

## CURRICULUM-VITAE



**MOHAMMAD MOBIN (PhD, FRSC)**

**Vice Chancellor**

**Cluster University of Srinagar-190008 Jammu & Kashmir**

E-mail: [drmmobin@hotmail.com](mailto:drmmobin@hotmail.com); [vc@cusrinagar.edu.in](mailto:vc@cusrinagar.edu.in);  
[drmmobin@gmail.com](mailto:drmmobin@gmail.com)

<https://www.cusrinagar.edu.in>

(<https://scholar.google.com/citations?user=2vV08o4AAAAJ>)

Dr. Mohammad Mobin (FRSC), Vice Chancellor, Cluster University of Srinagar is an internationally acclaimed researcher in the field of Materials and Corrosion. He obtained his PhD in Chemistry in 1988 from Aligarh Muslim University and subsequently joined as Lecturer and later promoted to Professor in 2005. In the year 2001, Dr. Mobin joined foreign assignment at Corrosion Department, Seawater Desalination Research Institute, Saline Water Conversion Corporation (SWCC), Al-Jubail, Saudi Arabia. At SWCC, during the period 2001 to 2006, he worked as Corrosion Researcher and carried out industrial, academic and Root Cause Failure Analysis/Trouble Shooting projects and pilot plant studies with reference to corrosion problems in world's largest desalination and power plants and water transmission/storage systems. Prof. Mobin has supervised 19 PhD, 2 M.Phil. and 12 M.Sc. Tech students, authored 196 research papers and contributed 06 books and 40 Book chapters. Prof. Mobin has also completed 40 research projects (04 industrial, 08 academic and 28 root cause failure analysis/trouble shooting projects) including three projects under international collaboration (AB Alvenius Industrier, Sweden, EBARA Research, Japan, Rezayat Kemica, KSA). He has also attended 43 conferences/workshops in India and abroad. He has also delivered keynote

talk/invited talks/technical lectures on corrosion in India and abroad and evaluated a large number of PhD thesis and research projects from Indian and foreign academic institutions. Dr. Mobin was awarded the NIIS (NACE International India Section) corrosion awareness award 2007, NIGIS Meritorious Contribution Award 2022 (AMPP India chapter) and NCCI (National Corrosion Council of India) Meritorious Award 2023 for his meritorious contribution in the field of Corrosion Science & Technology. He has been listed in top 0.05% of all scholars worldwide by ScholarGPS, a California based company, in its inaugural and subsequent lists of highly ranked Scholars. He has been ranked 4th Globally in the specialty of Carbon Steel and 25th in the field of Corrosion by ScholarGPS over the past 6 years. He has also figured in World Top 2% Scientists by Stanford University, USA for year 2019, 2020, 2021, 2022, 2023 and 2024. He has also held various administrative positions and served as member of statutory bodies of the different Universities.

### **CURRICULUM VITAE (IN BRIEF)**

**Name:** Prof. Mohammad Mobin

**Date of birth:** January 01, 1962

**Address for Correspondence:** Vice Chancellor, Cluster University of Srinagar, Gogji Bagh, Srinagar, Jammu and Kashmir, India: Email: [drmmobin@hotmail.com](mailto:drmmobin@hotmail.com); [vc@cusrinagar.edu.in](mailto:vc@cusrinagar.edu.in); [drmmobin@gmail.com](mailto:drmmobin@gmail.com); Mobile: +91-9411491161

**Present Position:** Vice Chancellor, Cluster University of Srinagar

**Position Held in India:** **Lecturer**, AMU, September 24, 1988 to September 23, 1993; **Senior Lecturer**, AMU, September 24, 1993 to March 19, 1997; **Reader**, AMU, March 20, 1997 to March 19, 2005; **Professor**, AMU, March 20, 2005 to July 24, 2024.

**Position Held Abroad:** **Corrosion Researcher**, Department of Corrosion, Seawater Desalination Research Institute, Saline Water Conversion Corporation (SWCC), Al-Jubail, Saudi Arabia (2001 to 2006).

#### **Awards & Honors:**

- (i) NCCI (National Corrosion Council of India) Meritorious Award 2023.
- (ii) AMPP (Association for Materials Protection and Performance, USA) India Chapter "Meritorious Contribution in Research & Education" Award 2022.
- (iii) 13<sup>th</sup> NIIS Corrosion Awareness Award 2007.
- (iv) Listed in top 0.05% of all scholars worldwide by ScholarGPS, a California based company, in its inaugural and subsequent lists of highly ranked Scholars.
- (v) Ranked 4th Globally in the specialty of Carbon Steel and 25th in the field of Corrosion by ScholarGPS over the past 5 years.
- (vi) Figured in World Top 2% Scientists by Stanford University, USA for year 2019, 2020, 2021, 2022, 2023 and 2024.
- (vii) Visiting Professor, King Saud University, Riyadh, KSA (2014).
- (viii) Visiting Professor, Al-Farabi Kazakh National University, Almaty, Kazakhstan (June 01-30, 2024).

**Keynote/Invited talks on corrosion:** 14 (09 in India and 05 Abroad)

**Research supervision: Ph.D.:** 19; **M.Phil.:** 2; **PG:** 12; **Post-Doctoral Research:** 04  
**Research Projects Undertaken:** 40 (04 industrial, 08 academic, 28 root cause failure analysis/troubleshooting projects), including three projects under international collaboration (AB Alvenius Industrier, Sweden, EBARA Research, Japan, Rezayat Kemica, KSA)

**Conferences/Seminars/Symposium attended:** 43 (Abroad: 13; India: 30)

**Ph.D. Thesis Evaluation:** 3 International + Above 21 National

**Membership of Scientific Societies:** 07

**Area of Research:** Materials and Corrosion

**Citation Indices (Googlescholar): Citations: 7044; H-index: 46; i10-index: 126.**  
(<https://scholar.google.com/citations?user=2vV08o4AAAAJ>)

**Reviewer for the Journals:** More than 30

**Research Publications:** 196 (Highest Impact factor= 23.5; Papers with Impact factor 5-10=39; Papers with Impact factor 4-5=25; Papers with Impact factor >10; 07; Q1 Journal=73; Q2=33)

**Book Chapters:** 40; **Book Edited/Authored:** 06

**Leadership for Academicians Programme (LEAP) Training:** Undertaken MHRD, Government of India, 3 weeks LEAP training held at IIT(BHU) Varanasi (Dec 08, 2019 - Dec 21, 2019) and at the University of Cambridge, UK (Jan 19, 2020 - Jan 25, 2020) designed for the purpose of preparing senior Faculty for future governance roles as leaders in academic institutions.

**Shortlisted for the Post of Vice-Chancellor,** University of Kashmir, Srinagar, J & K, April 2022.

**Shortlisted for the Post of Vice-Chancellor,** Jamia Millia Islamia, New Delhi, February, 2024.

**Nominated by the academic council of Umm Al Qura University, Makkah,** Saudi Arabia (2023) to examine and evaluate academic research papers submitted for the purpose of promotion to the status of Professor in the academic field of Chemistry.

**Advisor, Union Public Service Commission (UPSC),** New Delhi since 2009.

**Chairperson, National Assessment & Accreditation Council (NAAC) Peer Team.**

**Assessor** for the evaluation of 13 major research projects for funding, King Saud University, Riyadh (2022).

**Administrative Positions Held: Chairman:** Department of Applied Chemistry (2009, 2012-2015, 2019-2021); **Vice-Chairman:** Alumni Affairs Committee (2019-2024); **Founder Coordinator:** University Sophisticated Instrument Facility (2011-2013); **Provost** (2006-2009); **Deputy Proctor** (2006); **Superintendent of Examination** (2010-2011); **Member-In-Charge** (AMU Press) (2009-2010).

**Member of Statutory Bodies: University Council** University of Kashmir and University of Jammu, Cluster University Jammu, **Executive Council AMU** (2007-2009), **Academic Council IUST Awantipora, J&K, AMU** (2007-2009, 2012-2015, 2019-2021), **AMU Court** (2007-2009, 2015) and **Board of Studies** (Civil Engineering AMU, Chemical Engineering AMU, Computer Engineering AMU, Chemistry AMU, Mathematics AMU, Cluster University, Srinagar, BGSBU Rajori).

**Teaching Experience:** 37 Years; **Research Experience:** 40 Years

**Countries Visited:** USA, UK, China, South Korea, Singapore, Saudi Arabia, Kazakhstan

## **CURRICULUM VITAE (IN DETAIL)**

### **SCHOLASTIC RECORDS**

- **Ph.D.** Chemistry (1988) from Aligarh Muslim University, Aligarh, India.  
**Thesis:** "High Temperature Interactions of Metal Oxides and Carbides with Ionic Salts Relevant to Hot Corrosion".
- **M. Phil.** Chemistry (1984) from Aligarh Muslim University, Aligarh, India.  
**Dissertation:** "High Temperature Interactions of Na<sub>2</sub>SO<sub>4</sub> (S) with Metal Oxides".
- **M.Sc.** Chemistry (1982) from Aligarh Muslim University, Aligarh, in **1<sup>st</sup> Division**.
- **B.Sc. Honors** (1980) from Aligarh Muslim University, Aligarh in **1<sup>st</sup> Division**.
- **Pre-University** (1977) from Aligarh Muslim University, Aligarh in **1<sup>st</sup> Division**.
- **High School** (1976) from U.P. Board in **1<sup>st</sup> Division**.

### **EMPLOYMENT DETAILS**

- **Vice Chancellor**, Cluster University, Srinagar, J&K, July 25, 2024-continuing.
- **Professor**, Department of Applied Chemistry, Faculty of Engineering and Technology, Aligarh Muslim University, Aligarh, India, March 20, 2005 to July 24, 2024.
- **Reader**, March 20, 1997 - March 19, 2005.
- **Senior Lecturer**, September 24, 1993 - March 19, 1997
- **Lecturer**, September 24, 1988 to September 23, 1993
- **Corrosion Researcher**, Department of Corrosion, Sea Water Desalination Research Institute, SWCC, Al-Jubail, Saudi Arabia, May 19, 2001 - August 10, 2006.

**TOTAL TEACHING EXPERIENCE** 37 Years

**TOTAL RESEARCH EXPERIENCE** 40 Years

### **AWARD/HONORS RECEIVED**

- Received NCCI (National Corrosion Council of India) Meritorious Award 2023 for eminent contribution in the field of Corrosion Science and Engineering, monitoring, testing and evaluation of materials and basic R&D on December 07, 2023 at Jenneys Residency, Coimbatore. Award carried a shield, certificate and cash award of Rs. 10,000.
- Received AMPP (Association for Materials Protection and Performance, USA) India Chapter "Meritorious Contribution in Research & Education" Award 2022 for contributions in the field of Corrosion Science & Technology on September 20,

2022 at Ananta Hotel and Resort, Udaipur. The award carried a citation, plaque and honorarium of Rs. 51,000.

- Received 13<sup>th</sup> NIIS (NACE International India Section) Corrosion Awareness Award 2007 “Award for Excellence in Corrosion Science” in recognition of the meritorious contributions in the field of Corrosion Science & Technology on September 26, 2007 at hotel Intercontinental the Grand, Mumbai. The award, sponsored by Oil & Natural Gas Corporation Ltd., carried a citation, plaque and honorarium of Rs. 10,000.
- Figured in World Top 2% Scientists by Stanford University, USA for year 2019, 2020, 2021, 2022 2023 and 2024.
- Listed in top 0.05% of all scholars worldwide by ScholarGPS, a California based company, in its inaugural list of highly ranked Scholars released in 2024 and subsequently in 2025.
- Ranked 4<sup>th</sup> Globally in the specialty of Carbon Steel by ScholarGPS over the past 5 years.
- Ranked 25<sup>th</sup> Globally in the field of Corrosion by ScholarGPS over the past 5 years.

#### **KEYNOTE TALK/INVITED TALK/TECHNICAL LECTURES/RESOURCE PERSON**

- Delivered 15 keynote/invited talks on Corrosion (10 in India and 05 Abroad)

#### **In India**

1. Delivered Keynote talk on “Nanomaterials and Green Chemistry Synergy for Next-Generation Corrosion Inhibition”, International Conference on Chemistry in Multidisciplinary Research 2026 (ICCMR 2026), held at Nagaland Central University, Lumami, February 18-20, 2026.
2. Delivered Keynote talk on “Academic and Research Excellence in Higher Education” in Two-Week Capacity Building Program for Faculty Members in Social Sciences, Sponsored by Indian Council of Social Science Research, New Delhi, organized by Central University of Kashmir, October 27-November 07, 2025.
3. Delivered Keynote talk on “Nanotechnology-driven strategies for next-generation sustainable corrosion inhibitors development”, International conference on Technology for Better Living NBL-2025, held at University of Kashmir, Srinagar in collaboration with IIT Hyderabad, September 7-11, 2025.
4. Delivered Keynote talk on " Sustainability in Corrosion Inhibition: Current Practices and Future Prospects" 2<sup>nd</sup> International Conference in Chemistry-2025 on “Innovation in Chemical Sciences for Sustainable Development and Its Importance in Day-to-Day Life” held at the Department of Chemistry, School of Sciences, Maulana Azad National Urdu University, Hyderabad, January 30-31, 2025.

5. Delivered Keynote talk on "Environment Friendly corrosion inhibitors: Advantages, disadvantages and emerging trends" 20<sup>th</sup> National Conference on Corrosion Control, held at Coimbatore, Tamil Nadu, December 07-09, 2023.
6. Delivered Keynote talk on "Progress in research on corrosion inhibitors" AMPP India chapter, Corrosion Conference and Expo-CORCON 2022 held at Udaipur, September 19-22, 2022.
7. Acted as resource person and delivered a lecture on "Corrosion: A formidable global Challenge" organized by the UGC-Human Resource Development Centre, BHU for College and University teachers, December 21, 2020.
8. Delivered invited talk on "Future challenges in the field of corrosion", National Conference on Current Trends in Chemical and Environmental Sciences-2016, held at Institute of Technology and Management, Gorakhpur, UP, April 23, 2016.
9. Delivered invited talk on "Surfactants as corrosion inhibitors" NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2014 held at Mumbai, November 12-15, 2014.
10. Acted as resource person and delivered a lecture on "Scanning electron microscopy and Transmission electron microscopy" organized by the UGC-Human Resource Development Centre, AMU for College and University teachers from Iran, November 26, 2012.

#### **Abroad**

11. Delivered invited lecture on "Progress in research on sustainable corrosion inhibitors", 19<sup>th</sup> Asian Pacific Corrosion Control Conference, Guangzhou, China, November 16-18, 2023.
12. Delivered invited talk on "Beneficial role of surfactants in corrosion protection of metallic materials of construction", Department of Chemistry, King Saud University, Riyadh, Saudi Arabia, February 17, 2014.
13. Delivered invited talk on "Conducting polymers coatings-a novel approach of corrosion protection", Department of Chemistry, King Saud University, Riyadh, Saudi Arabia, February 18, 2014.
14. Delivered invited talks on "Future challenges in the field of corrosion: development of smart organic coatings and green corrosion inhibitors" and "Beneficial role of surfactants in corrosion protection of metallic materials of construction" Department of Corrosion, Saline Water Desalination Research Institute (SWDRI), Saline Water Conversion Corporation (SWCC), Al-Jubail, Saudi Arabia, February 24, 2014.
15. Delivered technical lecture on "Corrosion and corrosion control in power and desalination plants", for operation, maintenance and testing & inspection engineers, Training centre, Saline Water Conversion Corporation (SWCC), Al-Jubail, Saudi Arabia, Feb 22, 2005.

#### **SYMPOSIA CHAIRMAN**

1. Symposia Chairman, "Marine corrosion and offshore" AMPP India Chapter, Corrosion Conference and Exhibition-CORCON 2024 held at Chennai, India, November 20-23, 2024.
2. Symposia Chairman, "Marine corrosion and offshore" AMPP India Chapter, Corrosion Conference and Exhibition-CORCON 2023 held at Mumbai, India, October 25-28, 2023.
3. Symposia Chairman, "Marine corrosion and offshore" AMPP India Chapter, Corrosion Conference and Exhibition-CORCON 2022 held at Udaipur, India, September 19-21, 2022.
4. Symposia Chairman, "Microbial corrosion and inhibitors" NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2019 held at Mumbai, India, September 23-26, 2019.

### **VISITING FACULTY**

- Visiting Professor, Department of Chemistry, King Saud University, Riyadh, Saudi Arabia, February 15-23, 2014.
- Visiting Professor, Al-Farabi Kazakh National University, Almaty, Kazakhstan, June 01-June 30, 2024.

### **CITATION INDICES**

- Citations:7044; h-index :46; i10-index:126  
(<https://scholar.google.com/citations?user=2vV08o4AAAAJ>)

### **SPECIALIZATION/ EXPERTISE AVAILABLE**

- Green corrosion inhibitors
- Smart anticorrosive coatings
- Hot/High temperature corrosion/High temperature coatings
- Root cause failure investigation

### **MEMBERSHIP OF LEARNED SOCIETIES**

- Fellow, Royal Society of Chemistry (FRSC), Membership Number: 756183
- Member, American Chemical Society (ACS), Membership Number: 30383369
- Life Member, Indian Society of Analytical Scientists-Delhi Chapter (ISAS-DC), Membership Number: LMT-2008/133 ([www.isasdelhi.org](http://www.isasdelhi.org))
- Member (past), NACE International, USA, Member Number: 233473
- Member (past), International Desalination Association (IDA), USA
- Fellow (past), Society for Advancement of Electrochemical Sci. & Tech. (SAEST), India
- Honorary appointment to the RESEARCH BOARD OF ADVISORS 2000 American Biographical Institute, USA

## RESEARCH PROJECTS UNDERTAKEN

Completed 40 research projects including 3 under international collaboration (Academic: 08, Industrial: 04, Root cause failure investigation: 28)

### Academic Research Projects

1. Development of Smart Functional Coatings Loaded with Stimuli-Responsive Nanocontainers for Corrosion Sensing and Protection (28-1-2021-27-1-2024), funded by CSIR, New Delhi [No.22(0832)/20/EMR-II] (**Principal Investigator**).
2. Development of some anticorrosive conducting polymer-based nano-composite coatings on iron-base alloys, (27-1-2014-26-1-2017) funded by CSIR, New Delhi [No. 01(2746/13/EMR-II)] (**Principal Investigator**).
3. Development of Some Conducting Polymer Coatings for Protection of Steels against Corrosion, (01-4-2008-31-3-2011) funded by UGC, New Delhi [F. No. 33-284/2007 (SR)] (**Principal Investigator**).
4. The effect of heavy metal ions on the localized corrosion behavior of steels" (March 31, 2003-March 30, 2005), funded by SWCC, K.S.A. SWCC's Technical Report No. TR- APP3804/96010 (**Principal Investigator**).
5. Studies on the determination of maximum chloride level in product water transmitted through pipelines A, B and C, (16-8-2004-15-8-2005), funded by SWCC, K.S.A. SWCC's Technical Report No. TR- APP3804/05003 (**Co-Investigator**).
6. Solubility of Transition Metal Oxides in Na<sub>2</sub>SO<sub>4</sub> and a comparative study of Na<sub>2</sub>SO<sub>4</sub>- Induced Hot Corrosion Behavior of Corresponding Metal Systems (1995-96), funded by A.M.U. Aligarh (**Principal Investigator**).
7. Development of Some High Temperature Corrosion Resistant Inorganic Coatings on Iron-Base" (1997-98), funded by A.M.U. Aligarh (**Principal Investigator**).
8. Development of Some Modified Aluminide Coatings on Iron-Base Alloys" (1998-99), funded by A.M.U. Aligarh (**Principal Investigator**).

### Industrial Research Projects

9. Evaluation of Alvenius Thermoplastic Coated Pipes for High-Pressure SWRO Applications (11-3-2005-10-3-2006), funded by AB Alvenius Industrier, Sweden, SWCC's Technical Report No. EVP3804/03005 (**Principal Investigator**).
10. Performance Evaluation of Some Fusion Bonded Epoxy Coatings Under Water Transmission Line Conditions (30-6-2004-29-6-2006), Materials offered by 3M, DuPont and AKZO Nobel. SWCC's Technical Report No. EVP 3804/02002 (**Principal Investigator**).

11. Study on Corrosion Resistance of Various Stainless Steels for Seawater Pumps (06-4-2005-05-4-2007), funded by EBARA Research, Japan. SWCC's Technical Report No. EVP 3804/03001 **(Co-Investigator)**.
12. Corrosion Protection Evaluation of Some Steel and Cementitious Materials Coated with Souplethane (20-9-2003-19-9-2004), funded by Rezayat Kemica Protection Coating, K.S.A. SWCC's Technical Report No. EVP 3804/03002 **(Co-Investigator)**.

### **Root Cause Failure Analysis/Trouble Shooting Projects**

13. Failure analysis of bottom plate/annular plate of product water tank # 2, Al-Shuqaiq plant" (July 2006) SWCC's Technical Report No. TSR 3804/05008 **(Principal Investigator)**.
14. Acid cleaning and passivation of boiler # 8 PH-III, Al-Khobar plants" (April 2006) SWCC's Technical Report No. TSR 3804/06002 **(Principal Investigator)**.
15. Investigation on the failure of boiler # 1 economizer tubes, Shuqaiq plant" (July 2005) SWCC's Technical Report No. TSR 3804 / 05007 **(Principal Investigator)**.
16. Investigations on the problem of oil leakage in control oil piping of steam turbine unit # 1, Medina-yanbu plants" (June 2005) SWCC's Technical Report No. TSR 3804/05006 **(Co-Investigator)**.
17. Investigations on the leakage in RWTS, Line – A at 24 KM (A/B) (March 2005) SWCC's Technical Report No. TSR 3804/05003 **(Co-Investigator)**.
18. Failure analysis of bottom plate of potable water tank, Phase-II, Medina-Yanbu plants (February 2005) SWCC's Technical Report No. TSR 3804/04014 **(Principal Investigator)**.
19. Investigation on the cause of corrosion of flash chamber bottom plate in Al-Khobar plants phase-III" (December 2004) SWCC's Technical Report No. TSR 3804/04016 **(Co-Investigator)**.
20. Investigation on the suitability of a high pressure (HP) metal hose in Al-Jubail plants" (November 2004) SWCC's Technical Report No. TSR 3804/04015 **(Co-Investigator)**.
21. Full analysis of furnace wall tube samples from Boiler # 6, ph-III, Al-Khobar plants" (March 2004) SWCC's Technical Report No. TSR 3804/04006 **(Principal Investigator)**.
22. Analysis of water wall tubes unit # 6 Shoaiba phase II project" (October 2003) SWCC's Technical Report No. TSR 3804/03020 **(Co-Investigator)**.
23. Investigations on the cause of leakages in the weldments of water rejection pipes-Medina-Yanbu plants" (July 2003), SWCC's Technical Report No. TSR 3804/03002 **(Co-Investigator)**.
24. Root cause failure analysis of U-62 BFPT main oil pump gear from Al- Jubail plants" (March 2003), SWCC's Technical Report No. TSR 3804/02025 **(Co-Investigator)**.

25. Full analysis of water wall and super heater tube samples from unit # 4 boiler, ph-1, Al-Jubail plants" (December 2003) SWCC's Technical Report No. TSR 3804/03022 **(Principal Investigator)**.
26. Investigation on the corrosion failure in boiler # 3, Shoaiba plant phase-I" (December 2004) SWCC's Technical Report No. TSR 3804/04017 **(Principal Investigator)**.
27. Failure analysis of turbine # 7 main oil pump driven gear-Medina-Yanbu plants" (August 2003), SWCC's Technical Report No. TSR 3804/03010 **(Principal Investigator)**.
28. Investigation on the condition of Magnetite film on water wall tube, Boiler# 9, AK-Phase III" (May 2003), SWCC's Technical Report No. TSR 3804/02015 **(Principal Investigator)**.
29. Determination of the cause of failure of Main Exciter of unit # 2 Generator in Al-Khobar phase-II plant" (Nov. 2002), SWCC's Technical Report No. TSR 3804/02021 **(Principal Investigator)**.
30. Re-tubing and repair of high pressure feed water heater # 1 (unit # 2) - Shoaiba plant" (Nov. 2002), Report submitted to Shoaiba plant **(Principal Investigator)**.
31. Failure of Al- Khobar-III Main cooling water pumps impeller" (Nov. 2002), Report submitted to Al- Khobar plant **(Principal Investigator)**.
32. Investigation on the corrosion of bottom plate of main fuel oil tank # 3" (July 2002), SWCC's Technical Report No. TSR 3804/02014 **(Principal Investigator)**.
33. Investigations on the corrosion of Micron cartridge filter components in SWRO plant, Al- Jubail" (June 2002), SWCC's Technical Report No. TSR 3804/02011 **(Principal Investigator)**.
34. Investigation on the failure of P 100 High Pressure pump motor bearing oil cooler from SWRO, Al- Jubail plants" (February 2002), SWCC's Technical Report No. TSR 3804/20036 **(Principal Investigator)**.
35. Investigation on the bolt failure, phase 2A, Desal-3B pump" (Dec. 2002), SWCC's Technical Report No. TSR 3804/02020 **(Co-Investigator)**.
36. Analysis of water wall tubes (# 55&61) and super heater tubes (# 11&39) Boiler unit-3, phase 1, Al- Jubail plants" (Dec. 2002), SWCC's Technical Report No. TSR 3804/02026 **(Co-Investigator)**.
37. Testing of water wall tubes for flame impingement-Shoaiba phase-II project" (Dec. 2002), SWCC's Technical Report No. TSR 3804/02022 **(Co-Investigator)**.
38. Determination of the cause of failure of a broken bolt below the water drum in boiler # 4 of Madina Yanbu plant" (March 2002), SWCC's Technical Report No. TSR 3804/02002 **(Co-Investigator)**.
39. Acid cleaning of oil cooler tube from brine recycle pump of Al- Jubail plants" (December 2001), SWCC's Technical Report No. TSR 3804/20040 **(Principal Investigator)**.
40. Investigation on the corrosion of valve disc of High Pressure pump in SWRO plant, Al- Jubail" (September 2001), SWCC's Technical Report No. TSR 3804/20034 **(Co-Investigator)**.

## ADMINISTRATIVE EXPERIENCE

- **Vice Chancellor**, Cluster University of Srinagar, Jammu and Kashmir, India, July 25, 2024 to continuing.
- **Vice-Chairman**, Alumni Affairs Committee, Aligarh Muslim University, December 13, 2019 to July 24, 2024.
- **Chairman**, Department of Applied Chemistry, Faculty of Engineering and Technology, Aligarh Muslim University, March 20, 2019-January 02, 2021 (**01 Year 09 months**).
- **Chairman**, Department of Applied Chemistry, Faculty of Engineering and Technology, Aligarh Muslim University, July 01, 2012 - June 30, 2015 (**03 Years**).
- **Chairman**, Department of Applied Chemistry, Faculty of Engineering and Technology, Aligarh Muslim University, July 22, 2009-August 27, 2009 (**01 Month**).
- **Founder Coordinator**, University Sophisticated Instrument Facility (USIF), Aligarh Muslim University, May 10, 2011- May 09, 2013 (**02 Years**).
- **Superintendent of Exams**, Faculty of Engineering and Technology, Aligarh Muslim University, October 09, 2010-October 08, 2011 (**01 Year**).
- **Member-In-Charge**, AMU Press, September 08, 2009-September 07, 2010 (**01 Year**).
- **Provost**, Ross Masood Hall (Residential Hall with approx.800 students and 80 employees), Aligarh Muslim University, December 2, 2006-June 20, 2009 (**02 Years and 06 months**).
- **Deputy Proctor**, Aligarh Muslim University, September 13, 2006 to December 01, 2006 (~ **03 Months**).
- **Warden**, Allama Iqbal Hall, V.M. Hall, M.M. Hall, M.H. Hall during the period 1988-1998.

## IMPORTANT ACADEMIC ACHIEVEMENTS

- Shortlisted for the Post of Vice-Chancellor, Jamia Millia Islamia, New Delhi, February, 2024.
- Shortlisted for the Post of Vice-Chancellor, University of Kashmir, Srinagar, J & K, April, 2022.
- Undertaken MHRD, Government of India, 3 weeks Leadership for Academicians Programme (LEAP) training held at IIT(BHU) Varanasi (Dec 08, 2019 - Dec 21, 2019) and at the University of Cambridge, UK (Jan 19, 2020 - Jan 25, 2020) designed for the purpose of preparing senior Faculty for future governance roles as leaders in academic institutions.
- Evaluated 13 major research project proposals from King Saud University, Riyadh, Saudi Arabia.
- Advisor, Union Public Service Commission (UPSC), New Delhi since 2009.
- Chairperson, NAAC Peer Team

- Nominated by the academic council of Umm Al Qura University, Makkah, Saudi Arabia (2023) to examine and evaluate academic research papers submitted for the purpose of promotion to the status of Professor in the academic field of Chemistry (Physical chemistry).
- Assessor for the appointment of Associate Professors and Professors at Umme Qura University, Makkah, KSA (2023).
- Introduced a new interdisciplinary, employment-oriented Post Graduate program bearing relevance to the requirements of employers from both industry and academia "M.Sc. Polymer Science and Technology" with an intake of 20 students in the department of Applied Chemistry, Faculty of Engineering & Technology from the academic session 2013-14. The course is successfully running in the department.
- Successfully introduced 03 PG programs namely, Artificial Intelligence & Machine Learning, Data Science and Music in Cluster University Srinagar from the session 2025-2026.
- Convened National workshop on "Advances in polymeric materials" at the Department of Applied Chemistry, Faculty of Engineering and Technology, Aligarh Muslim University, September 21-22, 2013 to further strengthen the M.Sc. Polymer Science and Technology course.
- Played a major role in conceptualising the idea of setting up of a central instrumentation facility at AMU Aligarh having the state of art analytical instruments. Contributed in the selection and prioritization of sophisticated instruments, arrangement of funds, their procurement and installation. With the funding from DST under PURSE program state of the art ultra-high resolution Transmission Electron Microscope (TEM) and Scanning Electron Microscope (SEM) with EDS facilities were acquired at the cost of approximately Re 03 Crores. Framed the ordinances and regulations governing the USIF and extended the facilities at USIF to the researchers from other organizations of the country. To ensure the smooth running of the sophisticated instruments a revolving fund was created.
- Evaluated PhD thesis on corrosion and related topics from North-West University, South Africa; IIT(ISM), Dhanbad; IIT(BHU), Varansi; Jamia Millia Islamia, New Delhi; Indian Institute of Petroleum, Dehradun; Anna University, Chennai, Sathyabama University, Chennai; Madras University; Visvesvaraya Technological University, Karnataka; Bharathidasan University, Tiruchirappalli, Integral University, Lucknow.
- Reviewer for important international journals from American Chemical Society, Royal Society of Chemistry, Elsevier, Springer Nature, Taylor & Francis, Wiley etc.
- In the year 2019, based on my experience and expertise in the field of Materials and Corrosion and development of anticorrosion materials I was considered as one of the collaborators/strategic partners and offered the position of "Materials Science Expert" by the Desalination Technologies Research Institute (DTRI), Saline Water Conversion Corporation (SWCC), Al-Jubail, Saudi Arabia. DTRI, the

research arm of SWCC (a government corporation that operates the desalination and power plants in Saudi Arabia) is the largest research centre in the world devoted to the development of desalination technologies. The offer from SWCC was in line to achieve “Vision 2030” the new vision of Saudi Arabia. The SWCC wrote a letter to the then Vice Chancellor of A.M.U. Aligarh Prof. Tariq Mansoor for my Deputation to Kingdom but same could not be materialized due to some technical reasons.

## **MEMBER OF STATUTORY BODIES**

- **Member**, Faculty of Engineering and Technology, AMU Aligarh (March 20, 2005 to till date).
- **Member**, Executive Council, AMU Aligarh (July 13, 2007 –June 20, 2009).
- **Member**, AMU-Court, AMU Aligarh (July 13, 2007 –June 20, 2009).
- **Member**, AMU-Court, AMU Aligarh (July 27, 2014-June 30, 2015).
- **Member**, Academic Council AMU, Aligarh (July 13, 2007 –June 20, 2009).
- **Member**, Academic Council, AMU Aligarh (July 22, 2009 –August 27, 2009).
- **Member**, Academic Council, AMU Aligarh (July 01, 2012- June 30, 2015).
- **Member**, Academic Council, AMU Aligarh (March 20, 2019-January 02, 2021).
- **Member**, Board of studies, Department of Civil Engineering, AMU Aligarh (2012-14).
- **Member**, Board of studies, Department of Chemical Engineering, AMU Aligarh (September 19, 2013-September 18, 2015).
- **Member**, Board of studies, Department of Chemistry, AMU Aligarh (August 03, 2018-August 02, 2020).
- **Member**, Board of studies, Department of Mathematics, AMU Aligarh (February 18, 2021-Continuing).
- **Member**, Board of studies, Department of Computer Engineering, AMU Aligarh (August 17, 2021-Continuing).
- **Member** of committee constituted by Academic Council, AMU Aligarh to discuss and decide the issues relating to the Industrial Chemistry as an allied subject in the discipline of Chemistry for recruitment of Assistant Professor in University Polytechnic (Office Memo No. (C)/3473 dated January 12, 2021).
- **Member**, Board of studies, Cluster University, Srinagar (May 25, 2022-May 24, 2024).
- **Member** (Senior academician from outside the department), Departmental Academic Integrity Panel (DAIP), Department of Chemistry, AMU, Aligarh (September 04,2023- July 24, 2024).
- **Member**, Academic Council, Islamic University of Science & Technology, Awantipora (Aug. 02, 2024 to Aug. 01, 2026)
- **Member**, University Council, University of Kashmir, UT of Jammu & Kashmir (July 25,2024-till date)

- **Member**, University Council, University of Jammu, UT of Jammu & Kashmir July 25,2024-till date)
- **Member**, University Council, Cluster University of Jammu, UT of Jammu & Kashmir July 25,2024-till date)
- **Member**, Academic Council, Baba Ghulam Shah Badshah University Rajouri, J & K. (Sept 11, 2025 to Sept 10, 2027)

## REVIEWER OF JOURNALS

- (Only selected journals are listed):

Chemical Engineering Journal (Elsevier), Carbohydrate Polymers (Elsevier), Journal of Colloid and Interface Science (Elsevier), ACS Appl. Mater. Interfaces (ACS), Applied Surface Science (Elsevier), Journal of Molecular Liquids (Elsevier), International Journal of Biological Macromolecules (Elsevier), Progress in Organic Coatings (Elsevier), Journal of Alloys and Compounds (Elsevier), Materials Chemistry and Physics (Elsevier), RSC Advances (RSC), ACS Omega (ACS), Scientific Reports (Springer Nature), J. of Adhesion Science and Technology (Taylor & Francis).

## FOREIGN VISIT FOR ACADEMIC PURPOSE :

- USA, UK, China, South Korea, Singapore, Saudi Arabia, Kazakhstan

## RESEARCH PUBLICATIONS

- Total Papers Published: 196 (Foreign Journals: 146, Indian Journals: 08, Foreign Conference Proc.: 12, National Conference Proc.: 30)

### Papers Published in Foreign Journals

1. R. Aslam, K. Cial, **M. Mobin**, Zhitao Yan, Electrochemical Performance and Surface Adsorption Behavior of Amino Acid/Gemini Surfactants Synergistic Systems as Corrosion Inhibitors, Journal of Adhesion Science and Technology, (Taylor & Francis), <https://doi.org/10.1080/01694243.2026.2643402>  
**Impact Factor 3.7 (Q1)**
2. Babar Khan, **M. Mobin\***, K. Cial, M. Parveen, S. Zehra, Evaluation of Cassia fistula fruit extract as a sustainable corrosion inhibitor for mild steel in 5% HCl, Journal of Dispersion Science and Technology (Taylor & Francis), <https://doi.org/10.1080/01932691.2026.2640415>  
**Impact Factor 1.9 (Q2)**
3. Babar Khan, **M. Mobin\***, K. Cial, S. Zehra, Polypodium Leucotomos Extract as a Promising Corrosion Inhibitor for Mild Steel in 5% HCl: Insights from Gravimetric, Electrochemical and Surface and Studies, Surfaces and Interfaces (Elsevier) <https://doi.org/10.1016/j.surfin.2025.107999>  
**Impact Factor 6.3 (Q1)**

4. S. Zehra, **M. Mobin\***, R. Ahmad, M. Parveen, B. Khan, Advances in Nanocomposite Coatings for Corrosion Protection of Ferrous and Aluminum Alloys: Mechanism, Performance, and Future Perspectives, Journal of Adhesion Science and Technology (Taylor & Francis), <https://doi.org/10.1080/01694243.2025.2574994>

#### **Impact Factor 3.7 (Q1)**

5. S. Masroor, MZA Rafiquee, A. Kumar, **M. Mobin**, Omar Dagdag, Avni Berisha, M. E. Khan, Anionic surfactant and its nanocomposite as corrosion inhibitors for dental implants, Odontology (Springer Nature), <https://doi.org/10.1007/s10266-025-01192-4>

#### **Impact Factor 2.4 (Q1)**

6. **M. Mobin\***, Babar Khan, Kanika Cial, Saman Zehra, Sustainable Corrosion Protection of Mild Steel in 5% HCl Using Comfrey Leaves Extract, Next Materials (Elsevier), 9 (2025) 101097, <https://doi.org/10.1016/j.nxmte.2025.101097>.

#### **Impact Factor 0.671 (Q1)**

7. R. Aslam, Q. Wang, J. Aslam, **M. Mobin**, C. M. Hussain, Z. Yan, Effect of temperature, and immersion time on the inhibition performance of Q235 steel using spent coffee grounds derived carbon quantum dots: Electrochemical, spectroscopic and surface studies, Biomass and Bioenergy (Elsevier), 200 (2025) 107961, <https://doi.org/10.1016/j.biombioe.2025.107961>

#### **Impact Factor 5.8 (Q1)**

8. S. Zehra, R. Aslam, J. Aslam, C. Verma, Z. Yan, Q. Wang, **M. Mobin**, and A. AlFantazi, Chemically Functionalized Polymers as Corrosion Inhibitors: Effect of Solubility, Adsorption and Coordination Bonding, Coordination Chemistry Reviews (Elsevier), 535 (2025) 216637, <https://doi.org/10.1016/j.ccr.2025.216637>.

#### **Impact Factor 23.5 (Q1)**

9. R. Aslam, A. Aslam, Qihui Wang, **M. Mobin**, Zhitao Yan, Exploration of corrosion inhibition performance of biocompatible ionic liquids: Effect of switching the anions, Journal of Molecular Structure (Elsevier), 1327 (2025) 141193, <https://doi.org/10.1016/j.molstruc.2024.141193>

#### **Impact Factor 4.7 (Q2)**

10. M. Parveen, **M. Mobin\***, Huda, S. Zehra, M. Murmu, P. Banerjee, L-tryptophanium picrate as novel anticorrosion agent for mild steel in 5% HCl: A detailed experimental and in silico investigation, Journal of Molecular Structure (Elsevier), 1324 (2025) 140894, <https://doi.org/10.1016/j.molstruc.2024.140894>

#### **Impact Factor 4.7 (Q2)**

11. **M. Mobin\***, Babar Khan, K. Cial, Custard Apple leaves extract as sustainable corrosion inhibitor for mild steel in 5% HCl, Journal of Adhesion Science and Technology (Taylor & Francis), <https://doi.org/10.1080/01694243.2024.2434663>

#### **Impact Factor 3.7 (Q1)**

12. **M. Mobin\***, K. Cial, R. Aslam, S. Zamindar, P. Banerjee, Mitigation effect of a biodegradable surfactant N,N,N-trimethyl-2-(((hexadecyloxy)carbonyl)oxy)ethan-1-aminiumiodide for mild steel corrosion in 5% HCl: Experimental and theoretical insights, Materials Today Communications (Elsevier), 41 (2024) 110696, <https://doi.org/10.1016/j.mtcomm.2024.110696>

#### **Impact Factor 4.5 (Q2)**

13. M. Kamboj, M. Rathi, N. Sandhu, V. Saraswat, B. Khan, **M. Mobin**, A.P. Singh, Melamine based novel porous polymer for detection of m-CPBA and its concomitant corrosion inhibition behaviour, J. Industrial and Engineering Chemistry (Elsevier), 144 (2025) 642-653,

#### **Impact Factor 6 (Q1)**

14. M. Murmu, Huda, **M. Mobin**, R. Aslam, Priyabrata Banerjee, Adsorption of L-proline nitrate modified graphene oxide on iron surface: Density functional theory and monte Carlo simulation study, Computational Materials Science (Elsevier), 242 (2024) 113071, <https://doi.org/10.1016/j.commatsci.2024.113071>

#### **Impact Factor 3.3 (Q1)**

15. S. I. Bhat, **M. Mobin\***, S. Islam, S. Zehra, S. U. Islam, Recent advances in anticorrosive coatings based on sustainable polymers: challenges and perspectives, Surface & Coatings Technology (Elsevier), 480 (2024) 130596 <https://doi.org/10.1016/j.surfcoat.2024.130596>

#### **Impact Factor 6.1 (Q1)**

16. **M. Mobin\***, Huda, S. Zamindar, Priyabrata Banerjee, Mechanistic insight into adsorption and anti-corrosion capability of a novel surfactant-derived ionic liquid for mild steel in HCl medium, Journal of Molecular Liquids (Elsevier), 385 (2023) 122403, <https://doi.org/10.1016/j.molliq.2023.122403>.

#### **Impact Factor 5.2 (Q1)**

17. J. Aslam, S. Zehra, **M. Mobin**, M.A. Quraishi, C. Verma, R. Aslam, Metal/metal oxide-carbohydrate polymers framework for industrial and biological applications: Current advancements and future directions, Carbohydrate Polymer (Elsevier), 314 (2023) 120936, <https://doi.org/10.1016/j.carbpol.2023.120936>.

#### **Impact Factor 12.5 (Q1)**

18. **M. Mobin\***, I. Ahmad, M. Murmu, P. Banerjee, R. Aslam, Descriptive evaluation of corrosion inhibition properties of polysaccharide extracted from *Lepidium meyenii* root for mild steel in acidic medium: Experimental, DFT and Monte Carlo Simulation Studies, Journal of Physics and Chemistry of Solids (Elsevier), 179 (2023) 111411, <https://doi.org/10.1016/j.jpcs.2023.111411> .

#### **Impact Factor 4.9 (Q1)**

19. S. M.Adnan, M. Shoeb, M. Z. Ansari, F. Mashkooor, **M. Mobin**, S. Zaidi, C. Jeong, Polyaniline (PANI/NiO-CuO) nanocomposite based symmetric supercapacitor

device for High-Energy Density performance with wide potential window in aqueous electrolyte, *Inorganic Chemistry Communications* (Elsevier), 117 (2023) 111265, <https://doi.org/10.1016/j.inoche.2023.111265>.

**Impact Factor 3.8 (Q1)**

20. S. Zehra, **M. Mobin\***, R. Aslam, S.I. Bhat, Nanocontainers: A comprehensive review on their application in the stimuli-responsive smart functional coatings, *Progress in Organic Coatings* (Elsevier) 176 (2023) 107389, <https://doi.org/10.1016/j.porgcoat.2022.107389>.

**Impact Factor 6.6 (Q1)**

21. **M. Mobin\***, F. Ansar, M. Shoeb, Chitosan-polyaniline-TiO<sub>2</sub> ternary nanocomposite coating as effective anti-corrosion materials for low carbon steel in 3.5 wt % NaCl solution, *J. of Adhesion Science and Technology* (Taylor & Francis), 37 (2023) 3187-3205 <https://doi.org/10.1080/01694243.2023.2179862>.

**Impact Factor 2.431 (Q2)**

22. **M. Mobin\***, F. Ansar, Polythiophene (PTh)-TiO<sub>2</sub>-reduced graphene oxide (rGO) nanocomposite coating: synthesis, characterization, and corrosion protection performance on low carbon steel in 3.5 wt% NaCl solution, *ACS Omega*, 7 (50) (2022) 46717-46730, <https://doi.org/10.1021/acsomega.2c05678>.

**Impact Factor 4.3 (Q1)**

23. R. Aslam, **M. Mobin\***, S. Zehra, J. Aslam, A comprehensive review of corrosion inhibitors employed to mitigate stainless steel corrosion in different environments, *Journal of Molecular Liquids* (Elsevier), 364 (2022) 119992, <https://doi.org/10.1016/j.molliq.2022.119992>.

**Impact Factor 6 (Q1)**

24. C. Verma, S. Zehra, R. Aslam, J. Aslam, M. A. Quraishi and **M. Mobin**, MXenes as Emerging 2D Materials for Anticorrosive Application: Challenges and Opportunities, *Advanced Materials Interfaces* (Wiley), 9 (28) (2022) 2200579, <https://doi.org/10.1002/admi.202200579>.

**Impact Factor 6.389 (Q1)**

25. **M. Mobin\***, Irfan Ahmad, R. Aslam, Megha Basik, Characterisation and Application of Almond Gum-Silver Nanocomposite as an Environmentally Benign Corrosion Inhibitor for Mild Steel in 1 M HCl, *Materials Chemistry and Physics* (Elsevier), 289 (2022) 126491, <https://doi.org/10.1016/j.matchemphys.2022.126491>

**Impact Factor 4.778 (Q1)**

26. R. Aslam, **M. Mobin\***, M. Shoeb, J. Aslam, Novel ZrO<sub>2</sub>-Glycine nanocomposite as eco-friendly high temperature corrosion inhibitor for mild steel in hydrochloric acid solution, *Scientific Reports* (Springer Nature), 12 (2022) 9274, <https://doi.org/10.1038/s41598-022-13359-y>

**Impact Factor 4.996 (Q1)**

27. **M. Mobin\***, Irfan Ahmad, M. Shoeb, Investigation into the highly efficient artemisia absinthium-silver nanoparticles composite as a novel environmentally benign corrosion inhibitor for mild steel in 1M HCl, *Journal of Adhesion Science*

and Technology (Taylor & Francis), 36 (2022) 2562-2587, <https://doi.org/10.1080/01694243.2022.2075523> .

**Impact Factor 2.077 (Q2)**

28. A. Raza, M. Shoeb, F. Mashkoo, S. Rahaman, **M. Mobin**, C. Jeong, M. Y. Ansari, A. Ahmad, Phoenix dactylifera mediated green synthesis of Mn doped ZnO nanoparticles and its adsorption performance for methyl orange dye removal: A comparative study, Materials Chemistry and Physics (Elsevier), 286 (2022) 126173, <https://doi.org/10.1016/j.matchemphys.2022.126173> .

**Impact Factor 4.778 (Q1)**

29. **M. Mobin\***, R. Aslam, R. Salim, Savaş Kaya, An investigation on the synthesis, characterization and anti-corrosion properties of choline based ionic liquids as novel and environmentally friendly inhibitors for mild steel corrosion in 5% HCl, Journal of Colloid and Interface Science (Elsevier), 620 (2022) 293-312, <https://doi.org/10.1016/j.jcis.2022.04.036> .

**Impact Factor 9.7 (Q1)**

30. **M. Mobin\***, Huda, M. Shoeb, R. Aslam, P. Banerjee, Synthesis, characterization and corrosion inhibition assessment of a novel ionic liquid-graphene oxide nanohybrid, Journal of Molecular Structure (Elsevier), 1262 (2022) 133027, <https://doi.org/10.1016/j.molstruc.2022.133027> .

**Impact Factor 4.7 (Q2)**

31. J. Aslam, **M. Mobin**, Huda, A. Aslam, R. Aslam, Corrosion inhibition performance of multi-phytoconstituents from Eucalyptus bark extract on mild steel corrosion in 5% HCl solution, International Journal of Environmental Science and Tech (Springer), (2022), <https://doi.org/10.1007/s13762-022-04152-5> .

**Impact Factor 3.519 (Q2)**

32. M. Shoeb, **M. Mobin\***, S. M. Adnan, I. I. Ansari, M. N. Khan, S. Zaidi, M. Y. Ansari, Facile synthesis of a Gr-Ag/PIn nanocomposite as a binder free electrode for high performance supercapacitor application, Surfaces and Interfaces (Elsevier), 28 (2022) 101650, <https://doi.org/10.1016/j.surfin.2021.101650> .

**Impact Factor 6.2 (Q1)**

33. **M. Mobin\***, M. Parveen, Huda, R. Aslam, Effect of different additives, temperature and immersion time on the corrosion inhibition behaviour of L-valine for mild steel corrosion in 5% HCl solution, J. of Physics and Chemistry of Solids (Elsevier), 161 (2022) 110422, <https://doi.org/10.1016/j.jpics.2021.110422> .

**Impact Factor 4.383 (Q1)**

34. R. Aslam, **M. Mobin\***, J. Aslam, A. Aslam, S. Zehra, S. Masroor, Application of surfactants as anticorrosive materials: A comprehensive review, Advances in Colloidal and Interface Science, 295 (2021) 102481, <https://doi.org/10.1016/j.cis.2021.102481> .

**Impact Factor 15.6 (Q1)**

35. R. Aslam, **M. Mobin\***, Huda, M. Murmu, P. Banerjee, J. Aslam, L-alanine methyl ester nitrate ionic liquid: synthesis, characterization and anti-corrosive

application, Journal of Molecular Liquids (Elsevier), 334, (2021) 116469, <https://doi.org/10.1016/j.molliq.2021.116469> .

**Impact Factor 6 (Q1)**

36. R. Aslam, **M. Mobin\***, Huda, M. Shoeb, M. Murmu, P. Banerjee, Proline nitrate ionic liquid as high temperature acid corrosion inhibitor for mild steel: Experimental and Molecular-level insights, Journal of Industrial and Engineering Chemistry (Elsevier), 100 (2021) 333-350, <https://doi.org/10.1016/j.jiec.2021.05.005> .

**Impact Factor 6.1 (Q1)**

37. S. Zehra, **M. Mobin\***, R. Aslam, H. Lgaze, Ill-Min Chung, Assessment of biodegradable glycine and glutamic acid based ionic liquids as mild steel corrosion inhibitors in acid solution: an experimental and theoretical approach, Journal of Molecular Structure Journal of Molecular Structure (Elsevier), 1240 (2021) 130505, <https://doi.org/10.1016/j.molstruc.2021.130505> .

**Impact Factor 4.7 (Q2)**

38. M. Shoeb, **M. Mobin\***, Sharique Ahmad, A.H. Naqvi, Facile synthesis of polypyrrole coated graphene Gr/Ag-Ag<sub>2</sub>O/ppy nanocomposites for rapid and selective response towards ammonia sensing at room temperature, J. of Science: Advanced Materials and Devices (Elsevier), 6(2) (2021) 223-233, <https://doi:10.1016/j.jsamd.2021.02.003> .

**Impact Factor 6.8 (Q1)**

39. M. Shoeb, **M. Mobin\***, M. A. Rauf, S.M. Adnan, M.Y. Ansari, Graphene Nickel-Copper Nanocomposite (Gr@NiCu Ncs) as a Binder Free Electrode for High Energy Density Supercapacitor and Antimicrobial Application, Journal of Materiomics (Elsevier), 7(4) (2021) 815-827, <https://doi:10.1016/j.jmat.2020.12.008>

**Impact Factor 9.6 (Q1)**

40. R. Aslam, **M. Mobin\***, J. Aslam, H. Lgaz, Ill-Min Chung, S. Zehra, Synergistic inhibition behavior between rhodamine blue and cationic gemini surfactant on mild steel corrosion in 1 M HCl medium, Journal of Molecular Structure (Elsevier), 1228 (2021) 129751, <https://doi:10.1016/j.molstruc.2020.129751> .

**Impact Factor 4.7 (Q2)**

41. **M. Mobin\***, F. Ansar, M. Shoeb, M. Parveen, J. Aslam, Synergistic effect of graphene polyIndole nanocomposite for enhanced corrosion protection of aqueous coating in 3.5% NaCl solution for low carbon steel, Nano Select (Wiley) 2 (2021) 293-302, <https://doi:10.1002/nano.202000051> .

**Impact Factor 3.1**

42. **M. Mobin\***, Irfan Ahmad, Megha Basik, Manilal Murmu, Priyabrata Banerjee, Experimental and theoretical assessment of Almond Gum as an economically and environmentally viable corrosion inhibitor for mild steel in 1M HCl, Sustainable Chemistry and Pharmacy (Elsevier), 18 (2020) 100337, <https://doi:10.1016/j.scp.2020.100337> .

**Impact Factor 5.8 (Q1)**

43. J. Aslam, R. Aslam, S.H. Alrefaee, **M. Mobin**, A. Aslam, M. Parveen, C.M. Hussain, Gravimetric, electrochemical, and morphological studies of an isxazole derivative as corrosion inhibitor for mild steel in 1M HCl, Arabian journal of Chemistry (Elsevier), (11) (2020) 7744-775813, <https://doi.org/10.1016/j.arabjc.2020.09.008> .  
**Impact Factor 6 (Q1)**
44. R. Aslam, **M. Mobin\***, M. Shoeb, M. Parveen, S. Zehra, J. Aslam, Synthesis, characterization and corrosion inhibition performance of Glycine functionalized Graphene/Fe<sub>3</sub>O<sub>4</sub> nanocomposite (Gr/Fe@Gly NC) for mild steel corrosion in 1 M HCl, Arabian J. for Science and Engineering (Springer Nature), 46(6) (2020) 5489-5503, <https://doi.org/10.1007/s13369-020-05015-2> .  
**Impact Factor 2.9 (Q2)**
45. R. Aslam, **M. Mobin\***, Huda, I.B. Obot, A.H. Alamri, Ionic liquids derived from  $\alpha$ -amino acid ester salts as potent green corrosion inhibitors for mild steel in 1M HCl, Journal of Molecular Liquids (Elsevier), 318 (2020) 113982, <https://doi.org/10.1016/j.molliq.2020.113982>.  
**Impact Factor 5.2 (Q1)**
46. Megha Basik and **M. Mobin\***, Chondroitin sulfate as potent green corrosion inhibitor for mild steel in 1M HCl, Journal of Molecular Structure (Elsevier), 1214 (2020) 128231, <https://doi.org/10.1016/j.molstruc.2020.128231>.  
**Impact Factor 4.7 (Q2)**
47. S. Asmat, Q. Husain, M. Shoeb, **M. Mobin**, Tailoring a robust nanozyme formulation based on surfactant stabilized lipase immobilized onto newly fabricated magnetic silica anchored graphene nanocomposite: Aggrandized stability and application, Materials Science and Engineering: C (Elsevier), 112 (2020) 110883, <https://doi.org/10.1016/j.msec.2020.110883> .  
**Impact Factor 8.457 (Q1)**
48. J. Aslam, R. Aslam, I.H. Lone, N.R.E. Radwan, **M. Mobin**, A. Aslam, M. Perveen, A.A. Al-Fareedi and A. Alzulaibani, Nitroacridone on corrosion of low carbon steel in 1M HCl solution: An experimental-theoretical approach, Journal of Materials Research and Technology (Elsevier), 9 (2020) 4061-4075, <https://doi.org/10.1016/j.jmrt.2020.02.033> .  
**Impact Factor 6.4 (Q1)**
49. M. Jameel, M. Shoeb, M.T. Khan, R. Ullah, **M. Mobin**, M. Farooqi, M.S. Adnan, Enhanced insecticidal activity of thiamethoxam by zinc oxide nanoparticle: A novel nanotechnology approach for pest control, ACS Omega, 5(3) (2020) 1607-1615, <https://doi.org/10.1021/acsomega.9b03680> .  
**Impact Factor 4.3 (Q1)**
50. S. Masroor, **M. Mobin**, A. K. Singh, R. A. K. Rao, M. Shoeb and M. J. Alam, Aspartic di-dodecyl ester hydrochloride acid and its ZnO-NPs derivative, as ingenious green corrosion defiance for carbon steel through theoretical and experimental access, SN Applied Sciences, (Springer Nature), 2 (2) (2020) 144, <https://doi.org/10.1007/s42452-019-1515-z> .  
**Impact Factor 2.6 (Q2)**

51. **M. Mobin\***, Megha Basik and M. Shoeb, Cysteine-silver-gold Nanocomposite as potential stable green corrosion inhibitor for mild steel under acidic condition, Scientific Reports (Springer Nature), 10, (2020) 279, <https://doi.10.1038/s41598-019-57181-5> .

**Impact Factor 4.996 (Q1)**

52. S. Naseem, W. Khan, S. Khan, I. Uddin, W. Raza, M. Shoeb, **M. Mobin**, AH Naqvi, Enhanced photocatalytic activity by tuning of structural and optoelectrical properties of Cr(III) incorporated TiO<sub>2</sub> nanoparticles, Journal of Electronic Materials (Springer), 48(11) (2019) 7203-7215, <https://doi.org/10.1007/s11664-019-07499-7> .

**Impact Factor 2.047(Q2)**

53. J. Aslam, **M. Mobin\***, R. Aslam and F. Ansar, Corrosion Protection of Low Carbon Steel by Conducting Terpolymer Nanocomposite Coating in 3.5 wt% NaCl solution, J. of Adhesion Science and Technology (Taylor & Francis), 34(4) (2020) 443-460, <https://doi.10.1080/01694243.2019.1676599> .

**Impact Factor 3.7(Q2)**

54. R. Aslam, **M. Mobin\***, and J. Aslam, Hassane Lgaz and Ill-Min Chung, Inhibitory effect of sodium carboxymethylcellulose and synergistic biodegradable gemini surfactants as effective inhibitors for MS corrosion in 1 M HCl, Journal of Materials Research and Technology (Elsevier), 8 (2019) 4521-4533, <https://doi.org/10.1016/j.jmrt.2019.07.065>.

**Impact Factor 6.6(Q1)**

55. **M. Mobin\***, Megha Basik and Yasmina El Aoufir, Corrosion mitigation of mild steel in acidic medium using Lagerstroemia speciosa leaf extract: A combined experimental and theoretical approach, J. Molecular Liquids (Elsevier), 286 (2019) 110890, <https://doi.org/10.1016/j.molliq.2019.110890> .

**Impact Factor 5.2(Q1)**

56. **M. Mobin\***, R. Aslam and J. Aslam, Synergistic effect of cationic gemini surfactants and butanol on the corrosion inhibition performance of mild steel in acid solution, Materials Chemistry and Physics, (Elsevier), 223, (2019) 623-633. <https://doi.org/10.1016/j.matchemphys.2018.11.032> .

**Impact Factor 4.778(Q1)**

57. **M. Mobin\***, Megha Basik and Jeenat Aslam, Pineapple stem extract (Bromelain) as an environment friendly novel corrosion inhibitor for low carbon steel in 1M HCl, Measurement (Elsevier), 134 (2019) 595-605 <https://doi.org/10.1016/j.measurement.2018.11.003> .

**Impact Factor 5.6(Q1)**

58. **M. Mobin\***, Megha Basik and Mohd. Shoeb, A novel organic-inorganic hybrid complex based on Cissus quadrangularis plant extract and zirconium acetate as a green inhibitor for mild steel in 1M HCl solution, Applied Surface Science (Elsevier), 469 (2019) 387-403. <https://doi.org/10.1016/j.apsusc.2018.11.008> .

**Impact Factor 6.9(Q1)**

59. **M. Mobin\***, Megha Basik and J. Aslam, Boswellia serrata gum as highly efficient and sustainable corrosion inhibitor for low carbon steel in 1 M HCl solution:

Experimental and DFT studies, J. Molecular Liquids (Elsevier), 263 (2018) 174-186, <https://doi.org/10.1016/j.molliq.2018.04.150>.

**Impact Factor 5.2(Q1)**

60. M. Parveen, **M. Mobin\***, S. Zehra and R. Aslam, L-proline mixed with sodium benzoate as sustainable inhibitor for mild steel corrosion in 1M HCl: An experimental and theoretical approach, Scientific Reports (Springer Nature), 8 (2018) 7489, <https://doi.org/10.1038/s41598-018-24143-2> .

**Impact Factor 4.996(Q1)**

61. **M. Mobin\*** and R. Aslam, Experimental and theoretical study on corrosion inhibition performance of environmentally benign non ionic surfactants for mild steel in 3.5% NaCl solution, Process Safety and Environmental Protection (Elsevier), 114 (2018) 279-295, <https://doi.org/10.1016/j.psep.2018.01.001>.

**Impact Factor 7.8 (Q1)**

62. R. Aslam, **M. Mobin\***, J. Aslam and H. Lagaz, Sugar based N,N'-didodecyl-N,N'-digluconamideethylenediamine gemini surfactant as corrosion inhibitor for mild steel in 3.5% NaCl solution-effect of synergistic KI additive, Scientific Reports (Springer Nature), 8 (2018) 3690, <https://doi.org/10.1038/s41598-018-21175-6> .

**Impact Factor 4.996 (Q1)**

63. M.Z. Ansari, M. Shoeb, P.S. Nayab, **M. Mobin**, I.R. Khan, W.A. Siddiqi, Honey mediated green synthesis of graphene based NiO<sub>2</sub>/Cu<sub>2</sub>O nanocomposite (Gr@NiO<sub>2</sub>/Cu<sub>2</sub>O NCs): Catalyst for the synthesis of functionalized Schiff-base derivatives, Journal of Alloys and Compounds (Elsevier), 738, (2018) 56-71, <https://doi.org/10.1016/j.jallcom.2017.11.107>.

**Impact Factor 6.2 (Q1)**

64. M. Shoeb, **M. Mobin\***, A. Ali, Shamsuzzaman and A. H.Naqvi, Graphene-mesoporous anatase TiO<sub>2</sub> nanocomposite: A highly efficient and recyclable heterogeneous catalyst for one-pot multicomponent synthesis of benzodiazepine derivatives, Applied Organometallic Chemistry (Wiley), 32 (2018) e3969, <https://doi.org/10.1002/aoc.3961>.

**Impact Factor 4.072 (Q2)**

65. **M. Mobin\***, Marzia Rizvi, Polysaccharide from Tamarindus indica as a promising green inhibitor for low carbon steel corrosion in 1 M HCl, Organic Chem Curr Res, 7 (2018), 131, <https://doi.org/10.4172/2161-0401-C1-023> .

**Impact Factor 3.81**

66. M. Nadeem, W. Khan, S. Khan, M. Shoeb, S. Husain, **M. Mobin**, Significant enhancement in photocatalytic performance of Ni doped BiFeO<sub>3</sub> nanoparticles, Materials Research Express (IOPscience), 5(6) (2018) 065506, <https://doi.org/10.1088/2053-1591/aac70d> .

**Impact Factor 1.609 (Q2)**

67. J. Aslam, I.H. Lone, N. Radwan, **M. Mobin**, S. Zehra, R. Aslam, Development of poly(aniline-co-o-toluidine)/TiO<sub>2</sub> nanocomposite coatings for low carbon steel corrosion in 3.5% NaCl solution, J. of Adhesion Science and Technology (Taylor

& Francis), 32 (2018) 2552-2568,  
<https://doi.org/10.1080/01694243.2018.1493021>.

**Impact Factor 2.431 (Q2)**

68. M. Shoeb, **M. Mobin\***, M. A. Rauf, M. Owais, and A. H. Naqvi, In vitro and in vivo antimicrobial evaluation of Graphene–Polyindole (Gr@PI<sub>n</sub>) nanocomposite against Methicillin-resistant Staphylococcus aureus pathogen, ACS Omega, 3 (8) (2018) 9431–9440, <https://doi.org/10.1021/acsomega.8b00326>.

**Impact Factor 4.3 (Q1)**

69. R. Aslam, **M. Mobin\***, S. Zehra, I. B. Obot and E. E. Ebenso, N,N'-dialkylcystine gemini and monomeric N-alkyl cysteine surfactants as corrosion inhibitors on mild steel corrosion in 1M HCl solution – a comparative study, ACS Omega, 2 (9), (2017) 5691–5707, <https://doi.org/10.1021/acsomega.7b00501>.

**Impact Factor 4.3 (Q1)**

70. **M. Mobin\***, Marzia Rizvi, L. O. Olasunkanmi and Eno E. Ebenso, Biopolymer from Tragacanth gum as green corrosion inhibitor for carbon steel in 1M HCl solution, ACS Omega, 2 (7), (2017) 3997–4008, <https://doi.org/10.1021/acsomega.7b00436>.

**Impact Factor 4.3 (Q1)**

71. **M. Mobin\*** and R. Aslam, Ester-based pyridinium gemini surfactants as novel inhibitors for mild steel corrosion in 1 M HCl solution, Tenside Surfactants Detergents, 54 (6), 486-499 (2017), <https://doi.org/10.3139/113.110527>.

**Impact Factor 1.049 (Q3)**

72. S. Zehra, **M. Mobin\***, J. Aslam and M. Parveen, Assessment of glycine derivative N-benzylidene-2((2-oxo-2-(10H-phenothiazine-10yl)ethyl)amino) acetohydrazide as inhibitor for mild steel corrosion in 1 M HCl solution: electrochemical and theoretical approach, J. of Adhesion Science and Technology (Taylor & Francis), 32(3), 317-334 (2017). <https://doi.org/10.1080/01694243.2017.1354669> .

**Impact Factor 2.431 (Q2)**

73. S. Masroor, **M. Mobin\***, M.J. Alam and S. Ahmad, The novel iminium surfactant p-benzylidene benzylidodecyl iminium chloride as a corrosion inhibitor for plain carbon steel in 1 M HCl: electrochemical and DFT evaluation, RSC Advances, 7 (2017) 23182-23196, <https://doi.org/10.1039/C6RA28426D>.

**Impact Factor 4.6 (Q1)**

74. **M. Mobin\***, R. Aslam and J. Aslam, Non-toxic biodegradable cationic gemini surfactants as novel corrosion inhibitor for mild steel in hydrochloric acid medium and synergistic effect of sodium salicylate: Experimental and theoretical approach, Materials Chemistry and Physics, (Elsevier), 191 (2017) 151-167. <https://doi.org/10.1016/j.matchemphys.2017.01.037>.

**Impact Factor 4.778 (Q1)**

75. **M. Mobin\***, M. Parveen and MZA Rafiquee, “Synergistic influence of sodium dodecyl sulfate and cetyltrimethyl ammonium bromide on the corrosion inhibition behavior of L-methionine on mild steel in acidic medium, Arabian Journal of

Chemistry (Elsevier), 10 (2017) S1364-S1372.  
<https://doi.org/10.1016/j.arabjc.2013.04.006> .

**Impact Factor 5.2 (Q1)**

76. **M. Mobin\*** and M. Rizvi, Polysaccharide from *Plantago* as a green corrosion inhibitor for carbon steel in 1M HCl, Carbohydrate Polymers (Elsevier), 160 (2017) 172-183, <https://doi.org/10.1016/j.carbpol.2016.12.056>.

**Impact Factor 12.5 (Q1)**

77. **M. Mobin\***, R. Aslam, S. Zahra and M. Ahmad, Bio-/environment friendly cationic gemini surfactant as novel corrosion inhibitor for mild steel in 1M HCl solution, J Surfact Deterg, 27(1) (2017) 57-74. <https://doi.org/10.1007/s11743-016-1904-x> .

**Impact Factor 1.902 (Q3)**

78. Z. Nasir, M. Shakir, R. Wahab, M. Shoeb, P. Alam, R.H. Khan, **M. Mobin**, Lutfullah, Co-precipitation synthesis and characterization of Co doped SnO<sub>2</sub> NPs, HSA interaction via various spectroscopic techniques and their antimicrobial and photocatalytic activities, International Journal of Biological Macromolecules (Elsevier), 94 (2017) 554-565, <https://doi.org/10.1016/j.ijbiomac.2016.10.057>.

**Impact Factor 8.5 (Q1)**

79. **M. Mobin\***, J. Aslam and R. Alam, Anti-corrosive properties of poly(Aniline-co-2,3-Xylidine)/ZnO nanocomposite coating on low-carbon steel, J. Adhesion Sci. and Tech., 31 (7) (2017) 749-769. <https://doi.org/10.1080/01694243.2016.1231395> .

**Impact Factor 2.431 (Q2)**

80. **M. Mobin\*** and M. Rizvi, Adsorption and corrosion inhibition behavior of hydroxyethyl cellulose and synergistic surfactants additives for carbon steel in 1M HCl, Carbohydrate Polymers (Elsevier), 156 (2017) 202–214, <https://doi.org/10.1016/j.carbpol.2016.08.066>.

**Impact Factor 12.5 (Q1)**

81. M. Parveen, **M. Mobin** and S. Zahra, Evaluation of l-tyrosine mixed with sodium dodecyl sulphate or cetyl pyridinium chloride as corrosion inhibitor for mild steel in 1M HCl: Experimental and theoretical studies, RSC Advances, 6 (2016) 61235-61248, <https://doi.org/10.1039/C6RA10010D>.

**Impact Factor 4.6 (Q1)**

82. R. Alam, **M. Mobin\*** and J. Aslam, Polypyrrole/graphene nanosheets/rare earth ions/dodecyl benzene sulfonic acid nanocomposite as a highly effective anticorrosive coating, Surface and Coatings Technology (Elsevier), 307, 382-391 (2016), <https://doi.org/10.1016/j.surfcoat.2016.09.010> .

**Impact Factor 6.1 (Q1)**

83. S. Masroor and **M. Mobin**, Application of surfactants as corrosion inhibitor for different metals and alloys: a review, International J. of Scientific and Engineering Research, 7(12) (2016) 575-585.

84. **M. Mobin\***, R. Alam and J. Aslam, Corrosion protection of poly(aniline-co-N-ethylaniline)/ZnO nanocomposite coating on mild steel, Arabian Journal for

Science and Engineering (Springer), 42(1) (2017) 209-224, <https://doi.org/10.1007/s13369-016-2234-z> .

**Impact Factor 2.9(Q1)**

85. *M. Mobin\**, R. Alam and J. Aslam, Investigation of the corrosion behavior of poly(aniline-co-o-anisidine)/ZnO nanocomposite coating on low carbon steel, Journal of Materials Engineering and Performance (Springer), 25 (7) 3017-3030 (2016), <https://doi.org/10.1007/s11665-016-2145-x> .

**Impact Factor 2.036 (Q2)**

86. *M. Mobin\** and S. Noori, Adsorption and corrosion inhibition behavior of zwitterionic gemini surfactant for mild steel in 0.5M HCl, Tenside Surf. Det. (Carl Hanser), 53, 4 (2016), <https://doi.org/10.3139/113.110442>.

**Impact Factor 1.902 (Q3)**

87. R. Alam, *M. Mobin\**, and J. Aslam, Investigation of anti-Corrosive properties of poly(aniline-co-2-pyridylamine-co-2, 3-xylidine) and its nanocomposite poly(aniline-co-2-pyridylamine-co-2, 3-xylidine)/ZnO on mild steel in 0.1 M HCl, Applied Surface Science (Elsevier), 368, 360-367 (2016), <https://doi.org/10.1016/j.apsusc.2016.02.034>.

**Impact Factor 6.9 (Q1)**

88. *M. Mobin\**, S. Zahra and M. Parveen, L-Cysteine as corrosion inhibitor for mild steel in 1M HCl and synergistic effect of anionic, cationic and non-ionic surfactants, J. Molecular Liquids (Elsevier), 216, 598-607 (2016), <https://doi.org/10.1016/j.molliq.2016.01.087>.

**Impact Factor 5.2 (Q1)**

89. *M. Mobin\** and S. Masroor, Experimental and theoretical study on corrosion inhibition of mild steel in 20% formic acid using Schiff base based cationic gemini surfactant, Tenside Surf. Det. (De Gruyter), 53 (2), 157-167 (2016), <https://doi.org/10.3139/113.110421>.

**Impact Factor 1.902 (Q3)**

90. *M. Mobin\** and M. Rizvi, The inhibitory effect of Xanthan gum and synergistic surfactant additives for mild steel corrosion in 1M HCl, Carbohydrate Polymers (Elsevier), 136, 384-393 (2016). <https://doi.org/10.1016/j.carbpol.2015.09.027> .

**Impact Factor 12.5 (Q1)**

91. *M. Mobin\** and S. Zahra and R. Aslam, L-Phenylalanine methyl ester hydrochloride as green corrosion inhibitor for mild steel in hydrochloric acid solution and effect of surfactant additive, RSC Advances, 6, 5890-5902 (2016), <https://doi.org/10.1039/C5RA24630J>.

**Impact Factor 4.6 (Q1)**

92. N. Iqbal, *M. Mobin*, M.Z.A. Rafiquee and Hamad A. Al-Lohedan," Removal of Cu<sup>2+</sup> and Pb<sup>2+</sup> ions by surfactant based cationic exchanger using cetylpyridinium chloride-cerium(IV) phosphate, Desalination and Water Treatment (Elsevier) 57 (42) 19917-19926 (2016). <https://doi.org/10.1080/19443994.2015.1109556> .

**Impact Factor 1.23(Q3)**

93. **M. Mobin\*** and J. Aslam and H. A. Al-Lohedan, Study on the inhibition of mild steel corrosion by cationic gemini surfactant in 1m HCl, Journal of Dispersion Science and Tech (Taylor & Francis), 37 (2016) 1002-1009. <https://doi.org/10.1080/01932691.2015.1018425> .

**Impact Factor 2.262 (Q3)**

94. M. Shoeb, B.R. Singh, **M. Mobin**, G. Afreen, W. Khan and A.H. Naqvi, Kinetic study on mutagenic chemical degradation through three pot synthesized graphene @ ZnO nanocomposite, PLoS ONE, 10(8):e0135055 (2015), <https://doi.org/10.1371/journal.pone.0135055> .

**Impact Factor 2.776 (Q1)**

95. **M. Mobin\*** and S. Masroor, Adsorption and corrosion inhibition behavior of Schiff base-based cationic gemini surfactant on mild steel in formic acid, Journal of Dispersion Science and Tech (Taylor & Francis), 35 (4), 535-543 (2014), <https://doi.org/10.1080/01932691.2013.799435>.

**Impact Factor 2.262 (Q3)**

96. **M. Mobin\*** and M. Alam Khan, "Adsorption and corrosion inhibition behavior of polyethylene glycol and surfactants additives on mild steel in H<sub>2</sub>SO<sub>4</sub>", Journal of Materials Engineering and Performance (Springer), 23, 222-229 (2014), <https://doi.org/10.1007/s11665-013-0767-9> .

**Impact Factor 2.036 (Q2)**

97. **M. Mobin\***, M. Parveen, "Adsorption and corrosion inhibition behavior of L-cystine and synergistic surfactants additives on mild steel in 0.1 M H<sub>2</sub>SO<sub>4</sub>" Journal of Dispersion Science and Tech (Taylor & Francis), 35(1) 29-37 (2014), <https://doi.org/10.1080/01932691.2013.773443>.

**Impact Factor 2.262(Q3)**

98. M. Parveen and **M. Mobin\***, "Novel corrosion inhibiting formulations involving amino acids and surfactants for mild steel in acid medium", International J. of Scientific and Engineering Research, 4, 167-175 (2013).

99. A.U. Malik, Saleh A. Al-Fozan, **M. Mobin** and M. Al- Hajri, "Studies on the failure of economizer tubes involving acid dew-point corrosion in high pressure boilers", International J. of Scientific and Engineering Research, 4 (9), 1726-1736 (2013).

100. **M. Mobin\*** and A.U. Malik, "Root Cause Failure Analysis of a Boiler Feed Pump Main Oil Pump Gear", MP, NACE International, 52(2), 52-55 (2013).

**Impact Factor 0.13 (Q4)**

101. **M. Mobin\*** and M. Alam Khan, "Investigation on the adsorption and corrosion inhibition behavior of gum acacia and synergistic surfactants additives on mild steel in 0. 1M H<sub>2</sub>SO<sub>4</sub>", Journal of Dispersion Science and Tech (Taylor & Francis), 34 (11) 1496-1506 (2013), <https://doi.org/10.1080/01932691.2012.751031>.

**Impact Factor 2.262(Q3)**

102. **M. Mobin\*** and Hina Shabnam, "Studies on the Effect of Zn ions on the Corrosion Behavior of Mild Steel and SS 304L under Desalination and Power Plant Conditions", Desalination and Water Treatment (Elsevier) **51**, 3389-3397 (2013), <https://doi.org/10.1080/19443994.2012.749193>.

**Impact Factor 1.23(Q3)**

103. **M. Mobin\*** & M. Alam Khan, "Synergistic Influence of Polyvinyl Alcohol and Surfactants on the Corrosion Inhibition of Mild Steel in 0.1M H<sub>2</sub>SO<sub>4</sub>", Chemical Engg, Communication (Taylor & Francis), 200 (9) 1149-1169 (2013), <https://doi.org/10.1080/00986445.2012.737384>.

**Impact Factor 2.494 (Q2)**

104. **M. Mobin\*** & S. Mashkoo, "Alkanediyl- $\alpha$ ,  $\omega$ - bis (dimethyl cetylammonium bromide) gemini surfactants as novel corrosion inhibitors for mild steel in formic acid" Materials Research, 15 (6), 837-848 (2012), <https://doi.org/10.1590/S1516-14392012005000112>.

**Impact Factor 1.898 (Q3)**

105. **M. Mobin\*** & S. Mashkoo, "Cationic Gemini Surfactants as Novel Corrosion Inhibitor for Mild Steel in 1M HCl" International J. of Electrochemical Science (ESG), 7, 6920-6940 (2012), <http://www.electrochemsci.org/papers/vol7/7086920.pdf> .**Impact Factor 1.765 (Q3)**

106. **M. Mobin\***, M. Parveen and M.Z.A. Rafiquee, "Inhibition of Mild Steel Corrosion Using L-Histidine and Synergistic Surfactants Additives" Journal of Materials Engineering and Performance (Springer), 22 (2), 548-556 (2013), <https://doi.org/10.1007/s11665-012-0262-8>.

**Impact Factor 2.036 (Q2)**

107. Nazia Iqbal, **M. Mobin**, M.Z.A. Rafiquee and H. A. Al-Lohedan, Removal of Cu<sup>2+</sup>, Cd<sup>2+</sup>, Pb<sup>2+</sup> and Hg<sup>2+</sup> ions by the synthesized sodium dodecylbenzene sulphonate-tin (IV) phosphate (SDBS-SnP) cation exchanger", Desalination and Water Treatment (Elsevier) 51 (34-36), 6688-6697 (2013), <https://doi.org/10.1080/19443994.2013.765809>.

**Impact Factor 1.254 (Q3)**

108. N. Tanveer & **M. Mobin\***, "Anti-corrosive properties of poly (2-pyridylamine-co-aniline-co-2, 3-xylidine) terpolymer coating on mild steel in different corrosive environments", Prog. Org. Coat. (Elsevier), 75 (3), 231-240 (2012), <https://doi.org/10.1016/j.porgcoat.2012.05.002>.

**Impact Factor 7.3 (Q1)**

109. **M. Mobin\*** & N. Tanveer, "Corrosion performance of chemically synthesized poly (aniline-co-o-toluidine) copolymer coating on mild steel" J. of Coatings Technology and Research (Springer), 9 (1), 27-38 (2012), <https://doi.org/10.1007/s11998-011-9328-z>.

**Impact Factor 2.8 (Q2)**

110. **M. Mobin\*** & S.K.Hasan, "Chemical interaction of ferric oxide and sodium sulfate at high temperature relevant to hot corrosion" J. Mater. Environ. Sci., 3(1), 109-116 (2012), <https://www.jmaterenvironsci.com/Document/vol3/11-JMES-127-2011-Mobin.pdf>.

**Impact Factor 0.76 (Q3)**

111. **M. Mobin\***, A. U. Malik, F. Al-Muaili, and M. Al-Hajri, "Performance evaluation of a commercial polyurethane coating in marine environment" Journal of

Materials Engineering and Performance (Springer), **21(7)**, 1292-1299 (2012), DOI:[10.1007/s11665-011-0034-x](https://doi.org/10.1007/s11665-011-0034-x).

**Impact Factor 2.036 (Q2)**

112. **M. Mobin\*** & N. Tanveer, "Corrosion performance of chemically polymerized poly(pyrrole-co-o-toluidine) coating on mild steel" Prot Met Phys Chem Surf (Springer), **48** (2), 243-250 (2012), <https://doi.org/10.1134/S207020511202013X>.

**Impact Factor 1.27 (Q3)**

113. N. Iqbal, **M. Mobin**, M.Z.A. Rafiquee and H. A. Al-Lohedan, "Characterization and adsorption behaviour of newly synthesized sodium bis(2-ethylhexyl) sulfosuccinate-cerium (IV) phosphate (AOT-CeP) cation exchanger" Chemical Engineering Research and Design (Elsevier), **90**, 2364-2371 (2012), <https://doi.org/10.1016/j.cherd.2012.06.006>.

**Impact Factor 4.119 (Q2)**

114. **M. Mobin\***, M. Parveen & M. A. Khan, "Inhibition of mild steel corrosion using L-tryptophan and synergistic surfactants additives, Portugaliae Electrochimica Acta, **29 (6)**, 391-403 (2011), DOI:[10.4152/pea.201106391](https://doi.org/10.4152/pea.201106391).

**Impact Factor 1.48 (Q4)**

115. **M. Mobin\*** & H. Shabnam, "Corrosion behavior of mild steel and SS 304L in presence of dissolved Nickel under aerated and de-aerated conditions", Materials Research, **14(4)**, 1-8 (2011), <https://doi.org/10.1590/S1516-14392011005000076>.

**Impact Factor 1.898 (Q3)**

116. **M. Mobin**, M. A. Khan & M. Parveen, "Inhibition of mild steel corrosion in acidic medium using starch and surfactants additives" J. of Applied Polymer Science (John Wiley), **121**, 1558-1565 (2011), <https://doi.org/10.1002/app.33714>.

**Impact Factor 3.125(Q2)**

117. **M. Mobin\*** & N. Tanveer, "Corrosion behavior of chemically deposited single and Bi-layered conducting polymer coatings on mild steel" Portugaliae Electrochimica Acta, **29 (3)**, 139-154 (2011), DOI:[10.4152/pea.201103139](https://doi.org/10.4152/pea.201103139).

**Impact Factor 1.48(Q4)**

118. **M. Mobin\*** & N. Tanveer, "Corrosion protection of carbon steel by poly(aniline-co-toluidine and poly(pyrrole-co-o-toluidine) copolymer coatings" Journal of Minerals and Materials Characterization and Engineering (USA), **10 (8)**, 735-753 (2011), DOI:[10.4236/jmmce.2011.108058](https://doi.org/10.4236/jmmce.2011.108058).

**Impact Factor 1.32**

119. **M. Mobin\*** & A. U. Malik, "Caustic Corrosion Failure of Back Wall Riser Tube in a High- Pressure Boiler" J. Failure Analysis and Prevention (Springer), **11**, 357-362 (2011), <https://doi.org/10.31399/asm.fach.v03.c9001826>.

**Impact Factor 0.926 (Q3)**

120. S.K. Hasan & **M. Mobin**, "High temperature interaction of NiO with sodium sulphate in SO<sub>2</sub> environment at 1100 and 1200 K, Portugaliae Electrochimica Acta, **29 (3)**, 187-196 (2011), DOI:[10.4152/pea.201103187](https://doi.org/10.4152/pea.201103187).

**Impact Factor 1.48 (Q4)**

- N. Iqbal, **M. Mobin** & M.Z.A. Rafiquee, "Synthesis and characterization of sodium bis(2-ethylhexyl) sulfonsuccinate based tin (IV) phosphate cation exchanger; selective for Cd<sup>2+</sup>, Zn<sup>2+</sup> and Hg<sup>2+</sup> ions" Chemical Engineering Journal (Elsevier), 169 (1-3), 43-49 (2011), <https://doi.org/10.1016/j.cej.2011.02.048> Get rights and content.

**Impact Factor 13.2 (Q1)**

121. **M. Mobin\*** & Hina Shabnam, "Corrosion behavior of mild steel and SS 304L in presence of dissolved copper" Journal of Minerals and Materials Characterization and Engineering (USA), **9 (12)**, 1113-11130 (2010), [https://www.scirp.org/pdf/jmmce20101200006\\_10350281.pdf](https://www.scirp.org/pdf/jmmce20101200006_10350281.pdf) .

**Impact Factor 1.32**

122. **M. Mobin\***, "Investigations on the suitability of coated steel piping system for high pressure seawater reverse osmosis application" Journal of Materials Engineering and Performance (Springer), **19 (2)**, 257-263 (2010), <https://doi.org/10.1007/s11665-009-9444-4> .

**Impact Factor 2.036 (Q2)**

123. A.U. Malik, I. Andijani, **M. Mobin**, S. Al-Fozan, F. Al-Muaili and M. Al-Hajri," An overview of the localized corrosion problems in seawater desalination plants- some recent case studies" Desalination and Water Treatment (Elsevier), **20**, 22-34 (2010), <https://doi.org/10.5004/dwt.2010.1479>.

**Impact Factor 1.23(Q3)**

124. **M. Mobin\***, A. U. Malik, and F. Al-Muaili, "Stress Corrosion Cracking and Oil Leakage in a Control Oil Piping System" J. Failure Analysis and Prevention (Springer), **9(5)**, 409-413 (2009), <https://doi.org/10.1007/s11668-009-9279-1> .

**Impact Factor 0.926(Q3)**

125. **M. Mobin\***, "Electrochemical studies on the corrosion behavior of carbon steel in presence of Cu and Ni" Portugaliae Electrochimica Acta (Portugal), **26** (No. 5), 449-557 (2008), <https://doi.org/10.4152/pea.200805449>.

**Impact Factor 1.483(Q4)**

126. **M. Mobin\***, A. U. Malik, I. N. Andijani and Fahd Al-Muaili, "Failure Analysis of a Turbine Main Oil Pump Driven Gear" Materials Performance, NACE International, **9**, 72-75 (2008).

**Impact Factor 0.308(Q3)**

127. **M. Mobin\*** & S.K. Hasan, "Studies on high temperature corrosion reactions involving metal oxides and sodium sulfate", Anti-Corrosion Methods and Materials (Emerald), **55 (3)**, 123-129 (2008), <https://doi.org/10.1108/00035590810870428>.

**Impact Factor 1.043(Q2)**

128. **M. Mobin\***, A. U. Malik, I.N. Andijani, F. Al-Muaili, M. Al-Hajri, G. Ozair and N.M. K. Mohammad, "Performance evaluation of some fusion bonded epoxy coatings under water transmission line conditions", Progress in Organic Coatings (Elsevier), **64(4)**, 369-375 (2008), <https://doi.org/10.1016/j.porgcoat.2008.02.002>.

**Impact Factor 7.3(Q1)**

129. **M. Mobin\***, A.U. Malik & M. Al-Hajri, "Investigations on the failure of economizer tubes in a high pressure boiler" J. Failure Analysis and Prevention (Springer), **8(1)**, 69-74 (2008), <https://doi.org/10.1007/s11668-007-9094-5> .  
**Impact Factor 0.926(Q3)**
130. **M. Mobin\***, A. U. Malik, & I. N. Andijani, "The Effect of heavy metal ions on the localized corrosion behavior of steels" Desalination (Elsevier), **217**, 233-241 (2007), <https://doi.org/10.1016/j.desal.2007.03.005>.  
**Impact Factor 9.8(Q1)**
131. **M. Mobin\***, A. U. Malik, Saleh Al-Fozan & F. Al-Muaili, "Corrosion failure of the bottom plates of an aboveground storage tank", J. Failure Analysis and Prevention (Springer), **7(1)**, 18-22 (2007), <https://doi.org/10.1007/s11668-006-9010-4> .  
**Impact Factor 0.926(Q3)**
132. A.U. Malik, **M. Mobin**, I. N. Andijani, S. Al-Fozan and A. Al-Hamed, "Investigations on the corrosion of flash chamber floor plates in a multistage flash desalination plant" J. Failure Analysis and Prevention (Springer), **6(6)**, 19-24 (2006), <https://doi.org/10.1361/154770206X156222> .  
**Impact Factor 0.926(Q3)**
133. **M. Mobin\***, A.U. Malik, I.N. Andijani, F. Al-Muaili & M. Al-Hajri, "Premature water side corrosion of furnace wall tubes in a high pressure pump", Materials Performance, NACE International, **9**, 44-49 (2006).  
**Impact Factor 0.308(Q3)**
134. A.U. Malik, I.N. Andijani, **M. Mobin** & S. Ahmad, "Corrosion behavior of materials in RO water containing 250-350 ppm chloride, Desalination (Elsevier), **196**, 149-159 (2006), <https://doi.org/10.1016/j.desal.2005.12.010>.  
**Impact Factor 11.211(Q1)**
135. **M. Mobin**, A.U. Malik, F. Al-Muaili & M. Al-Hajri, "Investigations of the failure of a high pressure Pump motor bearing oil cooler ", Materials Performance, NACE International, **8**, 50-54 (2005).  
**Impact Factor 0.308(Q4)**
136. A.U. Malik, I.N. Andijani, **M. Mobin**, F. Al-Muaili, & M. Al-Hajri, "Investigating weld leaks at Medina-Yanbu RO plant", IDA Journal of Desalination & Water Reuse (Taylor & Francis), **14 (4)**, 22-26 (2005).
137. **M. Mobin\*** & A.U. Malik, "Case study-Premature failure of repainted epoxy on the internal bottom plate of a fuel oil tank", Materials Performance, NACE International, **2**, 28-31 (2005).  
**Impact Factor 0.308(Q4)**
138. **M. Mobin\***, A.U. Malik, I.N. Andijani, F. Al-Muaili & M. Al-Hajri "Failure of micron cartridge filter components in a seawater reverse osmosis plant", Materials Performance, NACE International, **12**, 52-56 (2004).  
**Impact Factor 0.308(Q4)**
139. **M. Mobin\***, H.K. Sharma & S.K. Hasan, "High temperature oxidation behavior of CeO<sub>2</sub> and La<sub>2</sub>O<sub>3</sub> modified aluminide coatings on carbon steel", Anti-Corrosion

Methods and Materials (Emerald), **49 (4)**, 283-294 (2002), <https://doi.org/10.1108/00035590210439757>.

**Impact Factor 1.043(Q2)**

140. **M. Mobin\***, "High temperature interactions of metal oxides and carbides with ionic salts", Science and Engineering of Composite Materials (De Gruyter), **8 (5)**, 257 (1999), <https://doi.org/10.1515/SECM.1999.8.5.257>.

**Impact Factor 1.295(Q3)**

141. **M. Mobin\***, S.K. Hasan, M. Ajmal & A.U. Malik, "Hot corrosion behavior of aluminide coatings on mild steel with and without rare-earth oxide addition", Coatings and Composite Materials (Italy), **22**, 1 (1998).

142. **M. Mobin\*** & A.U. Malik, "Studies on the interactions of trans. metal oxides and sod. Sulfate in the temperature range of 900-1200 K in oxygen", J. of Alloys and Compounds (Elsevier), **235**, 97-103 (1996), [https://doi.org/10.1016/0925-8388\(95\)02125-6](https://doi.org/10.1016/0925-8388(95)02125-6).

**Impact Factor 6.371(Q1)**

143. **M. Mobin\*** & A.U. Malik, "Studies on interactions of trans. metal carbides and sod. Chloride in the temperature range of 900-1200 K in oxygen", J. of Alloys and Compounds (Elsevier), **186**, 1-14 (1992), [https://doi.org/10.1016/0925-8388\(92\)90615-G](https://doi.org/10.1016/0925-8388(92)90615-G).

**Impact Factor 6.3(Q1)**

144. **M. Mobin\*** & A.U. Malik, "High temperature interactions of trans. metal carbides with Na<sub>2</sub>SO<sub>4</sub>", J. less Common Met. (Elsevier), **170**, 243-254 (1991), [https://doi.org/10.1016/0022-5088\(91\)90325-X](https://doi.org/10.1016/0022-5088(91)90325-X).

**Impact Factor 6.3(Q1)**

145. **M. Mobin\***, A.U. Malik & S. Ahmad, "High temperature interactions of metal oxides with NaCl", J. less Common Met. (Elsevier), **160**, 1-14 (1990), [https://doi.org/10.1016/0022-5088\(90\)90103-Q](https://doi.org/10.1016/0022-5088(90)90103-Q).

**Impact Factor 6.3(Q1)**

146. A.U. Malik & **M. Mobin**, "Studies on some solid-state reactions relevant to hot corrosion", Key Engineering Materials (Trans Tech), **20-28**, 3345-3365 (1987).

**Impact Factor 0.45**

### Papers Published in Indian Journals

147. N. Tanveer and **M. Mobin**, Corrosion performance evaluation of chemically synthesized polyaniline and its Co- and Ter-polymer coatings on mild steel in different media, Chem Sci Rev Lett, 3(11s), 14-32 (2014), [https://chesci.com/wp-content/uploads/2016/12/V3i11S\\_2\\_CS07204406.pdf](https://chesci.com/wp-content/uploads/2016/12/V3i11S_2_CS07204406.pdf).

**Scientific Journal Impact Factor 6.748**

148. Sheerin Masroor and **M. Mobin**, Non-ionic surfactant as corrosion inhibitor for aluminium in 1 M HCl and synergistic influence of gemini surfactant, Chem Sci Rev Lett, 3(11s), 33-48 (2014).

149. **M. Mobin\***, Mosarrat Parveen and M. Alam Khan, "Inhibition of mild steel corrosion in HCl solution using amino acid L-tryptophan", Recent Research in Science and Technology, 3 (12), 40-45 (2011).
150. N. Ahmad, A.U. Malik & **M. Mobin**, "Emeraldine base conducting polymer coatings for protection of steels against corrosion" J. Indian Chem. Soc, **84**, 1-7 (2007), <https://api.semanticscholar.org/CorpusID:99516617>  
**Impact Factor 0.45**
151. A.U. Malik, Shahreer Ahmad, **M. Mobin**, & N.A. Siddiqui," High temperature oxidation of trans. metal carbide-containing iron matrices in high and low oxygen environments", Trans. Indian Inst. Met. (Springer), **54**, 79-87 (2001).  
**Impact Factor 1.6(Q2)**
152. **M. Mobin\*** & A.U. Malik, "Hot corrosion reactions involving trans. metal carbide- containing substrate", J. Chemical & Environmental Research, **8 (1&2)**, 85-97 (1999).
153. **M. Mobin\***, S.K. Hasan & M. Ajmal, "Hot corrosion behavior of aluminide and rare-earth containing aluminide coatings on mild steel", J. Chemical & Environmental Research, **8 (1&2)**, 99-110 (1999).
154. **M. Mobin\***, A.U. Malik, S. Ahmad, S.K. Hasan & M. Ajmal," Studies on interactions of metal oxides with Na<sub>2</sub>SO<sub>4</sub>", Bulletin of Material Science (Springer), **9**, 807-821 (1996), <https://doi.org/10.1007/BF02745201> .  
**Impact Factor 1.878(Q2)**

### Papers in Foreign Conference Proceedings

155. M. Parveen and **M. Mobin**, L-tryptophanium picrate as novel and green corrosion inhibitors of carbon steel in 5%HCl, III International conference on global practice of multidisciplinary scientific studies held on November 15-17, 2022, Turkish Republic of Northern Cyprus.
156. K. Cial and **M. Mobin**, The effect of cationic cleavable surfactant for the corrosion inhibition behavior of mild steel In 5% HCl solution, III International conference on global practice of multidisciplinary scientific studies held on November 15-17, 2022, Turkish Republic of Northern Cyprus.
157. M. Shoeb, **M. Mobin** and A. H. Naqvi, Strong interfacial polarization in graphene/ZnO nanocomposite for high-performance miniscule permittivity materials, AIP Conference Proceedings, 1953 (2018) 030043; <https://doi.org/10.1063/1.5032378>.
158. B. Varshney, M. Shoeb, M. J. Siddiqui, A. Azam, and **M. Mobin**, Azadirachta indica (neem) leaves mediated synthesis of SnO<sub>2</sub>/NiO nanocomposite and assessment of its photocatalytic activity, AIP Conference Proceedings, 1953 (2018) 030140; <https://doi.org/10.1063/1.5032475>.
159. **M. Mobin** & S. Noori, Zwitterionic gemini surfactant as efficient corrosion inhibitor for mild steel in 0.5 M HCl, Proceedings, 19<sup>th</sup> International Corrosion Congress, Jeju, Republic of Korea, Nov. 2-6, 2014.

160. S.K. Hasan & **M. Mobin**, "Hot corrosion behavior of protective oxide scales with sodium chloride in chlorine gas environment", Proceedings, NACE Corrosion 2013, Paper No. 2125, 1440 South Creek Drive, Houston, Texas-77084, USA.
161. A.U. Malik, **M. Mobin**, F. Al-Muaili & S. Al-Fozan, "Corrosion behavior of duplex stainless steels in Arabian seawater" Proceedings, NACE Corrosion 2011, Paper No. 11171, 1440 South Creek Drive, Houston, Texas-77084, USA.
162. **M. Mobin**, A.U. Malik & I.N. Andijani, "Role of heavy metal carryover in the failure of steel components in desalination and power plants", Proc. IDA World Congress on Desalination and Water Reuse, Singapore, 4C, 143 (2005).
163. A.U. Malik, I. N. Andijani, **M. Mobin**, F. Al-Muaili, & M. Al-Hajri, "Corrosion of boiler tubes-some case studies", Proc. 4<sup>th</sup> Gained Experience Symposium", Jeddah, 739-763 (2005).
164. **M. Mobin**, A.U. Malik & I.N. Andijani, "A novel inhibitor-acid combination for cleaning of desal units in MSF desalination plants", Proc. Seminar on "Boiler Water Treatment", Saudi Aramco, Dhahran, Saudi Arabia, Nov. 29, 2004.
165. **M. Mobin** & A.U. Malik," Studies on the high temperature interactions of metal oxides and carbides with Sod. Sulfate and Sod. Chloride", Abstract, 13<sup>th</sup> International Corrosion Congress, 25-29 Nov. 1996, Clayton, Australia.
166. A.U. Malik, N.A. Siddiqui, S. Ahmad & **M. Mobin**," High temperature oxidation of iron base alloys in high and low oxygen potential environments", Abstract, 13<sup>th</sup> International Corrosion Congress, 25-29 Nov. 1996, Clayton, Australia.

### **Papers in National Conference Proceedings**

167. F. Ansar and **M. Mobin**, Synthesis and characterization of highly durable and anticorrosive coating of Polupyrrole-NiO-rGO nanocomposite for protection of low carbon steel steel in 3.5 weigh% NaCl solution, Proceeding, 28th International Conference & Expo on Corrosion, AMPP India chapter-CORCON 2022, Paper No. YSF 13, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
168. R. Aslam, **M. Mobin** and A. Aslam, Corrosion inhibition behaviour of L-Leucine methyl ester hydrochloride on mild steel in 5% HCl, Proceeding, 28th International Conference & Expo on Corrosion, AMPP India chapter-CORCON 2022, Paper No. YSF 22, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
169. I. Ahmad and **M. Mobin**, Biopolymer extracted from maca root extract evaluated as green and an efficient corrosion inhibitor for mild steel in 1M HCl, Proceeding, 28th International Conference & Expo on Corrosion, AMPP India chapter-CORCON 2022, Paper No. YSF 23, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
170. S. Zehra and **M. Mobin**, Development of stimuli-responsive nanocontainer based on halloysite/chitosan/pectin for smart anticorrosion epoxy coating, Proceeding, 28th International Conference & Expo on Corrosion, AMPP India chapter-CORCON 2022, Paper No. YSF 25, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.

171. Huda and **M. Mobin**, Exploration of surfactant-based ionic liquid as highly efficient corrosion inhibitor for mild steel in 1M HCl, Proceeding, 28th International Conference & Expo on Corrosion, AMPP India chapter-CORCON 2022, Paper No. YSF 27, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
172. **M. Mobin** and R. Aslam, Synthesis, characterization, and anti-corrosive application of biocompatible choline formate ionic liquid, Proceeding, NACE-NIGIS-CORCON 2021, Paper No. MCI 11, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
173. Irfan Ahmad and **M. Mobin**, Synthesis, characterization and application of Almond gum-silver nanocomposite as corrosion inhibitor for mild steel in 1 M HCl, Proceedings, International conference on advanced materials for better tomorrow (AMBT-2021), organized by IIT-BHU in association with SIRMB, July 13-17, 2021, P. 13.
174. Huda, **M. Mobin** and R. Aslam, Investigating the effect of graphene oxide functionalization with ionic liquid for corrosion inhibition of mild steel in acid solution, Proceeding, NACE-NIGIS-CORCON 2021, Paper No. CII 14, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
175. R. Aslam, **M. Mobin**, M. Parveen and M. Shoeb, Corrosion inhibition of mild steel using ZrO<sub>2</sub>-Gly nanocomposite in hydrochloric acid solution, Proceeding, NACE-NIGIS-CORCON 2021, Paper No. MCI 23, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
176. Megha Basik and **M. Mobin**, Studies on amino acid based Ag-Au nanocomposite as effective green corrosion inhibitor for mild steel in 1M HCl, Proceeding, NACE-NIGIS-CORCON 2019, Paper No. MCI 15, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
177. R. Aslam and **M. Mobin**, Dye-surfactant aggregates as corrosion inhibitor for mild steel HCl medium: experimental and theoretical studies, Proceeding, NACE-NIGIS-CORCON 2019, Paper No. MCI 23, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
178. Farina Ansar, **M. Mobin** and M. Shoeb, Graphene@Polyindole nanocomposite coating as promising anticorrosion coating for low carbon steel in 3.5% NaCl solution, Proceeding, NACE-NIGIS-CORCON 2019, Paper No. YSS16, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
179. Irfan Ahmad, **M. Mobin** and Megha Basik, Almond gum as novel green corrosion inhibitor for mild steel in 1 M HCl, Proceeding, NACE-NIGIS-CORCON 2019, Paper No. PP 2, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
180. Megha Basik and **M. Mobin**, Plant extract as novel environment friendly corrosion inhibitor for mild steel in 1M HCl solution, Proceeding, NACE-NIGIS-CORCON 2018, Paper No. MCI31, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
181. R. Aslam, **M. Mobin** and J. Aslam, Inhibitory effect of polymer and synergistic gemini surfactant additive for mild steel, Proceeding, NACE-NIGIS-CORCON 2018, Paper No. MCI25, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.

182. **M. Mobin** and Megha Basik, Cissus quadrangularis-zirconium acetate complex as novel green corrosion inhibitor for mild steel in 1M HCl solution, Proceeding, 19<sup>th</sup> National conference on corrosion control, organized by National Corrosion Council of India (NCCI), held at Bhubaneswar, December, 05-07, 2018.
183. M. Shoeb, **M. Mobin** and A.H. Naqvi, Preparation and characterization of graphene based Ag<sub>2</sub>O nanoparticle decorated polyindole polymer nanocomposite (Gr@PIIn/Ag<sub>2</sub>O) as antibacterial agent, National conference on recent advances in chemical sciences, Department of Chemistry, A.M.U. Aligarh, March 25-26, 2017, p.74.
184. M. Rizvi and **M. Mobin**, Arabinogalactan as green inhibitor for carbon steel corrosion in 1 M HCl, Proceeding, NACE-NIGIS-CORCON 2017, Paper No. SS 13, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
185. M. Shoeb, **M. Mobin** and A.H. Naqvi, A new ultrafast eco-friendly strategy to synthesize graphene oxide, International conference on nano technology (Aligarh Nano-V) and STEM-education and research (STEM CON-16), March 12-15, 2016.
186. **M. Mobin**, J. Aslam and R. Alam, Corrosion Protection Performance of Poly(aniline-co-o-anisidine) and Poly(aniline-co-o-anisidine)/ZnO Nanocomposite Coatings on Mild Steel, Proceeding, NACE-NIGIS-CORCON 2015, Paper No. 13MIC14, 305A, Hiranandani Gardens, Powai, Mumbai.
187. **M. Mobin**, Surfactants as corrosion inhibitors, Proceeding, NACE-NIGIS-CORCON 2014, Paper No. 13MIC14, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
188. **M. Mobin** and M. Parveen, Corrosion inhibition behavior of some amino acids in acidic medium and effect of synergistic surfactant additives, Proceeding, NACE-NIGIS-CORCON 2013, Paper No. 13MIC14, 305A, Galleria Hiranandani Gardens, Powai, Mumbai.
189. **M. Mobin** and M. Parveen, "Adsorption and corrosion inhibition behavior of S-containing amino acids on mild steel in acidic medium" International Conference on Chemistry: Frontiers and Challenges, held at Aligarh Muslim University, Aligarh, India, March 2-3, 2013.
190. **M. Mobin** and M. Alam Khan, "Effect of surfactants on the corrosion inhibition behavior of polyethylene glycol on mild steel in 0. 1M H<sub>2</sub>SO<sub>4</sub>" International Conference on Chemistry: Frontiers and Challenges, held at Aligarh Muslim University, Aligarh, India, March 2-3, 2013.
191. **M. Mobin**, A.U. Malik, F. Al-Muaili and M. Al-Hajri, "Performance evaluation of a commercial polyurethane coating in marine environment, NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2011 held at Mumbai, India, September 28-October 01, 2011.
192. **M. Mobin**, A. U. Malik, and Fahd Al-Muaili," Investigations on the corrosion failure of boiler tube in a high-pressure boiler" Proceeding, 14<sup>th</sup> National congress on corrosion control, organized by National Corrosion Council of India (NCCI), held at Hyderabad, September 18-20, 2008.

193. **M. Mobin**, A.U. Malik & M. Ajmal "High temperature interactions of metal carbides with Na<sub>2</sub>SO<sub>4</sub>", National Seminar on Corrosion, Ranchi, 1-8 (1989).
194. A.U. Malik & **M. Mobin**, "Studies on some solid-state reactions relevant to hot corrosion", Proc. 10<sup>th</sup> International congress on metallic Corrosion, organized by Central Electrochemical Research Institute, Karaikudi, India, on behalf of International Corrosion Council, held at Madras, India, November 7-11, 1987.
195. A.U. Malik, **M. Mobin** & S. Ahmad, "High temperature reactions of Na<sub>2</sub>SO<sub>4</sub> and metallic oxides relevant to hot corrosion", Proc. International Conference on Corrosion Sci. and Tech., Calcutta, 342 (1985).

#### BOOK EDITED/AUTHORED: 06

1. Book entitled, "Advancements in Bio-Surfactant Research" (Springer) (2023) Editors, R. Aslam, **M. Mobin**, J. Aslam and S. Zehra, ISBN-13: 97-83031216817, <https://doi.org/10.1007/978-3-031-21682-4> .
2. Book entitled, "Biopolymers in Sustainable Corrosion Inhibition" (CRC) (2024), Editors, S. Zehra, **M. Mobin** and C. Verma, ISBN-13: 978-1032508603, <https://doi.org/10.1201/9781003400059> .
3. Book entitled, "Surfactants: Potential Corrosion Inhibitor for Metals (Scholar's Press) (2015) Editors, Sheerin Masroor, **M. Mobin**, ISBN-13 978-3639707359.
4. Book entitled, "An Overview of Plastic Waste Materials: The Sources, Separation and Management", (Mahi Publication) (2023), Authors, M. Arsalan, M. Parveen and M. Mobin, ISBN: 978-81-19492-12-1.
5. Book entitled, "Sustainable Food Waste Management: Anti-Corrosion Applications (Springer) (2024), Editors, R. Aslam, **M. Mobin**, and J. Aslam, ISBN: 978-981-97-1159-8, <https://doi.org/10.1007/978-981-97-1160-4>
6. Book entitled, "Industrial Corrosion: Fundamentals, Failure, Analysis and Prevention (John Wiley & Sons), Editors, S. Zehra, R. Aslam, **M. Mobin** and C. Verma, ISBN 978-1-394-30153-9 (2025).

#### GUEST EDITOR

Guest Editor of the special issue of the Journal "Frontiers in Chemistry" (Impact Factor 5.545) on the topic "Recent Progress in Corrosion Inhibitors Research" with Co-Editors Prof. Eno Ebenso and Dr. Saman Zahra.

#### BOOK CHAPTERS (40)

1. R. Aslam, **M. Mobin**, J. Aslam, Chapter 14- Ionic liquids as corrosion inhibitors, Book Title: Organic Corrosion inhibitors: Recent Advancements, Wiley, 315-342 (2021), ISBN1119794501, <https://doi.org/10.1002/9781119794516.ch14>
2. M. Basik, **M. Mobin**, Chapter 19- Synthetic Polymers as Corrosion Inhibitors, Book Title: Organic Corrosion Inhibitors: Recent Advancements, Wiley, 435-449 (2021), ISBN 1119794501, DOI. [org/10.1002/9781119794516.ch19](https://doi.org/10.1002/9781119794516.ch19).

3. S. Zehra, **M. Mobin**, R. Aslam, Chapter 11-Corrosion inhibitor for high temperature in oil and gas industry, Book Title: Sustainable Corrosion Inhibitors I: Fundamentals, Methodologies, and Industrial Applications, ACS Symposium Series; Vol 1403, American Chemical Society, 223-246 (2021), ISBN 9780841297906, DOI.org/10.1021/bk-2021-1403.ch011.
4. S. Zehra, **M. Mobin**, Chapter 12- Amino Acids and their Derivatives as Corrosion Inhibitors, Book Title: Organic Corrosion Inhibitors: Recent Advancements, Wiley, 255-285 (2021), ISBN1119794501, DOI: org/10.1002/9781119794516.ch12.
5. S. Zehra, R. Aslam, **M. Mobin**, Electrochemical Impedance Spectroscopy: A Useful Tool for Monitoring the Performance of Corrosion Inhibitors, Book Title: Recent Developments in Analytical Techniques for Corrosion Research, Springer, 91-117 (2022) ISBN 978-3-030-89101-5. DOI: 10.1007/978-3-030-89101-5\_5.
6. R. Aslam, **M. Mobin**, J. Aslam, Chapter 1- Nano-materials as corrosion inhibitors, Book title: Inorganic Anti-corrosive Materials (IAMs): Past, Present and Future perspectives, Elsevier, 3-16 (2022), ISBN 9780323904117, DOI: 10.1016/b978-0-323-90410-0.0014-3.
7. S. Zehra, **M. Mobin**, J. Aslam, Chapter 13- Chromates as Corrosion Inhibitors, Book Title: Inorganic Anti-corrosive Materials (IAMs): Past, Present and Future Perspective. Elsevier, 251-268 (2022), ISBN 9780323904117, DOI: org/10.1016/B978-0-323-90410-0.00014-3.
8. M. Basik, **M. Mobin**, Chapter 17-Metal oxide and organic polymers mixed composites as corrosion inhibitors, Book title: Inorganic Anti-corrosive Materials (IAMs): Past, Present and Future perspectives, Elsevier, 345-355 (2022), ISBN 9780323904117, DOI: org/10.1016/B978-0-323-90410-0.00018-0
9. S. Zehra, **M. Mobin**, J. Aslam, Chapter 1- An overview of the Corrosion Chemistry, Book Title: Environmentally Sustainable Corrosion Inhibitors. Fundamentals and Industrial Applications, Elsevier, 3-23 (2022) ISBN 978-0-323-85405-4, DOI.org/10.1016/B978-0-323-85405-4.00012-4.
10. S. Zehra, **M. Mobin**, R. Aslam, Chapter 3- Corrosion Inhibitors: An Introduction, Book Title: Environmentally Sustainable Corrosion Inhibitors. Fundamentals and Industrial Applications, Elsevier, 47-67 (2022), ISBN 978-0-323-85405-4, DOI.org/10.1016/B978-0-323-85405-4.00022-7.
11. R. Aslam, **M. Mobin**, A. Aslam, S. Zehra, J. Aslam, Chapter 7- Corrosion inhibitors for neutral environment, Book Title: Environmentally Sustainable Corrosion Inhibitors. Fundamentals and Industrial Applications, Elsevier, 147-164 (2022) ISBN 978-0-323-85405-4, DOI.org/10.1016/B978-0-323-85405-4.00006-9.
12. R. Aslam, **M. Mobin**, J. Aslam, Chapter 19- Corrosion inhibitors for refinery industries, Book Title: Environmentally Sustainable Corrosion Inhibitors. Fundamentals and Industrial Applications, Elsevier, 385-404 (2022) ISBN 978-0-323-85405-4, DOI.org/10.1016/B978-0-323-85405-4.00004-5.
13. M. Basik, **M. Mobin**, Chapter 20- Environmentally sustainable corrosion inhibitors in oil and gas industry, Book Title: Environmentally Sustainable

- Corrosion Inhibitors. Fundamentals and Industrial Applications, Elsevier, 405-421(2022), ISBN 978-0-323-85405-4, DOI.org/10.1016/B978-0-323-85405-4.00017-3
14. R. Aslam, **M. Mobin**, J. Aslam, Chapter-9, Commercialization of environmentally sustainable corrosion inhibitors, Book Title: Corrosion mitigation-biomass and other natural products, De Gruyter, 175-188 (2022) ISBN 978-3-11-076057-6, DOI:10.1515/9783110760583-009.
  15. R. Aslam, **M. Mobin**, S. Zehra, C. Verma, J. Aslam, Chapter 8, Anti-corrosive applications of iron, copper and titanium oxides, Book Title: Anticorrosive Nanomaterials: Future perspectives, RSC (2022), ISBN: 978-1-83916-411-8, DOI.org/10.1039/9781839166259-00165.
  16. R. Aslam, **M. Mobin**, S. Zehra, J. Aslam, Chapter 3-Current applications of carbohydrate as green corrosion inhibitor for the oil and gas industry, Book Title: Polymeric Corrosion Inhibitors for Greening the Chemical and Petrochemical Industry, Wiley-VCH GmbH, 55-77 (2022) ISBN 9783527349920, DOI.org/10.1002/9783527835621.ch3.
  17. R. Aslam, **M. Mobin**, J. Aslam, S. Zehra, Chapter 15-Pharmaceutical drugs protecting metals in aggressive environments, Book Title: Eco-friendly Corrosion Inhibitors: Principles, Designing and Application, Elsevier, 229-262 (2022), DOI.org/10.1016/B978-0-323-91176-4.00006-4, ISBN 9780323911764.
  18. S. Zehra, **M. Mobin**, R. Aslam, Chapter 2-Corrosion Prevention and Protection Methods, Book Title: Eco-friendly Corrosion Inhibitors: Principles, Designing and Application, Elsevier, 13-26 (2022) ISBN 9780323911764, DOI.org/10.1016/B978-0-323-91176-4.00023-4.
  19. **M. Mobin**, R. Aslam, S. Zehra, J. Aslam and S. I. Bhat, Chapter 11- Application of Functionalized Carbon Nanotubes in Biomimetic/Bioinspired Systems, Book Title: Functionalized Carbon Nanotubes for Biomedical Applications (Current & Emerging Research Developments), WILEY-VCH GmbH, 257–279 (2023), <https://doi.org/10.1002/9781119905080.ch11>
  20. R. Aslam, **M. Mobin**, S. Zehra, A. Aslam, J. Aslam, Chapter 12- Anticorrosive application of organotin, SnO<sub>2</sub>, and TiO<sub>2</sub>-based nanocomposites, Book title: Functionalized nanomaterials corrosion mitigation: Synthesis, characterization and application (American Chemical Society), 255-269 (2022), eISBN 9780841297586, DOI:10.1021/bk-2022-1418ch012.
  21. R. Aslam, **M. Mobin**, S. Zehra, J. Aslam, Chapter 1. Bio-surfactants: Types, Sources, and Production, Book title: Advancements in Bio-surfactants Research, (Springer-Nature), 03-24 (2023), ISBN978-3-031-21681-7, DOI: 10.1007/978-3-031-21682-4\_1.
  22. S. Zehra, **M. Mobin**, R. Aslam, Chapter 9. Applications of Bio-surfactants as Anti-Corrosive Agents, Book title: Advancements in Bio-surfactants Research (Springer-Nature), 171-189 (2023), ISBN978-3-031-21681-7, DOI: 10.1007/978-3-031-21682-4\_9.
  23. S. I. Bhat, **M. Mobin**, S. Islam, M. Irfan, R. Kouser, R. Aslam, S. Zehra, Chapter 1, Latest developments in commercial scale fabrications for Chemically Modified Carbon Nanotubes, Functionalized Carbon Nanotubes

- for Biomedical imaging: The Recent Advances, Book Title: Functionalized Carbon Nanotubes for Biomedical Applications (Current & Emerging Research Developments), WILEY-VCH GmbH, 75-93 (2023), ISBN:9783527838790, <https://doi.org/10.1002/9783527838790.ch3>
24. S. I. Bhat, **M. Mobin**, S. Islam, M. Irfan, R. Kouser, R. Aslam, S. Zehra, Chapter 2, Chemically Modified Carbon Nanotubes and Sustainability, Book Title: Functionalized Carbon Nanotubes for Biomedical Applications (Current & Emerging Research Developments), WILEY-VCH GmbH, 491-503 (2023), ISBN:9783527838790, <https://doi.org/10.1002/9783527838790.ch21>
25. A. Abbas, S. Zehra, R. Aslam, **M. Mobin**, and S. I. Bhat, Chapter 9, Functionalized Carbon Nanotubes for Biomedical imaging: The Recent Advances, Book Title: Functionalized Carbon Nanotubes for Biomedical Applications (Current & Emerging Research Developments), WILEY-VCH GmbH, 197-223 (2023), ISBN:9783527838790, <https://doi.org/10.1002/9781119905080.ch9>
26. **M. Mobin**, K. Cial, J. Aslam, M. Parveen, R. Aslam, Chapter 17, Grafted dextrin as a corrosion inhibitor, Book title: Grafted Biopolymers as Corrosion Inhibitors: Safety, Sustainability, and Efficiency, Publisher: Wiley, 383-396 (2023), <https://doi.org/10.1002/9781119881391.ch17>
27. R. Aslam, **M. Mobin**, Lei Guo, Chapter 13, Influence of Activated Carbon on Metallic Corrosion, Book title: Activated Carbon: Progress and Applications, Publisher: The Royal Society of Chemistry, 268-275 (2023), <https://doi.org/10.1039/BK9781839169861-00268>.
28. **M. Mobin**, S. Zehra, Chapter 13, Corrosion Control by Cathodic Protection, Book Title: Electrochemical and Analytical Techniques for Sustainable Corrosion Monitoring, Elsevier, 265-279 (2023), <https://doi.org/10.1016/B978-0-443-15783-7.00006-2>.
29. S. Zehra, **M. Mobin**, R. Aslam, M. Parveen, A. Aslam, Chapter 23, Nanocontainers loaded smart functional anticorrosion coatings, Book Title: Smart anticorrosive materials: Trends and opportunities, Elsevier, 48-497 (2023), <https://doi.org/10.1016/B978-0-323-95158-6.00003-5>.
30. **M. Mobin**, K. Cial, R. Aslam, M. Parveen, Chapter 6. Crude oil Storage Tank Clean up Using Biosurfactants, Book Title: Industrial Applications of Biosurfactants and Microorganisms: Green Technology Avenues from Lab to Commercialization, Elsevier, 107-119 (2024), <https://doi.org/10.1016/B978-0-443-13288-9.00008-5>
31. R. Aslam, **M. Mobin**, S. Zehra, J. Aslam, Chapter 3: Biosurfactants production utilizing microbial resources, Book Title: Industrial Applications of Biosurfactants and Microorganisms: Green Technology Avenues from Lab to Commercialization, Elsevier, 39-58 (2024), <https://doi.org/10.1016/B978-0-443-13288-9.00024-3>
32. **M. Mobin**, S. Zehra, R. Aslam, Chapter 10, Graphene Composite-Based Anti-Corrosion Coatings, Book Title: Carbon Allotropes: Advanced Materials for Anticorrosive Coatings, CRC Press, Taylor & Francis Group, 203-217 (2023), eISBN:9781003323976, <https://doi.org/10.1201/9781003323976>.
33. S. Zehra, **M. Mobin**, Babar Khan, Chapter 13, Pectin as corrosion inhibitors, Book Title: Biopolymers in Sustainable Corrosion Inhibition, CRC Press,

- Taylor & Francis Group, (2024) eBook ISBN 9781003400059.  
<https://doi.org/10.1201/9781003400059-13>
34. K. Cial and **M. Mobin**, Chapter 20: Phytochemicals/Plant extracts as corrosion inhibitors for aluminium in NaCl solution, Book Title: Plant extract and phytochemicals as corrosion inhibitors, Publisher: CRC, Taylor and Francis group, eBook ISBN9781003394631, <https://doi.org/10.1201/9781003394631>.
  35. M. Parveen **M. Mobin**, S. Zehra, R. Aslam, K. Cial, Chapter 22: Phytochemicals/plant extracts as corrosion inhibitors for zinc in NaCl solutions, Book Title: Plant extract and phytochemicals as corrosion inhibitors, Publisher: CRC, Taylor and Francis group, eBook ISBN9781003394631, <https://doi.org/10.1201/9781003394631>
  36. Babar Khan, **M. Mobin**, R. Aslam, Chapter 4: Aqueous and organic extracts: Advantages and disadvantages and their relative anticorrosive performance, Book Title: Plant extract and phytochemicals as corrosion inhibitors, Publisher: CRC, Taylor and Francis group, eBook ISBN9781003394631, <https://doi.org/10.1201/9781003394631>.
  37. S. Zehra, **M. Mobin**, Chapter 1: Biomimetic coatings: an introduction, Book Title: Smart Biomimetic coatings: Design, Properties, and Biomedical Applications, Woodhead Publishing, 1-17 (2024) <https://doi.org/10.1016/B978-0-443-21738-8.00001-1>
  38. S. Zehra, **M. Mobin**, M. Parveen and R. Ahmad, Chapter 1: Corrosion Fundamentals: Understanding the Science Behind the Damage, Book Title: Industrial Corrosion Fundamentals, Failure, Analysis and Prevention, Publisher: John Wiley & Sons, 1-16 (2025).
  39. S. Zehra, **M. Mobin** and R. Ahmad, Chapter 13: Corrosion Monitoring and Inspection Techniques in Industrial Environments, Book Title: Industrial Corrosion Fundamentals, Failure, Analysis and Prevention, Publisher: John Wiley & Sons, 297-319 (2025).
  40. K. Cial, **M. Mobin**, M. Parveen, Chapter 12: Polysaccharides and Their Derivatives as Corrosion Inhibitors: Effect of Functionalization on Solubility, Bonding, Adsorption and Efficiency, Book Title: Polymers as Corrosion Inhibitors: Principles to Applications, Publisher: Royal Society of Chemistry, ISBN: 978-1-83767-489-3, 215-228 (2025), <https://doi.org/10.1039/9781837677214>

## **SUPERVISOR FOR RESEARCH DEGREE**

- 18 students awarded PhD; 01 student submitted PhD and 02 student awarded MPhil.

## **PhD Degree Awarded**

1. **S.K. Hasan**, "High temperature studies on some inorganic coatings and related reactions involving metal oxides and ionic salts" (**Year of Award 2000**).
2. **Nelofar Tanveer**, "Studies on the corrosion protection of steel by conducting polymer coatings" (**Year of Award 2011**).
3. **Nazia Iqbal**, (2012), "Studies on the synthesis, characterization and ion-exchange properties of some surfactant based ion-exchangers" (**Year of Award 2012**).
4. **Hina Shabnam**, "Studies on the role of heavy metal ions on the corrosion behavior of iron base alloys" (**Year of Award 2012**).
5. **Mosarrat Parveen**, "Studies on the corrosion inhibition behavior of some amino acid surfactant additives" (**Year of Award 2012**).
6. **Uzma Aisha**, "Kinetic of degradation of pesticides in organized media" (**Year of Award 2012**).
7. **M. Alam Khan**, "Studies on the corrosion inhibition behavior of some Polymers surfactant additives" (**Year of Award 2013**).
8. **Sheerien Masroor**, "Studies on the corrosion inhibition behavior of some novel surfactants for steel" (**Year of Award 2014**).
9. **Ruman Alam** "Studies on some novel anticorrosion conducting polymeric materials"(Year of Award 2016).
10. **Saman Zehra** "Studies on the corrosion inhibition behavior of some amino acids and their derivatives" (**Year of Award 2017**).
11. **Marzia Rizvi** "Studies on the corrosion inhibition behavior of some natural and synthetic polymers"(Year of Award 2018).
12. **Ruby Aslam** "Studies on some gemini surfactants as corrosion inhibitors"(Year of Award 2018).
13. **Mohd. Shoeb** "Development and application of graphene based nanocomposites" (**Year of Award 2019**).
14. **Megha Basik** "Development of some noble environment friendly corrosion inhibitors for mild steel" (**Year of Award 2019**).
15. **Irfan Ahmad**: Studies on the corrosion inhibition behavior of some biopolymers and their derivatives (**Year of Award 2022**).
16. **Farina Ansar**: Studies on some novel anticorrosion coatings based on conducting polymers (**Year of Award 2023**).
17. **Huda**: Development of some ionic liquids-based corrosion inhibitors for mild steel (**Year of Award 2023**).
18. **Babar Khan**: Studies on some plant based green corrosion inhibitors for mild steel (**Year of Award 2025**).
19. **Kanica Cial**: Studies on corrosion inhibition behaviour of some environment friendly surfactants (**Date of submission of thesis: 12.3.2026**).

**M.Phil. Awarded**

1. **S.K. Hasan**, "Physico-chemical studies on some inorganic coatings" (**Year of Award 1998**).
2. **Ruby Aslam**, "Microstructural evaluation in biodegradable gemini surfactant solutions in presence of additives" (**Year of Award 2014**).

#### **Post-Doctoral Supervision:**

1. **Dr. Zeenat Aslam** "Development of some anticorrosive conducting polymer based nano-composite coatings on iron-base alloys, [Research Associate (CSIR) January 28, 2014-January 27, 2017].
2. **Dr. Ruby Aslam** "Development of some sustainable corrosion inhibitor-experimental and theoretical approach" [Research Associate (CSIR) May 01, 2019-April 30, 2022].
3. **Dr. Saman Zehra** "Development of Smart Functional Coatings Loaded with Stimuli-Responsive Nanocontainers for Corrosion Sensing and Protection"[ Research Associate (CSIR) January 28, 2021-April 23, 2022].
4. **Dr. Mohd. Shoeb** "Development of novel two dimensional nanomaterial based nanocomposite for advancement in energy storage devices" [Research Associate (CSIR) March 16, 2021-Continuing].
5. **Dr. Shahidul Islam Bhat** "Study of bio-based reduced graphene oxide dispersed water borne hyper branched functional nanocomposite coatings" [Dr. D. S. Kothari Fellow September 30, 2021-continuing].
6. **Dr. Saman Zehra**, Women Scientist (WOS-A), DST, New Delhi, April 25, 2022-Continuing.
7. **Dr. Ruby Aslam** "Development of Smart Functional Coatings Loaded with Stimuli-Responsive Nanocontainers for Corrosion Sensing and Protection"[ Research Associate (CSIR) May 01, 2022- Continuing].

#### **SUPERVISOR FOR MASTER DEGREE**

##### **M.Sc. Tech Awarded**

1. **Aqsa Iqbal Khan**, "Synthesis, characterization and application of graphene polyindole nanocomposite" (**Year of Award 2015**).
2. **Priyanka Deb**, "Synthesis, characterization and application of graphene polyindole nanocomposite" (**Year of Award 2015**).
3. **Sameer Khan**, "Synthesis, characterization and application of graphene polyindole nanocomposite" (**Year of Award 2015**).
4. **Farheen Fatima**, "One step synthesis and characterization of graphene based Ag polyindole nanocomposite network" (**Year of Award 2016**).
5. **Neetika Varshney**, "One step synthesis and characterization of graphene based Ag polyindole nanocomposite network" (**Year of Award 2016**).
6. **Farina Ansar**, "Synthesis and characterization of graphene based Ag<sub>2</sub>MoO<sub>4</sub>/Ag/AgBr-polyaniline nanocomposite" (**Year of Award 2017**).

7. **Jitendra Kumar Lawaniya**, "Synthesis and characterization of graphene based  $\text{Ag}_2\text{MoO}_4/\text{Ag}/\text{AgBr}$ -polyaniline nanocomposite" (**Year of Award 2017**).
8. **Liaqat Ali Kamran**, "Trash to treasure: Waste eggshells polyindole nanocomposite used as high-performance supercapacitors and protective coatings" (**Year of Award 2018**).
9. **Mohd. Riyaz**, "Trash to treasure: Waste eggshells polyindole nanocomposite used as high-performance supercapacitors and protective coatings" (**Year of Award 2018**).
10. **Sitwat Almas**, "Two-dimensional based polymer nanocomposites in supercapacitor applications" (**Year of Award 2020**).
11. **Abdul Hai**, "Two-dimensional based polymer nanocomposites in supercapacitor applications" (**Year of Award 2020**).
12. **Mohd. Osama Khizri**, "Study on the polyindole based supercapacitors" (**Year of Award 2022**).

### **CONFERENCE/ WORKSHOP ATTENDED**

- Attended 43 national and international (13 foreign and 30 national) conferences.

### **Foreign Conferences**

1. 19<sup>th</sup> Asian Pacific Corrosion Control Conference, held at Guangzhou, China, November 16-18, 2023.
2. 19<sup>th</sup> International Corrosion Congress, held at Jeju, Republic of Korea, November 02-06, 2014.
3. NACE Corrosion 2011, Conference and Expo, held at Houston, Texas-77084, USA, March 13-17, 2011.
4. Seminar on "Electron Microscopy in the Nanotech World", organized by A.R. Al-Gosaibi G.T.B. and JEOL Ltd Japan, held at Dhahran Intercontinental hotel, K.S.A., March 06, 2006.
5. World Congress on Desalination and Water Reuse, Organized by International Desalination Association, held at Singapore, September 11-16, 2005.
6. The 4<sup>th</sup> Gained Experience Symposium", organized by Saline Water Conversion Corporation, held at Jeddah Hilton, K.S.A. April 24-26, 2005.
7. Seminar/Discussion Meeting on "Water Treatment", organized by Saudi Aramco, held at Tower Building, Saudi Aramco, Dhahran, K.S.A., November 29, 2004.
8. Seminar on "Technical exchange meeting on Boilers", organized by SABIC Technology Center, Jubail, held at Jubail Intercontinental hotel, K.S.A., May 11-12, 2004.
9. Seminar on "Air monitoring and emission inventory", organized by Haif industrial and environmental services in collaboration with Rowan William Davies & Irwin Inc. (RWDI) Canada, held at Jubail Intercontinental hotel, K.S.A., October 15, 2003.

10. Seminar/Demonstration/Installation on “Thrukote UB Sleeves”, organized by Al-Qahtani pipe coating terminal, held at AQPCT #2, Dammam, K.S.A., November 4, 2002.
11. Seminar/Workshop on Leica compound/ Stereo microscopy, Digital documentation and Image analysis system, organized by Al Tuwairqie Group of companies, held at Carlton Al- Moiabed hotel, Al- Rakah, Al-Khobar, K.S.A., October 26, 2002.
12. Seminar on “Vapor phase corrosion inhibitors”, organized by M/s Yusuf Bin Ahmed Kanoo in collaboration with Cortec Corporation, USA, held at Jubail Intercontinental hotel, K.S.A., April 3, 2002.
13. 3<sup>rd</sup> Acquired Experience Symposium, “Changing for the better” organized by Saline Water Conversion Corporation, RDTC, Al-Jubail, K.S.A., February 4-6, 2002.

### **National Conferences**

14. Attended International Conference on Chemistry in Multidisciplinary Research 2026 (ICCMR 2026), held at Nagaland Central University, Lumami, February 18-20, 2026. Delivered Keynote talk on “Nanomaterials and Green Chemistry Synergy for Next-Generation Corrosion Inhibition”.
15. Attended 2<sup>nd</sup> International Conference on Transforming Higher Education and Skilling towards Viksit Bharat@2047, Organised by Services Export Promotion Council (Set up by the Ministry of Commerce and Industry, Government of India) at Vigyan Bhawan, New Delhi, September 19, 2025.
16. Attended 3<sup>rd</sup> regional consultative meeting on “Ease of doing Research & Development” organised by National Institution for Transforming India (NITI) Aayog (Gov. of India) at Indian Institute of Technology Jammu, Jammu & Kashmir, July 14-15, 2025.
17. Attended 2<sup>nd</sup> International Conference in Chemistry-2025 on “Innovation in Chemical Sciences for Sustainable Development and Its Importance in Day-to-Day Life” held at the Department of Chemistry, School of Sciences, Maulana Azad National Urdu University, Hyderabad, January 30-31, 2025.
18. Attended 20<sup>th</sup> National Conference on Corrosion Control, held at Coimbatore, Tamil Nadu, December 07-09, 2023.
19. Attended 29<sup>th</sup> International Conference and Expo on Corrosion, CORCON 2023, held at Mumbai, October 25-28, 2023.
20. Attended 28<sup>th</sup> International Conference and Expo on Corrosion, CORCON 2022, held at Udaipur, September 19-22, 2022.
21. Attended NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2021 held at Mumbai, India, November 18-20, 2021.
22. Attended Webinar on Corrosion Science and Technology, CoST2021, organized by Indian Institute of Metals, Kalpakkam chapter, Indira Gandhi Centre for Atomic Research, Kalpakkam, Tamil Nadu, May 12, 2021.

23. Attended NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2019 held at Mumbai, India, September 23-26, 2019.
24. Attended 2<sup>nd</sup> International conference on "Chemistry Industry and Environment", (ICCIE 2019) organized by Department of Applied Chemistry, A.M.U. Aligarh, February 18-19, 2019.
25. Attended 19<sup>th</sup> National Conference on Corrosion Control held at Mayfair Convention, Bhubaneswar, December 05-07, 2018.
26. Attended National Conference on Current Trends in Chemical and Environmental Sciences-2016 held at Institute of Technology and Management, Gorakhpur, UP, April 23, 2016.
27. Attended NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2015 held at Chennai, India, November 19-21, 2015.
28. Attended NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2014 held at Mumbai, India, November 12-15, 2014.
29. Attended NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2013 held at New Delhi, India, September 30-October 03, 2013.
30. Attended National workshop "Advances in polymeric materials" held at Department of Applied Chemistry, A.M.U. Aligarh, India, September 21-22, 2013.
31. Attended NACE International East-Asia Pacific Area Corrosion Conference and Expo-CORCON 2011 held at Mumbai, India, September 28-October 01, 2011.
32. Attended 14<sup>th</sup> National congress on corrosion control, organized by National Corrosion Council of India (NCCI), held at Hotel Green Park Hyderabad, September 18-20, 2008.
33. Attended International conference on Corrosion "Corcon 2007" organized by NACE International India section, held at Intercontinental the Grand Mumbai, September 26-28, 2007.
34. Attended 34<sup>th</sup> National Workshop on "Radiochemistry and Applications of Radioisotopes", Sponsored by board of research in nuclear sciences, DAE and conducted jointly by the Department of Applied Chemistry, A.M.U. Aligarh and Indian Association of Nuclear Chemists and Allied Scientists, February 8-15, 1999.
35. Attended International conference on "Chemistry Industry and Environment", organized by Department of Applied Chemistry, A.M.U. Aligarh, February 9-11, 1998.
36. Attended II<sup>nd</sup> "Induction Training Program for Teachers in Engineering", organized by the Academic staff college, Aligarh Muslim University, Aligarh (Sponsored by All India Council of Technical Education, New Delhi) September 4-23, 1995.
37. Attended International workshop on "High temp. Corrosion and Surface Treatment", organized jointly by ASM International India chapter and SAEST Bombay chapter, Bombay, February 5-6, 1995.

38. Attended National Seminar on Corrosion and its Prevention in Steel and related Industries, organized by Steel Authority of India Ltd., held at Ranchi, October 19-20, 1989.
39. Attended Academic staff orientation program organized by Academic staff college, Aligarh Muslim University, Aligarh, May 1- June 1, 1989.
40. Attended Academic staff orientation program organized by Academic staff college, Aligarh Muslim University, Aligarh, April 4-30, 1988.
41. Attended Workshop on "Evaluation Methodology", organized by Examination Reform Unit, Aligarh Muslim University Aligarh (in collaboration with NCERT, New Delhi) October 25-30, 1987.
42. Attended International congress on Metallic Corrosion, organized by Central Electrochemical Research Institute, Karaikudi, India, on behalf of International Corrosion Council, held at Madras, India, November 7-11, 1987.
43. Attended International conference on Corrosion Science and Technology, ICMS - 85, held at Calcutta India, February 21-23, 1985.

## PERSONAL DETAILS

- Date of Birth: January 01, 1962
- Marital Status/ Sex: Married/ Male

## REFERENCES

1. Prof. Prof. R.S. Dubey, Former Vice-Chancellor, Former Vice-Chancellor, Central University of Gujrat. E-mail: [rsdbhu@rediffmail.com](mailto:rsdbhu@rediffmail.com); Mobile: 09978888593
2. Prof. P.K. Abdul Azis, Former Vice-Chancellor, Aligarh Muslim University and Cochin University of Science & Technology. E-mail: [2dr.azis47@gmail.com](mailto:2dr.azis47@gmail.com), Mobile: 08078515257