29 – April 01, 2016
- Industrial Training in Fiber-Tech Composites, July 01 – 31, 2008

Instructor (Continued Education)

- **Industrial Corrosion – Monitoring and Prevention**, May 23 – 24, 2022 held at National Center for Failure Analysis (NCFA), Institute of Space Technology, Islamabad
- **Industrial Corrosion – Monitoring and Prevention**, August 30 – 01 September, 2021 held at Failure Analysis Center (FAC), Institute of Space Technology, Islamabad
- **Industrial Corrosion – Monitoring and Prevention**, October 19 – 21, 2020 held at Failure Analysis Center (FAC), Institute of Space Technology, Islamabad

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- 19th Annual Short course on **Basic Principles of Corrosion Control and Cathodic Protection Technology**, March 25 – 27, 2019, held at Department of Metallurgy and Materials Engineering, University of the Punjab, Lahore
 - 18th Annual Short course on **Basic Principles of Corrosion Control and Cathodic Protection Technology**, March 26 – 28, 2018, held at Department of Metallurgy and Materials Engineering, College of Engineering and Emerging Technology, University of the Punjab, Lahore
 - 18th Annual Short course on **Cathodic Protection System for Pipelines, Storage Tanks, Well Casing and Buried Plant Facilities (Advance Level)**, April 02 – 04, 2018, held at Department of Metallurgy and Materials Engineering, College of Engineering and Emerging Technology, University of the Punjab, Lahore
 - 17th Annual Short course on **Principles of Corrosion Control and Cathodic Protection Technology**, March 20 – 22, 2017, held at Department of Metallurgy and Materials Engineering, University of the Punjab, Lahore
 - 16th Annual Short course on **Fundamentals of Corrosion and Cathodic Protection Technology**, March 21 – 24, 2016, held at Department of Metallurgy and Materials Engineering, College of Engineering and Emerging Technology, University of the Punjab, Lahore

Invited Talks

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- ‘**Corrosion Testing**’ in **Workshop on Corrosion and its Prevention**, November 28 – 24, 2022, held at Institute of Metallurgy and Materials Engineering, Faculty of Chemical and Materials Engineering, University of the Punjab, Lahore
 - ‘**Training on Electrochemical Corrosion Testing**’, August 28, 2019, Pakistan Institute of Technology for Minerals and Advanced Engineering Materials (PITMAEM), Pakistan Council of Scientific and Industrial Research, Laboratory Complex, Lahore
 - ‘**Corrosion Testing**’ in **Workshop on Corrosion and its Prevention**, November 28 – 30, 2016, held at NINAST, National Centre for Physics (NCP), Quaid-e-Azam University, Islamabad

Honors & Awards

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- Research Incentive Award– **2021**; University of the Punjab, Lahore
PKR. 1,18,607/-
 - Research Grant for Fiscal Year **2022–2023**; University of the Punjab, Lahore
PKR. 2,00,000/-
 - Awarded Certificate of Appreciation from **European Federation of Corrosion (EFC)** for organizing **Corrosion Awareness Day 2022**
 - Research Grant for Fiscal Year **2021–2022**; University of the Punjab, Lahore
PKR. 2,00,000/-
 - Performance Evaluation Award– **2019**; University of the Punjab, Lahore
PKR. 18,932/-

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- Research Incentive Award– **2020**; University of the Punjab, Lahore **PKR. 54,548/-**
 - Performance Evaluation Award– **2018**; University of the Punjab, Lahore **PKR. 16,000/-**
 - Awarded Certificate of Appreciation from **European Federation of Corrosion (EFC)** for organizing **Corrosion Awareness Day 2021**
 - NACE International **Distinguished Service Award 2021**
 - Awarded Certificate of Appreciation from **European Federation of Corrosion (EFC)** for organizing **Corrosion Awareness Day 2020**
 - Research Incentive Award– **2019**; University of the Punjab, Lahore **PKR. 22,500/-**
 - Research Incentive Award– **2018**; University of the Punjab, Lahore **PKR. 69,714/-**
 - Research Incentive Award– **2016**; University of the Punjab, Lahore **PKR. 15,750/-**
 - Research Grant for Fiscal Year **2019–2020**; University of the Punjab, Lahore **PKR. 1,25,000/-**
 - Travel Grant awarded for Oral Paper presentation at **2019 NACE Northern Area Western Conference**, held on February 05 – 07, 2019 in Calgary, Alberta, Canada by Higher Education Commission (HEC) Pakistan **CAD \$ 3,613/-**
 - Travel Grant awarded for oral Paper presentation at **Electrochemical Methods in Corrosion Research (EMCR-2018)**, held on July 22 – 27, 2018 in Robinson College, University of Cambridge, UK by Punjab Higher Education Commission (PHEC) Pakistan **US \$ 3106/-**

Professional Services

- Member of Board of Studies Faculty of Chemical and Materials Engineering **(2021 – to-date)**
- Secretary of AMPP Pakistan Chapter **(2021 – to-date)**
- Secretary of NACE Islamabad Pakistan Section **(2018 – 2021)**
- Executive Member of Society of the Corrosion Engineers Pakistan (SOCEP)
- The Reviewer of many International Journal like Corrosion Science, Materials Research Express, Materials and Corrosion, Materials Today Communication, Scientific Reports and Journal of Rare Earths

Professional Affiliations

- Pakistan Engineering Council (**PEC**) [Registration No: **METAL/3123**]
- The Association for Materials Protection and Performance (**AMPP**) Young Professional Membership [AMPP Membership No.: **1815733**]
- The Institute of Corrosion (**I_{corr}**) Membership (International Society for Corrosion Engineers) [I_{corr} Membership No.: **206363**]
- Society of Corrosion Engineers Pakistan (**SOCEP**) [Membership No.: **M-106**]
- Member of International Corrosion Council (**ICC**)

List of Research Publications

Total IF= 120.04* ; Total Number of Citations = 416 ; h- index = 12 ; i10- index = 13

** Impact factor (IF) according to Journal Citation Report (JCR) 2022*

(Updated on May 15, 2023)

1. **Structural, morphological, mechanical and electrochemical properties of 532 nm Nd:YAG laser-irradiated vanadium at high fluence**
Rehman Iftikhar, Mohsin Rafique, M. Z. Butt, Naveed Afzal, Shazia Bashir, Farooq Bashir, Khaliq Mehmood, **Ameeq Farooq**
Applied Physics A (2023) 129:269
2. **Effect of Bacillus and Pseudomonas biofilms on the corrosion behavior of AISI 304 stainless steel**
Hafiz Zeeshan Wadood, Aruliah Rajasekar, **Ameeq Farooq**, Kashif Mairaj Deen
International Journal of Materials Research, 114(2), 2023, 118 – 126
3. **Comparison of the Properties of Additively Manufactured 316L Stainless Steel for Orthopedic Applications: A Review**
M. Nabeel, **A. Farooq**, S. Miraj, U. Yahya, K. Hamad, K. M. Deen
World Scientific Annual Review of Functional Materials, 2022, 2230001
4. **Biodegradable properties of AZ31-0.5Ca magnesium alloy**
Umer Masood Chaudry, **Ameeq Farooq**, Abdul Malik, Muhammad Nabeel, Muhammad Sufyan, Asima Tayyeb, Sumbal Asif, Aqil Inam, Ahmed Elbalaawy, Eslam Hafez, Tea-Sung Jun, Kotiba Hamad
Materials Technology, 2022, doi.org/10.1080/10667857.2021.2022571
5. **Effects of Annealing Treatment on Corrosion Resistance of Arc Sprayed Aluminum Coating**
Muhammad Abaid Ashraf, Nisar Ahmed, Zuhair Subhani Khan, Muhammad Azhar Iqbal, Aamir Naseem Satti, **Ameeq Farooq**
Journal of Thermal Spray Technology, 2022, doi.org/10.1007/s11666-022-01413-0
6. **Improvement in Hardness and Electrochemical Corrosion Resistance Of Al-7075 alloy by artificial ageing**
Rabia Mukhtar, Naveed Afzal, Mohsin Rafique, **Ameeq Farooq**
Surface Review and Letters, 29 (3), 2022, 2250038
7. **Corrosion behavior of AZ31 magnesium alloy with calcium addition**
Umer Masood Chaudry, **Ameeq Farooq**, Kaab bin Tayyab, Abdul Malik, Muhammad Kamran, Jung-Gu Kim, Chuan Li, Kotiba Hamad, Tea-Sung Jun
Corrosion Science, 199, 2022, 110205

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8. **Effect of Ni Concentration on the Surface Morphology and Corrosion Behavior of Zn-Ni Alloy Coatings**
Ameeq Farooq, Sohaib Ahmad, Kotiba Hamad, Kashif Mairaj Deen
Metals, 12(96), 2022, doi.org/10.3390/met12010096
 9. **Effect of Sol-Gel Sealing Method on the Corrosion Resistance of Plasma-Sprayed WC-12% Co Coatings**
M. A. Ashraf, A. Salman, M. U. Manzoora, A. Farooq
Physics of Metals and Metallography, 122(11), 2021, 1088 – 1094.
 10. **Chemical treatment of the steel substrate and its effect on the adhesion strength structural integrity of the epoxy coatings**
A. Farooq, A. Hannan, R. Ahmad, K. M. Deen
Surface Topography: Metrology and Properties, 9, 2021, 045055
 11. **Study of Hardness and Corrosion Rate of Copper Ions Irradiated Mg-Al-Zn Alloy in Ringer Lactate Solution**
Muhammad Hamza Akhtar, Naveed Afzal, Mohsin Rafique, Ameeq Farooq, Ali Awais, Muhammad Adeel Aleem, Kaab Bin Tayyab
Surface Review and Letters, 28(7), 2021, 2150054
 12. **Surface and Structural Modifications of Tungsten by Laser Irradiation for Enhanced Electrochemical Corrosion Resistance**
Mohsin Rafique, Naveed Afzal, Rabia Mukhtar, Izhar Younas, Shazia Bashir, M. Imran, Khaliq Mahmood, and Ameeq Farooq
Journal of Materials Engineering and Performance, 2021, doi.org/10.1007/s11665-021-06373-0
 13. **Effect of Pseudomonas aeruginosa strain ZK biofilm on the mechanical and corrosion behavior of 316L stainless steel and α -brass**
A. Farooq, M. Zubair, H.Z. Wadood, K. M. Deen
Journal of Electrochemical Science and Technology, 2021, doi.org/10.33961/jecst.2020.01718
 14. **Surface Modification of Commercially Pure Titanium by Gold-Ion Irradiation for Biomedical Applications**
Ameeq Farooq, Kashif Mairaj Deen, Muhammad Rizwan, Akhlaq Ahmad
Surface Review and Letters, 2021, doi.org/10.1142/S0218625X21500694
 15. **Electrochemical corrosion study of helium ions implanted Zircaloy-4 in chloride media**
Mohsin Rafique, Atika Khan, Naveed Afzal, Ameeq Farooq, M. Imran
Nuclear Engineering and Technology, 53, 2021, 927 – 931
 16. **Effect of Ta and Pd Addition on Mechanical Properties of Inconel 718**
Muhammad Shakeel, Muhammad Ali, Ather Ibrahim, and Ameeq Farooq
Russian Journal of Non-Ferrous Metals, 62(2), 2021, 206 – 211
 17. **Impact of Carbon Ion Implantation on the Crystal Structure, Surface Morphology, Vickers Hardness and Electrochemical Corrosion of Zirconium**
M. Maqsood, Mohsin Rafique, M.Z. Butt, Naveed Afzal, M. Usman Tanveer, M. Imran, and Ameeq Farooq
Journal of Materials Engineering and Performance, 2021, doi.org/10.1007/s11665-021-05765-6
 18. **Microstructural and mechanical properties of Al₂O₃ reinforced Al7010 matrix composites, fabricated by stir casting**
F. Wahid, M. A. Hafeez, A. Farooq, T. Anum
Journal of Pakistan Institute of Chemical Engineers, 49 (1), 2021, 63 – 72

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19. **Study of Hardness and Corrosion Rate of Copper Ions Irradiated Mg-Al-Zn Alloy in Ringer Lactate Solution**
Muhammad Hamza Akhtar, Naveed Afzal, Mohsin Rafique, Ameeq Farooq, Ali Awais, Muhammad Adeel Aleem, Kaab Bin Tayyab
Surface Review and Letters, 28(7), 2021, 2150054
 20. **Sacrificial Dissolution of Zinc Electroplated and Cold Galvanized Coated Steel in Saline and Soil Environments: A Comparison**
Ameeq Farooq, Umer Masood Chaudry, Ahsan Saleem, Kashif Mairaj Deen, Kotiba Hamad, Rafiq Ahmad
Materials, 14, 2021, 744
 21. **Effect of thermo-mechanical cyclic quenching and tempering treatments on microstructure, mechanical, and electrochemical properties of AISI 1345 steel**
Muhammad Arslan Hafeez, Ameeq Farooq, Kaab Bin Tayyab, Muhammad Adnan Arshad
International Journal of Minerals Metallurgy and Materials, 2021, doi.org/10.1007/s12613-020-2139-4
 22. **Corrosion behavior of cold-rolled and post heat-treated 316L stainless steel in 0.9% NaCl solution**
K. Bin Tayyab, Ameeq Farooq, A. Ahmed Alvi, Abdul Basit Nadeem, K.M. Deen
International Journal of Minerals Metallurgy and Materials, 2021, doi.org/10.1007/s12613-020-2054-8
 23. **Electrochemical Characterization of AlTiN coating on stainless steel substrate for biomedical implants**
Muhammad Umar Manzoor, Faraz Hussain, Hafsa Zafar, Hamna Sajjid, Asma Salman, Fahad Riaz, Ameeq Farooq, Tahir Ahmad, Muhammad Kamran
Journal of the Pakistan Institute of Chemical Engineers, 48(2), 2020, 9 – 14
 24. **Effect of Post Weld Heat Treatment on the Microstructure and Electrochemical Characteristics of Dissimilar Material Welded by Butter Method**
Umer Masood Chaudry, Hafiz Waqar Ahmad, Muhammad Rehan Tariq, Ameeq Farooq, Muhammad Kashif Khan, Farooq Sher, Hassan Zeb, Kotiba Hamad
Materials, 13, 2020, 4512
 25. **Phosphate chemical conversion coatings for magnesium alloys: a review**
M. A. Hafeez, A. Farooq, A. Zang, A. Saleem, K. M. Deen
Journal of Coatings Technology and Research, 17, 2020, 827 – 849
 26. **Mechanical and corrosion properties of medium carbon low alloy steel after cyclic quenching and tempering heat-treatments**
Muhammad Arsalan Hafeez, Aqil Inam, Ameeq Farooq
Materials Research Express, 7, 2020, 016553
 27. **Biocorrosion inhibition of Cu70:Ni30 by Bacillus subtilis strain S1X and Pseudomonas aeruginosa strain ZK biofilms**
Hafiz Zeshan Wadood, Aruliah Rajasekar, Ameeq Farooq, Yen-Peng Ting, Anjum Nasim Sabri
Journal of Basic Microbiology, 60 (3), 2020, 243 – 252
 28. **Electrochemical and biological response of titanium (cp-Ti) after silicon ion implantation**
K.M. Deen, A. Farooq, M. Rizwan, A. Ahmad, W. Haider
Anti-Corrosion Methods and Materials, 67(1), 2020, 1 – 6

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29. **Improvement in Electrochemical Corrosion Resistance of Mg-Al-Zn Alloy by 250 keV Carbon Ions Irradiation**
Faiza Riaz, Naveed Afzal, Mohsin Rafique, Ameeq Farooq, S.M. Haider Ejaz, Kaab Bin Tayyab, R. Ahmad
Materials Research Express, 6 (12), 2020, 126452
30. **Electrochemical and Cell Response of Surface Modified Ti6Al4V for Biomedical Applications**
Ameeq Farooq, Ali Raza, Asima Tayyeb, Qadeer Ahmad, Rafiq Ahmad
Journal of Bio- and Tribo-Corrosion, 5 (94), 2019
31. **Evaluating the performance of zinc and aluminum sacrificial anodes in artificial seawater**
Ameeq Farooq, Muhammad Hamza, Qadeer Ahmed, Kashif Mairaj Deen
Electrochimica Acta, 314, 2019, 135 – 141
32. **Effect on the pull out and the bond strength of concrete by different surface treatment of steel reinforcement bars**
A.Saleem, A. Farooq, R. Ahmad
Journal of the Pakistan Institute of Chemical Engineers, 47(1), 2019
33. **Effect of Heat Treatments on the Mechanical and Electrochemical Corrosion Behavior of 38CrSi and AISI 4140 Steels**
Muhammad Arslan Hafeez, Ameeq Farooq
Metallography, Microstructure, and Analysis, 2019, doi.org/10.1007/s13632-019-00556-x
34. **Effect of post weld heat treatment on the electrochemical behavior of API X-65 welded pipeline in bicarbonates solutions**
Ameeq Farooq, Attique Ahmed Alvi, Ali Tariq, Abdul Maabood Hassan Alvi, Kashif Mairaj Deen
Conference Proceeding: NACE Northern Area Western Conference, Calgary, Alberta, February 5 – 7, 2019 (Paper No. 02-0619)
35. **Influence of carbon ion implantation energy on aluminum carbide precipitation and electrochemical corrosion resistance of aluminum**
Naveed Afzal, Mohsin Rafique, Wajeelha Javaid, R. Ahmad, A. Farooq, Murtaza Saleem, Zubair Khaliq
Nuclear Instruments and Methods in Physics Research B: Beam Interactions with Materials and Atoms, 436, 2018, 84 – 91
36. **Effects of carbon ions irradiation on the electrochemical response of AISI 304 stainless steel**
Mohsin Rafique, Naveed Afzal, A. Farooq, R. Ahmad
Materials Research Express, 5, 2018
37. **Electrochemical characterization and thermodynamic tendency of β - Lactoglobulin adsorption on 3D printed stainless steel**
Muhammad Jahangir Khan Lodhi, K. M. Deen, Ameeq Farooq, Zia-ur- Rehman, Waseem Haider
Journal of Industrial and Engineering Chemistry, 65, 2018, 180 – 187
38. **Evaluating the electrochemical behavior of friction stir welded AA2219-O alloy joint in 3.5% NaCl solution**
Faizan. A. Ghauri, K. M. Deen, A. Farooq, M. Afzal, A. Ahmad
Journal of Materials Engineering and Performance, 2018, doi.org/10.1007/s11665-018-3454-z

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39. **Effect of quenching baths on microstructure and hardness of AISI1035 steel**
Muhammad Arslan Hafeez, Ameeq Farooq
Nigerian Journal of Technological Research, 13(1), 2018, 82 – 88
40. **Corrosion behavior of stainless-steel weldments in physiological solutions**
Ameeq Farooq, Mudassar Azam, Kashif Mairaj Deen
Materials Research Express, 5, 2018
41. **Microstructural, mechanical and tribological investigation of 30CrMnSiNi2A ultra-high strength steel under various tempering temperatures**
Muhammad Arslan Hafeez, Ameeq Farooq
Materials Research Express, 5, 2018
42. **Corrosion Resistance Evaluation of zinc coatings on mild steel substrate for marine applications**
Muhammad Hamza Ayyub, Asma Salman, Jawad Ahmad, Ameeq Farooq, Arshid Mahmood Ali
Journal of the Pakistan Institute of Chemical Engineers, 46(1), 2018, 1 – 8
43. **Corrosion Resistance Evaluation of zinc coatings on mild steel substrate for Soil applications**
Jawad Ahmad, Asma Salman, Muhammad Hamza Ayyub, Ameeq Farooq, Arshid Mahmood Ali
Journal of the Pakistan Institute of Chemical Engineers, 46(1), 2018, 17 – 22
44. **Electrochemical Characterization of PVD Coated AlTiN coating on stainless steel substrate for biomedical implant**
M.U.Manzoor, A.Salman, H. Sajjid, A. Farooq, T. Ahmad, M.Kamran, N. Ali, H. Zafar
Journal of Faculty of Engineering & Technology, 25 (1), 2018
45. **The study of electrochemical behavior of TiN coated stainless steel in artificial body fluid**
Asma Salman, Hamna Sajjid, Muhammad Umar Manzoor, Ameeq Farooq, Tahir Ahmad
Journal of Faculty of Engineering & Technology, 25 (1), 2018
46. **Effect of friction stir welded on microstructure and corrosion behavior of LF6 aluminum alloy**
F. A. Ghauri, A. Farooq, A. Ahmad, K. M. Deen
Materials Research Express, 4, 2017
47. **Improved corrosion resistance of air plasma sprayed WC-12%Co cermet coating by laser re-melting process**
K.M. Deen , M. Afzal, Y. Liu, A. Farooq, A. Ahmad, E. Asselin
Materials Letters, 191, 2017, 34 – 37
48. **Effect of Coconut Fibre on the Mechanical and Corrosion Properties of Reinforced Concrete in Marine Environment**
A. Farooq, A. Saleem, R. Ahmad
Journal of Steel Structures & Construction, 3(1), 2017, 1– 6
49. **Effect of post weld heat treatment on mechanical and electrochemical properties of gas metal arc welded stainless steel**
F. Muhammad, A. Ahmad, A. Farooq, W. Haider
Journal of Materials Engineering and Performance, 2016, doi: 10.1007/s11665-016-2240-z
50. **Production of carbon nano-tubes via CCVD method and their corrosion protection performance in epoxy based coatings**
M. A. Raza, F. A. Ghauri, M. S. Awan, A. Farooq, R. Ahmad
IOP Conf. Series: Materials Science and Engineering, 146, 2016

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51. **Effect of % Silicon Addition and Dip-Coating Immersion Time on the Corrosion Resistance of Aluminized Mild Steel**
A. Farooq, F.Wahid, A.Ashraf, A. Salam
Corrosion Management, The Institute of Corrosion, March/April 2016
 52. **Estimating the degradation of methylethionium chloride dye on nanotubular TiO₂ Structure**
K. M. Deen, A. Farooq, M. A. Raza, R. Ahmad, W. Haider
Journal of Industrial and Engineering Chemistry, 22, 2015, 153 – 158
 53. **Improvement in the Pitting resistance of Inconel-600 by nitrogen ions implantation**
N. Azal, K.M. Deen, R. Ahmad, Z. Niazi, A. Farooq, Mohsin Rafique, Yong-soo kim, Khaleeq-ur-Rehman
Protection of Metals and Physical chemistry of surfaces, 51(3), 2015, 481 – 485
 54. **Predicting the corrosion tendency of α brass in acidic and alkaline tap water**
Anaum Nawaz, K. M. Deen, A. Farooq, R. Ahmad, I.H. Khan
International Journal of Materials Research, 2015, doi: 10.3139/146.111153
 55. **Investigating the electrochemical behavior of alpha brass in acidic and alkaline tap water**
Anaum Nawaz, K. M. Deen, A. Farooq, R. Ahmad
Materials Today: Proceedings, 2, 2015, 5170 – 5176
 56. **Peculiar Corrosion Behavior of SS316L in Simulated Cooling Water at various pH**
A. Farooq, K. M. Deen, M. A. Raza, R. Ahmad, A. Salam, I. H. Khan, W. Haider
Materials Performance, 53(10), 2014, 44 – 47
 57. **Microbiological Influenced Corrosion attack by Bacillus Megaterium Bacteria on Al – Cu alloy**
K. M. Deen, M. Yousaf, N. Afzal, S. Riaz, S. Naseem, A. Farooq, I. M.Ghauri
Materials Technology: Advanced Performance Materials, 29(5), 2014, 269 – 274
 58. **Effect of electrolyte composition on TiO₂ nanotubular structure formation and its electrochemical evaluation.**
K.M. Deen, A. Farooq, M.A. Raza, W. Haider
Electrochimica Acta, 117,2014, 329 – 335
 59. **Corrosion inhibition of 316L stainless steel in plain tap water**
Anaum Nawaz, A. Farooq, K. M. Deen, A. Inam, R. Ahmad and I. H. Khan
International Journal of Chemistry and Material Science, 2(4), 2014, 68 – 73
 60. **Diagnosing the Cause of Dynamic Compression Plate Premature Failure**
K. M. Deen, A.Farooq, N. Saddique
Engineering Failure Analysis, 34, 2013, 350 – 357
 61. **Understanding the degradation mechanism of painted steel samples as a function of surface characteristics in artificial sea water**
K. M. Deen, A. Farooq, R. Ahmad and I. H. Khan
International Journal of Chemistry and Material Science, 1(1), 2013, 13 – 21
 62. **Study of Natural Gas Feed Preheater Failed Tubes**
K. M. Deen, A. Farooq, I. H. Khan, C. I. Haque, A. Ali, M. Kamran, A. N. Malik
Materials at High Temperatures 30(2), 2013, doi: 10.3184/096034013X137219611815
 63. **Intergranular Pitting Tendency of Yttrium Implanted Inconel 600 in Acidic Chloride Media**
K.M. Deen, N. Afzal, R. Ahmad, Z. Niazi, R. Ayub, A. Farooq, I.H. Khan, M. Khaleeq-ur- Rahman
Surface & Coatings Technology, 212, 2012, 61 – 66

Research and Industrial Projects (Completed)

- **Investigation of the possible corrosion causes of the Canal Head Regulator (CHR) Gate for Descon Engineering Limited** (Guddu Barrage Rehabilitation Project)
- **Inspection of Failure Analysis of Cast Iron Rollers for Velosi Integrity & Safety Pakistan (Pvt) Ltd**
- **Detection of Microbiological Influenced Corrosion (MIC) on Sui Northern Gas Pipeline Limited Transmission pipelines for Velosi Integrity & Safety Pakistan (Pvt) Ltd**
- A joint research project entitled “**Mitigation of Internal Corrosion of Steel-Pipes due to CO₂, H₂S and Bacteria**” Institute of Chemical Engineering and technology (ICE&T) and Sui Northern Gas Pipelines (SNGPL) from **March 2010 to January 2012**:
 - i. **Investigation Black Powder Problem (A Practical Manual)**, SNGPL-ICE&T Joint Research Project, 2010.
 - ii. **Improvement of Safety Performance Measures for Gas Transmission Pipelines (A Practical Manual)**, SNGPL-ICE&T Joint Research Project, 2010.
 - iii. **Pipeline Pigging and Integrity Management (A Practical Manual)**, SNGPL-ICE&T Joint Research Project, 2010-11.
 - iv. **Results of Research Investigation on Black Powder (36” dia pipeline from Qadirpur to Bhong AC-IX)** SNGPL-ICE&T Joint Research Project, 2010-11.

Conferences/Proceedings

1. **Electrochemical dissolution behaviour of selective laser melting additive manufactured nickel based haste alloy**
Ameeq Farooq
3rd International Conference, Advances in Materials Science, December 15 – 16, 2022 held at Department of Physics, University of the Education, Lahore
2. **Development and Characterization of Al-Zn-xCa based Sacrificial Anodes for Marine Applications**
Muhammad Haris Qureshi, Usama Sarwar, **Ameeq Farooq**
All Punjab Universities Innovation Expo 2022, November 15, 2022 held at Faletti's Hotel, Lahore
3. **Performance of bismuth added Al-Zn sacrificial anodes for marine applications**
Ameeq Farooq
3rd AMPP Pakistan Chapter International Corrosion Conference, September 27, 2022 held at Pearl Continental Karachi
4. **Investigation of Stress Corrosion Cracking of Friction Stir Welded 2060 Al-Li alloy**
Muhammad Usama Yameen, Khawar Hussain, **Ameeq Farooq**
1st Engineering Capston Expo-2022 (Final Year Engineering Design Projects Exhibition), September 19, 2022 held at Faletti's Hotel, Lahore

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- 5. Root Cause Analysis of Failed Aluminum based radiator of generator**
Sami-ur-Rehman, Muzaffar Ahmad Zafar, Muhammad Haris Qureshi, Ameeq Farooq
Pakistan Autoshow 2022, July 29 – 31, 2022 held at Expo Centre, Lahore
 - 6. Synthesis of Green Anti-corrosive zinc phosphate pigment via hydrothermal method**
Muhammad Usama Yameen, Hafiz Muhammad Usman Hassan, Ameeq Farooq
Pakistan Chemical Expo 2022, July 19 –20, 2022 held at Expo Centre, Lahore
 - 7. Microstructure and Electrochemical evaluation of laser welded 2060 Al-Li alloy**
Mubashar Hayat, Muhammad Usama Yameen, Muhammad Sufyan, Ameeq Farooq
Conference on Materials and Sustainable Industrial Development (CoMSID 2022) March 14, 2022 held at School of Chemical and Materials Engineering, NUST, Islamabad
 - 8. Rehabilitation analysis of epoxy coated A-36 coupled with A-431 in river water**
Muhammad Usama Yameen, Khawar Hussain, Ameeq Farooq
International Conference on Solid State Physics (ICSSP'21), February 21 – 24, 2022 held at Solid State Physics Department, University of the Punjab, Lahore
 - 9. Development and evaluation of surface tolerant epoxy coating on salt contaminated surfaces**
Ameeq Farooq, Kashif Mairaj Deen, Rafiq Ahmad
International Conference on Solid State Physics (ICSSP'21), February 21 – 24, 2022 held at Solid State Physics Department, University of the Punjab, Lahore
 - 10. Evaluation of performance of Al based sacrificial anodes coupled with mild steel structure in artificial seawater**
Muhammad Haris Qureshi, Umair Altaf, Muhammad Umer Muzammil, Ameeq Farooq
International Conference on Solid State Physics (ICSSP'21), February 21 – 24, 2022 held at Solid State Physics Department, University of the Punjab, Lahore
 - 11. Development and characterization of Novel Black Oxide Coating on Anchor Bolts of Mild Steel for Structural Applications**
Muhammad Umer Muzammil, Shoaib Raza, Haider Ali Shah, Muhammad Arsalan Hafeez, Ameeq Farooq
17th International Symposium on Advanced Materials, October 18 – 22, 2022 held at National Center for Physics (NCP), Islamabad
 - 12. Failure Investigation of Cast iron rolls at local rolling Industry**
Fahad Shakeel, Syed Hassan Ali Naqvi, Hamza Hussain, Ameeq Farooq
2nd International Conference on Advanced Materials & Emerging Technologies (ICAMET 21), July 01, 2021 - Online
 - 13. Effect of nickel percentage on the morphology, wear, and corrosion resistance of Zn-Ni alloy coating**
Ameeq Farooq, Shoaib Ahmad, Kashif Mairaj Deen
21st International Conference on Metallurgical Coatings and Thin Film (ICMCTF 2021), April 26 –30, 2021 - Online
 - 14. Effect of Ca addition on the microstructure and electrochemical behavior of AZ31 magnesium alloy**
Ameeq Farooq, Umer Masood Chaudry, Kaab Bin Tayyab, Kotiba Hamad, Jung-Gu- Khan
7th International Symposium on Biomedical Materials, December 11 – 12, 2019 held at Interdisciplinary Research Centre in Biomedical Materials (IRCBM), COMSATS University Islamabad Lahore Campus, Pakistan

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- 15. Effect of commercially available oral rinses on different metallic dental implants**
Kaab Bin Tayyab, Abdul Hannan, Ameeq Farooq
7th International Symposium on Biomedical Materials, December 11 – 12, 2019 held at Interdisciplinary Research Centre in Biomedical Materials (IRCBM), COMSATS University Islamabad Lahore Campus, Pakistan
- 16. Surface modification of commercially pure titanium by gold ion implantation for biomedical applications**
Ameeq Farooq, Kashif Mairaj Deen, Muhammad Rizwan, Akhlaq Ahmad
International Conference on Solid State Physics (ICSSP'19), December 08 – 12, 2019 held at Centre of Excellence in Solid State Physics, University of the Punjab, Lahore
- 17. Effect of thermo-mechanical cyclic heat treatments on mechanical, nano-indentation and electrochemical properties of AISI 1345 steel**
Muhammad Arslan Hafeez, Muhammad Adnan Arshad, Ameeq Farooq
International Conference on Solid State Physics (ICSSP'19), December 08 – 12, 2019 held at Centre of Excellence in Solid State Physics, University of the Punjab, Lahore
- 18. Effect of chemical cleanings on mild steel adhesion and corrosion resistance prior epoxy coating**
Abdul Hannan, Ameeq Farooq, Kaab Bin Tayyab, Sajid Ali, Jahanzaib Mukhtar, Liaquat Raza
International Conference on Solid State Physics (ICSSP'19), December 08 – 12, 2019 held at Centre of Excellence in Solid State Physics, University of the Punjab, Lahore
- 19. Effect of plastic deformation and heat treatment on microstructure, hardenability and electrochemical properties of 316L stainless steel**
Kaab Bin Tayyab, Ameeq Farooq, Attique Ahmed Alvi, Abdul Hannan, Abdul Basit Nadeem
International Conference on Solid State Physics (ICSSP'19), December 08 – 12, 2019 held at Centre of Excellence in Solid State Physics, University of the Punjab, Lahore
- 20. Effect of nickel addition on the morphology and electrochemical behavior of Zn-Ni alloy coating**
A. Farooq, H. Sajjid, S. Ahmad, K.B. Tayyab, K.M. Deen
16th International Symposium on Advanced Materials 2019, October 21 – 25, 2019 held at National Centre for Physics (NCP), Islamabad
- 21. Influence of cold rolling on the electrochemical behavior of 316L (X2CrNiMo 17-13-2) stainless steel**
K.B. Tayyab, A. Farooq, A.B. Nadeem
16th International Symposium on Advanced Materials 2019, October 21 – 25, 2019 held at National Centre for Physics (NCP), Islamabad
- 22. Development of zinc dust pigmented surface tolerant epoxy coating on salted contaminated steel surfaces**
N. Akram, A. Nadeem, M. Danial, A. Farooq, A. Salam
16th International Symposium on Advanced Materials 2019, October 21 – 25, 2019 held at National Centre for Physics (NCP), Islamabad
- 23. Surface modification of AZ31B magnesium alloy by microarc oxidation method**
A. Saleem, A. Farooq, K.B. Tayyab, A. Salam
16th International Symposium on Advanced Materials 2019, October 21 – 25, 2019 held at National Centre for Physics (NCP), Islamabad

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- 24. Effect of microbiology influence corrosion on passive metals and alloys**
Ameeq Farooq
2nd NACE Islamabad Pakistan Section International Corrosion Conference, October 01, 2019 held at Pearl Continental Hotel, Karachi
- 25. Effect of post weld treatment on the electrochemical behavior of API X-65 welded pipeline in bicarbonate solutions**
Ameeq Farooq, Attique Ahmed Alvi, Ali Tariq, Abdul Maabood Hassan Alvi, Kashif Mairaj Deen
2019 NACE Northern Area Western Conference, February 05 – 07, 2019 held at Calgary, Alberta Canada
- 26. Characterization of aluminum and zinc anodes in seawater according to NACE TM0190**
Ameeq Farooq
1st NACE Islamabad Pakistan Section International Corrosion Conference, October 09, 2018 held at Pearl Continental Hotel, Karachi
- 27. Evaluating the performance of zinc and aluminum sacrificial anodes in artificial sea water**
Ameeq Farooq, Muhammad Hamza, Qadeer Ahmad, Kashif Mairaj Deen
Electrochemical Methods in Corrosion Research (EMCR-2018), July 22 – 27, 2018 held at Robinson College, University of Cambridge, UK
- 28. Surface modification effect on electrochemical and biocompatibility of Ti6Al4V**
Ali Raza, Muhammad Hamza, **Ameeq Farooq**
Electrochemical Methods in Corrosion Research (EMCR-2018), July 22 – 27, 2018 held at Robinson College, University of Cambridge, UK
- 29. Effect of electropolishing parameters on surface morphology and electrochemical behavior of 316L stainless steel for biomedical applications**
Sehar Iftikhar, Adina Saeed, Tayyaba Amjad, Warda Tus Sahar, **Ameeq Farooq**, Asma Salman
4th International Conference on Frontiers of Advanced Engineering Materials (FAEM-18), February 19 – 20, 2018 held at Pakistan Institute of Technology for Minerals and Advanced Engineering Materials (PITMAEM), Pakistan Council of Scientific and Industrial Research, Laboratory Complex, Lahore
- 30. Effect of anionic surfactant on the performance of nickel electroplating bath**
Bilal Ahmad, Muhammad Awais Raza, **Ameeq Farooq**
3rd International Conference on Engineering Sciences, December 21 – 22, 2017 held at University of the Punjab and University of Engineering and Technology, Lahore
- 31. Anodizing of zirconium-2 alloy and its use in dental implants**
Usama Bin Ali, Muhammad Ahsan, **Ameeq Farooq**, Rafiq Ahmad
3rd International Conference on Engineering Sciences, December 21 – 22, 2017 held at University of the Punjab and University of Engineering and Technology, Lahore
- 32. Eco-friendly green inhibitor alovera gel and henna leaves efficiency for mild steel API X-70**
Asif Hussain, Syed Muhammad Zain Mehdi, Rauf Amjad, Iraq, **Ameeq Farooq**, Rafiq Ahmad
3rd International Conference on Engineering Sciences, December 21 – 22, 2017 held at University of the Punjab and University of Engineering and Technology, Lahore

33. Effect of surface modification of Ti6Al4V alloy for dental applications

Ali Raza, Ameeq Farooq, Muhammad Zeeshan, Rafiq Ahmad

6th International Symposium on Biomedical Materials, December 14 – 16, 2017 held at Interdisciplinary Research Centre in Biomedical Materials (IRCBM), COMSATS University Islamabad Lahore Campus, Pakistan

34. Evaluating the ductile to brittle transformation of submerged arc welded SA 516 Gr. 70 steel and its corrosion behavior in aerated saline solution

Kashif Mairaj Deen, Muhammad Haziquddin, Ameeq Farooq, Ansum Nawaz

International Conference on Solid State Physics (ICSSP'17), December 10 – 14, 2017 held at Centre of Excellence in Solid state Physics, University of the Punjab, Lahore

35. Investigating the cause of defect formation in an ammonia plant synthesis loop line-pipe during repair process

A. Farooq, K.M. Deen

15th International Symposium on Advanced Materials 2017, October 16 – 20, 2017 held at National Centre for Physics (NCP), Islamabad

36. Detailed microstructure and electrochemical Investigation of 3D printed and Arc melted 316L stainless steel

Muhammad Jahangir Lodhi, Waseem Haider, Kashif Mairaj Deen, Ameeq Farooq

Materials Science & Technology 2017 Conference & Exhibition, October 08 – 12, 2017 held at Pittsburgh, PA, USA

37. Study of polarization behavior of zinc based casted anode for sacrificial cathodic protection of steel pipelines in soil

Ameeq Farooq, Fiaz Ahmad, Abdullah Zia, Behram Zulfiqar, Jahangir Khan Lodhi, Rafiq Ahmad

6th Symposium on Engineering Sciences, December 21 – 22, 2016 held at University of the Punjab, Lahore

38. Development and characterization of zinc based sacrificial anodes for sacrificial cathodic protection of steel pipelines

Fiaz Ahmad, Abdullah Zia, Behram Zulfiqar, Jahangir Khan, Ameeq Farooq, Rafiq Ahmad

International Conference on Advanced Materials and Emerging Technologies (ICAMET 2016), November 28 – 29, 2016 held at University of Engineering and Technology Lahore & University of the Punjab, Lahore

39. Investigating the effect of heat treatment on microstructure and electrochemical behavior of Gas Tungsten Arc welded APIX-56 pipeline.

Attique Ahmad Alvi, Ali Tariq, Abdul Maabood Hassan Alvi, Jahangir Khan, Ameeq Farooq, Rafiq Ahmad

International Conference on Advanced Materials and Emerging Technologies (ICAMET 2016), November 28 – 29, 2016 held at University of Engineering and Technology Lahore & University of the Punjab, Lahore

40. Investigating the effect of different inorganic fillers in epoxy coatings during exposure in urban environment

Jahangir Khan, Ameeq Farooq, Talha Majeed, Khadim Hussain, Rafiq Ahmad

International Conference on Advanced Materials and Emerging Technologies (ICAMET 2016), November 28 – 29, 2016 held at University of Engineering and Technology Lahore & University of the Punjab, Lahore

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41. **Mechanical and corrosion properties of coconut fibre reinforced concrete in marine surroundings**
Ahsan Saleem, Nauman Tahir, Ashar Alam, Ameeq Farooq, Rafiq Ahmad
International Conference on Advanced Materials and Emerging Technologies (ICAMET 2016), November 28 – 29, 2016 held at University of Engineering and Technology Lahore & University of the Punjab, Lahore
 42. **Effect of silicon ion implantation on the electrochemical and biological response of commercially pure titanium**
Kashif Mairaj Deen, Muhammad Rizwan, Ameeq Farooq, Akhlaq Ahmad, Rafiq Ahmad, Waseem Haider
International Conference on Solid State Physics 2015, December 13 – 17, 2015 held at Centre of Excellence in Solid state Physics, University of the Punjab, Lahore
 43. **Optimization of synthesis and characterization of nanotubular structure on titanium surface electrochemical means**
A. Nawaz, K.M. Deen, A. Farooq, R. Ahmad
4th Nano Today Conference, December 6 – 10, 2015, Dubai
 44. **Effect of heat treatment on stress corrosion cracking of AA6061 aluminum alloy in saline water**
K. M. Deen, A. Farooq, R. Ahmad
14th International Symposium on Advanced Materials 2015, October 12 – 16, 2015 held at National Centre for Physics (NCP), Islamabad
 45. **Comparative study of friction stir welding of aluminum alloys**
F. A. Ghauri, A. Ahmad, A. Farooq, K. M. Deen, M. A. Raza, Z. Ahmad
14th International Symposium on Advanced Materials 2015, October 12 – 16, 2015 held at National Centre for Physics (NCP), Islamabad
 46. **Corrosion Study of Quenched and Partitioned AISI 4340 Steel**
Amir Nadeem, Aqil Inam, Rafiq Ahmad, Muhammad Ishtiaq, Ameeq Farooq, Mubashar Nawaz, Muhammad Arslan Hafeez
Materials Science & Technology 2015, October 04 – 08, 2015 held at Greater Columbus Convention Center, Columbus, OH, USA
 47. **Electrochemical and cellular behavior of nitrogen ion implanted commercially pure Titanium**
A. Farooq, M. Rizwan, K. M. Deen, A. Ahmad, R. Ahmad, I.H. Khan
4th International Symposium on Biomedical Materials, December 15 – 17, 2014 held at Interdisciplinary Research Centre in Biomedical Materials (IRCBM), COMSATS Institute of Information Technology, Lahore
 48. **Lab scale development of aluminum alloy 7020 and study the effect of heat treatment and corrosion rate**
F. Hussain, A. Farooq, H. Naseem, S. Hussain, R. Ahmad, N.A. Siddique
5th International Foundry Congress and Exhibition (IFCE), December 02 – 03, 2014 held at Faletti's Hotel, Lahore
 49. **The production technology of a modern material for heavy automotive vehicles - a compacted Graphite Iron (C.G.I.)**
S. K. Paknikar, A. Farooq
5th International Foundry Congress and Exhibition (IFCE), December 02 – 03, 2014 held at Faletti's Hotel, Lahore
 50. **Effect of sensitization on the mechanical and electrochemical behavior of 316L weldment**
A. Farooq, M. Nauman, A. Jamal, K.M. Deen, R. Ahmad
First national Symposium on Industrial & Manufacturing Engineering (NSIME-2014), May 26, 2014 at University of the Punjab, Lahore

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51. **Electrochemical behavior of Al-6061-T6 weldment in saline solution under uniaxial loading**
A.Hayat, J.ul-Hasnain, M. Samar Ayaz, A. Farooq, K.M.Deen, R.Ahmad
1st International Young Engineers Convention (IYEC-2014), April 18 – 20, 2014 held at University of Engineering & Technology (UET), Lahore
52. **Effect of filler composition and heat treatment on corrosion behavior of AISI 316L stainless steel weldments**
M.Nauman, A.Jamal, A.Farooq, K.M.Deen, R.Ahmad
1st International Young Engineers Convention (IYEC-2014), April 18 – 20, 2014 held at University of Engineering & Technology (UET), Lahore
53. **Corrosion Inhibitor evaluation of crude oil pipelines by electrochemical methods**
Q.Ahmad, D.Anwar, Z.I.Butt, A.Farooq, K.M.Deen, M.T.Z.Butt
1st International Young Engineers Convention (IYEC-2014), April 18 – 20, 2014 held at University of Engineering & Technology (UET), Lahore
54. **Corrosion inhibition of 316L stainless steel in plain tap water**
Anaum Nawaz, Ameeq Farooq, Kashif Mairaj Deen, Rafiq Ahmad
5th Symposium on Engineering Science (SES), April 02, 2014 held at Institute of Chemical Engineering and Technologies (ICE&T), University of the Punjab, Lahore, Pakistan
55. **Effect of heat treatment on microstructure and corrosion behavior of AISI 1020, 1045 and 4340 steels**
H. M. Fida, M. Sajjad, M. Ejaz, A. A. Khan, A. Farooq, K. M. Deen
5th Symposium on Engineering Science (SES), April 02, 2014 held at Institute of Chemical Engineering and Technologies (ICE&T), University of the Punjab, Lahore
56. **Predicting the corrosion tendency of α -brass in acidic and alkaline tap water**
Anaum Nawaz, K. M. Deen, A. Farooq, R. Ahmad
International Conference on Solid State Physics (ICSSP'13), December 01 – 06, 2013 at University of the Punjab, Lahore
57. **Electrochemical optimization of TiO₂ nanotubular structure formation and investigating its photocatalytic behavior**
Kashif Mairaj Deen, Qaiser Zia, Rizwan Gulzar, Mubashar Shehzad, Rafiq Ahmad, Ameeq Farooq
Materials Science & Technology 2013 Conference & Exhibition, October 27 – 31, 2013 held at Montreal, Quebec Canada
58. **Corrosion and Corrosion Damages in Practice**
Kashif Mairaj Deen, Ijaz Hussain Khan, Rafiq Ahmad, Ameeq Farooq
3rd International Conference on Corrosion & Pipeline Integrity Management Conference 2012, organized by the National Forum for Environment and Health (NFEH), May 17, 2012 held at Karachi Marriott Hotel.
59. **Influence of pH on the electrochemical behavior of SS316L in simulated cooling water**
A. Farooq, K. M. Deen, R. Ahmad, A. Salam, I.H.Khan
National Seminar on Engineering Materials and their Performance (NSEMP'13), April 30, 2013 held at Department of Metallurgy and Materials Engineering, College of Engineering & Emerging Technologies, (CEET) University of the Punjab, Lahore

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60. **Electrochemical optimization of TiO₂ nanotubes synthesis and investigating its photo-catalytic activity to degrade a dye**
K. M. Deen, Q. Zia, M. Shahzad, R. Gulzar, A. Farooq, M. A. Raza, I. H. Khan, R. Ahmad
National Seminar on Engineering Materials and their Performance (NSEMP'13), April 30, 2013 held at Department of Metallurgy and Materials Engineering, College of Engineering & Emerging Technologies, (CEET) University of the Punjab, Lahore
 61. **Electrochemical Optimization of TiO₂ nanotubes synthesis and investigating its photo catalytic activity**
K. M. Deen, R. Gulzer, Q. Zia, M. Shehzad, A. Farooq
Invention to Innovation Summit 2013, April 9 – 10, 2013 held at University of the Punjab, Lahore
 62. **Investigating the metallurgical and corrosion characteristics of stainless-steel weldment in physiological solutions**
Kashif Mairaj Deen, Ameeq Farooq, Rafiq Ahmad, Ijaz Hussain Khan
Materials Science & Technology 2012 Conference & Exhibition, October 07 – 11, 2012 held at Pittsburgh, Pennsylvania, USA
 63. **Characterization of FBE coating exposed to artificial sea water**
K. M. Deen, A. Farooq, R. Ahmad, A.Salam, I.H.Khan
World Corrosion Awareness Day, April 24, 2012 organized by National Association of Corrosion Engineers (NACE) Islamabad Pakistan Section and SNGPL held at Corrosion Control Centre, SNGPL, Lahore
 64. **Electrochemical and metallurgical characterization of 316L stainless steel weldment in physiological solutions**
A. Farooq, K. M. Deen, I.H.Khan
National Science Conference; Roadmap of Cutting Edge Technologies, January 10 – 12, 2012 organized by Pakistan Academy of Sciences held at PMAS – Arid Agriculture University, Rawalpindi
 65. **Electrochemical study of medical grade 316L stainless steel weldment**
A. Farooq, K. M. Deen, R. Ahmad, I.H.Khan
Corrosion and Corrosion Control Symposium 2011, October 27, 2011 held at College of Engineering and Emerging Technologies, University of the Punjab, Lahore
 66. **Study of medical grade 316L stainless steel weldment in simulated body fluids**
A. Farooq, A.Raza, M. Nasurallah, K.M.Deen I.H.Khan, R. Ahmad,
Proceedings of 3rd Symposium on Engineering Sciences, March 10, 2010 held at Institute of Chemical Engineering and Technologies (ICE&T), University of the Punjab, Lahore

Conference/Seminar/Lecture Organized

1. Organizer of ***Corrosion Awareness Day 2023 – Technical Awareness Session***, on May 03, 2023 at Institute of Metallurgy and Materials Engineering, University of the Punjab, Lahore
2. Organizer of ***Corrosion Awareness Day 2023 – Chemistry Behind Corrosion***, on March 20, 2023 at Institute of Metallurgy and Materials Engineering, University of the Punjab, Lahore
3. Organizer of ***Corrosion Engineering Open Ended Lab (OEL) Exhibition*** on December 20, 2022 at Corrosion Control Research Cell, Institute of Metallurgy and

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- Materials Engineering, University of the Punjab, Lahore
4. Organizer of ***Corrosion Technical Series – Basic Principle of Cathodic Protection Pipeline Design*** by MAS Associates (Pvt) Ltd on October 26, 2022 at Institute of Metallurgy and Materials Engineering, University of the Punjab, Lahore
 5. Organizer of ***Corrosion Technical Series – Pipeline Assets Management*** by SGS (Pvt) Ltd on September 28, 2022 at Institute of Metallurgy and Materials Engineering, University of the Punjab, Lahore
 6. Organizer of ***3rd AMPP Pakistan Chapter International Corrosion Conference***, September 27, 2022 at Pearl Continental Hotel, Karachi
 7. Organizer of ***Corrosion Technical Series – Basics Economics of Corrosion Engineering*** by Inspectest (Pvt) Ltd on August 31, 2022 at Institute of Metallurgy and Materials Engineering, University of the Punjab, Lahore
 8. Organizer of ***Corrosion Awareness Day 2022 – Online Technical Session***, on April 23, 2022
 9. Organizer of ***Corrosion Awareness Day 2022 – Chemistry Behind Corrosion***, on 21st April 19 and 21, 2022
 10. Organizer of ***Seminar on Basic Corrosion Protection and Demonstration of Equipments*** on November 05 2021 by MAS Associates (Pvt) Ltd at Institute of Metallurgy and Materials Engineering, University of the Punjab, Lahore
 11. Organizer of ***Virtual technical Webinar on Aboveground Storage Tanks Modeling*** on August 13, 2021
 12. Organizer of ***Series of Virtual Technical Webinar*** from September 5, 2020 to June 25, 2021
 13. Organizer of ***Corrosion Awareness Day 2021 – Online Technical Session***, on April 24, 2021
 14. Organizer of ***Corrosion Awareness Day 2020 – Corrosion Photographic Competition***, on April 04 – May 13, 2020
 15. Organizer of ***Corrosion Awareness Day 2020 – Online Technical Presentation*** on 3rd May 2020 April 10 – May 03, 2020
 16. Organizer of ***Technical Lecture on Inhibitor*** by Innovior Rays at Department of Metallurgy and Materials Engineering, University of the Punjab, Lahore on February 11, 2020
 17. Organizer of ***Technical Lecture on Water Treatment*** by Orient Engineering Services at Department of Metallurgy and Materials Engineering, University of the Punjab, Lahore on January 30, 2020
 18. Organizer of ***Technical Lecture on Cathodic Protection*** by MAS Associates (Pvt) Ltd at Department of Metallurgy and Materials Engineering, University of the Punjab, Lahore on January 21 and 23, 2020
 19. Organizer of ***Chemistry behind Corrosion*** at Department of Metallurgy and Materials Engineering, University of the Punjab, Lahore on November 15 and 20, 2019
 20. Organizer of ***2nd NACE Islamabad Pakistan Section International Corrosion Conference***, October 01, 2019, Pearl Continental Hotel, Karachi
 21. Organizer of ***Corrosion Awareness Day 2019*** at Department of Metallurgy and Materials Engineering, University of the Punjab, Lahore on April 24, 2019
 22. Organizer of 19th Annual Short course on ***Basic Principles of Corrosion Control and Cathodic Protection Technology***, March 25 – 27, 2019, held at Department of Metallurgy and Materials Engineering, University of the Punjab, Lahore.

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23. Organizer of **Technical Lecture on Cathodic Protection** by MAS Associates (Pvt) Ltd December 11 and 13, 2018 at Department of Metallurgy and Materials Engineering, University of the Punjab, Lahore
 24. Organizer of **1st NACE Islamabad Pakistan Section International Corrosion Conference**, October 09, 2018 at Pearl Continental Hotel, Karachi
 25. Organizer of **Corrosion Awareness Day 2018** April 24, 2018 at Department of Metallurgy and Materials Engineering, University of the Punjab, Lahore
 26. Organizer of 18th Annual Short course on **Cathodic Protection System for Pipelines, Storage Tanks, Well Casing and Buried Plant Facilities (Advance Level)**, April 02 – 04, 2018 at Department of Metallurgy and Materials Engineering, College of Engineering and Emerging Technology, University of the Punjab, Lahore
 27. Organizer of 18th Annual Short course on **Basic Principles of Corrosion Control and Cathodic Protection Technology**, March 26 – 28, 2018 at Department of Metallurgy and Materials Engineering, College of Engineering and Emerging Technology, University of the Punjab, Lahore
 28. Organizer of 17th Annual Short course on **Principles of Corrosion Control and Cathodic Protection Technology**, March 20 – 22, 2017 at Department of Metallurgy and Materials Engineering, College of Engineering and Emerging Technology, University of the Punjab, Lahore
 29. Organizer of 16th Annual Short course on **Fundamentals of Corrosion and Cathodic Protection Technology**, March 21 – 24, 2016 at Department of Metallurgy and Materials Engineering, CEET, University of the Punjab, Lahore
 30. Organizer of 16th Annual Short course on **Cathodic Protection of Pipelines, Storage Tanks and Well casings**, March 29 – April 01, 2016 at Department of Metallurgy and Materials Engineering, CEET, University of the Punjab, Lahore
 31. Organizer of **National Seminar on Engineering Materials and their Performance (NSEMP'13)**, April 30, 2013 at Department of Metallurgy and Materials Engineering, College of Engineering & Emerging Technologies, (CEET) University of the Punjab, Lahore, Pakistan
 32. Organizer of **National Metallography Competition** on May 31, 2012 at College of Engineering & Emerging Technologies (CEET), University of the Punjab, Lahore collaborated with Pakistan Institute of Metallurgy & Materials Engineers (PIMME)
 33. Organizer of **A Lecture on Life-Long Experiences in ICI, UK** by **Dr. Islam-ul-Haq Chaudhri** on February 14, 2012 at Institute of Chemical Engineering & Technology (ICE&T) and College of Engineering & Emerging Technologies (CEET), University of the Punjab, Lahore
 34. Organizer of **Biomaterials in Dentistry** by **Dr. Faisal Izhar** and **Introduction to Polymeric Materials** by **Prof. Dr Tahir Jamil**, February 17, 2012 at College of Engineering & Emerging Technologies (CEET), University of the Punjab, Lahore
 35. Organizer of **Corrosion and Corrosion Control Symposium 2011**, October 27, 2011 at College of Engineering and Emerging Technologies, University of the Punjab, Lahore

Research Collaboration

1. Department of Materials Engineering, University of British Columbia, Vancouver, BC V6T 1Z4, Canada
2. School of Engineering and Technology, Central Michigan University, Mt. Pleasant, MI, USA
3. School of Advanced Materials Science & Engineering, Sungkyunkwan University, Suwon 16419, South Korea
4. Centre for Advanced Studies in Physics, Government College University, Lahore, Pakistan
5. Department of Physics, GC University, Lahore, Pakistan
6. Department of Biology, Lahore Garrison University, Lahore, Pakistan
7. Department of Metallurgical and Materials Engineering, University of Engineering and Technology (UET), Lahore, Pakistan
8. School of Biological Sciences, University of the Punjab, Lahore, Pakistan
9. Faculty of Materials and Chemical Engineering, GIK Institute of Engineering Sciences and Technology, Topi 23640, Pakistan

Industrial Research Collaboration

1. Corrosion Control Department of Sui Northern Gas Pipelines (SNGPL)
2. MAS Associates (Pvt) Ltd
3. Velosi Integrity & Safety Pakistan (Pvt) Ltd
4. Inspectest (Pvt) Ltd
5. Orient Engineering Services
6. Innovior Rays
7. Descon Engineering Limited
8. Curexa Health Private Limited