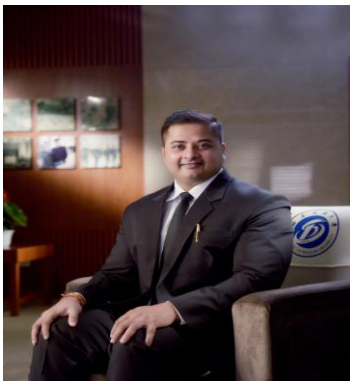
Curriculum Vitae



Prof. (Dr.) AMBRISH SINGH (FRSC, FICS)

Professor & Head

DOB: 07/09/1985

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Accolades/ Achievements
➢ **Total Citations** = >12,500; Total i10 index = >170; h-index = 65.
➢ **Top 2% scientists** in the world for the last 7 years- Stanford and Elsevier. ➢ **Career list of 2% scientists** in the world for the last 6 years- Stanford and Elsevier.
➢ My first research article during my Ph.D. is one of the most cited articles in the Materials Chemistry and Physics journal, with more than 690 citations.
➢ **Published** >200 SCI research papers in high-impact peer-reviewed journals.
➢ **Five International patents** granted in South Africa, 1 International Patent granted in China, 20 National patents granted in India, 11 International Design patents granted in the United Kingdom, 15 National Design Patents granted in India, and 11 International utility models granted in Germany. 1 National Copyright has also been granted in India.
➢ **Keynote/Invited Lectures** >50 National and International Conferences with Oral presentations.
➢ **Resource person** for >60 National and International Workshops /Seminars/ Webinars.
➢ **Visiting Professor** at the Al Farabi National Kazakh University, Almaty, Kazakhstan.
➢ **Visiting Professor** at the University of Science and Technology, Beijing, China.
➢ **Consultant** to King Fahd University of Petroleum and Minerals (KFUPM), Dhahran, Saudi Arabia.
➢ **Consultant** to National Institute of Solar Energy (NISE), Gurgaon, India.

Education:

22/06/2008 to 10/05/2011	**Ph.D**., Applied Chemistry, Veer Bahadur Singh Purvanchal University (Supervisor: Dr. V. K. Singh) UP College, Varanasi and (Co-Supervisor: Prof. M. A. Quraishi) Department of Applied Chemistry, Indian Institute of Technology, Banaras Hindu University,
01/07/2005 to 31/07/2007	**M.Sc**. Chemistry, Veer Bahadur Singh Purvanchal University (Supervisor: Prof. A. K. Singh)
01/07/2002 to 01/06/2005	**B.Sc**., Department of Chemistry, Veer Bahadur Singh Purvanchal University

Professional Experience:

22/05/2023 – till now	-	**Professor,** Department of Chemistry, Nagaland University, Lumami, Zunheboto district-798267, Nagaland, India.
01/01/2016 – 14/05/2023	-	**Professor (>7 years),** School of Materials Science and Engineering, Southwest Petroleum University, Xindu District, Chengdu City, Sichuan Province, China.
01/07/2013 to 31/12/2015	-	**Post Doctoral Research Fellow**, School of Materials Science and Engineering, Southwest Petroleum University, Xindu District, Chengdu City, Sichuan Province, China.
21/07/2012 to 31/05/2013	-	**Assistant Professor,** Department of Chemistry, Lovely Professional University, Phagwara-144411, Punjab, India.
01/04/2011 to 31/03/2012	-	**Senior Research Fellow**, Department of Applied Chemistry, Indian Institute of Technology, Banaras Hindu University, Varanasi-221005, India.
26/11/2009 to 14/09/2010	-	**Research Assistant**, Department of Applied Chemistry, Indian Institute of Technology, Banaras Hindu University, Varanasi-221005, India.

Administrative Experience:

22/04/2025– till now	**Head**, Department of Chemistry, Nagaland University, Lumami headquarters, Nagaland, India.
24/03/2026– till now	**Co-Ordinator**, Multidisciplinary Research Centre (MDRC), Nagaland University, Lumami headquarters, Nagaland, India.
23/10/2023-18/08/2025	**Deputy Cell In-Charge**, IPR Cell, Nagaland University, Lumami headquarters, Nagaland, India.

University Assignments:

22/04/2025- till now	**Chairman**, Board of Studies, Department of Chemistry, Nagaland University, Lumami Headquarters, Nagaland, India.
03/08/2023-21/04/2025	**Member**, Board of Studies, Department of Chemistry, Nagaland University, Lumami Headquarters, Nagaland, India.
26/06/2023-25/06/2026	**Member**, Board of Studies, Department of Zoology, Nagaland University, Lumami Headquarters, Nagaland, India.
25/08/2023-24/08/2026	**Member**, Board of Studies, Department of Environmental Studies, Nagaland University, Lumami Headquarters, Nagaland, India.
25/08/2023-24/08/2026	**Member**, Board of Studies, Department of Physics, Nagaland University, Lumami Headquarters, Nagaland, India.
10/08/2023-09/08/2026	**Member**, Board of Studies, Department of Soil Science, Nagaland University, Lumami Headquarters, Nagaland, India.
22/07/2026-till now	**Member**, Board of Studies, Department of Soil Science, Nagaland University, Lumami Headquarters, Nagaland, India.
22/08/2023-till now	**Member**, School Board, Nagaland University, Lumami Headquarters, Nagaland, India.
22/08/2023-till now	**Member**, Academic Council, Nagaland University, Lumami Headquarters, Nagaland, India.

Awards:

2026	**Professor S.T. Nandibewoor Award** from Indian Chemical Society, Kolkata, India
2024	**Distinction in Corrosion Award** from AMPP USA and India Chapter.
2024	**Fellow, Indian Chemical Society** (FICS), Kolkata, India
2023	**Sichuan High Level Talent** (A2) Award, China
2022	**Fellow, Royal Society of Chemistry** (FRSC), London, UK.
2019	**Best Paper Award**, CMSE, Sanya, China.
2017	**Sichuan 1000 Talent Award** by Sichuan Government.
2016	**President's Award** for outstanding Postdoctoral work.
2015	**Best Researcher Award**, School of Physical Sciences, Lovely Professional University, Phagwara, Punjab, India.

2013	**Best research papers award** (First prize), Global Alumni, Indian Institute of Technology, Banaras Hindu University, Varanasi, India.
2012	**Young Scientist Award** funded by Council of Science and Technology, Uttar Pradesh, India.
2012	**Best research papers award** (First prize), Global Alumni, Indian Institute of Technology, Banaras Hindu University, Varanasi, India.
2011	**SRF (Extended)** by CSIR-HRDG, New Delhi, India.

Projects Ongoing/Completed

- Completed 6 national and international projects as PI and 9 projects as Co-PI.
- 1 Consultancy completed for KFUPM, Saudi Arabia.
- 1 Consultancy completed for National Institute of Solar Energy (NISE), Gurgaon.

Research Interests:

Corrosion inhibitors, Corrosion prevention techniques and phenomena, Electrochemistry, New Energy and Storage Devices, Coatings, Computational Chemistry, Green Chemistry, Polymers/Biopolymers, Nano-Materials/Composites, Materials Science and Engineering, Petroleum Engineering.

Membership/Fellowship of Societies:

- Fellow at the Royal Society of Chemistry (FRSC)
- Fellow at the Indian Chemical Society (FICS)
- Fellow at the National Environmental Science Academy (FNESA)
- Fellow at the International Organization for Academic and Scientific Development (FIOASD)
- Fellow at the Scholars Academic and Scientific Society (FSASS)
- Life member at the Indian Science Congress Association (ISCA)
- Life member at the Chemical Research Society of India (CRSI)
- Life member at the Indian Institute of Chemical Engineers (IICE)
- Life member at the National Environmental Science Academy (NESA)
- Life member at the Save The Environment (STE)
- Life member at the Indian Thermodynamics Society (ITS)
- Life member at the Association of Chemistry Teachers (ACT)
- Life member at the Materials Research Society of India (MRSI)

LINKS TO WEBSITES

- Google Scholar https://scholar.google.com/citations?user=qkfaT5QAAAAJ&hl=en
- Scopus 57202898174
- Orchid 0000-0002-9652-7717
- Researcher ID B-8597-2011
- Vidwan ID 436707

List of Publications Year-Wise

2026:

1. Chandrabhan Verma, **Ambrish Singh**, Akram Alfantazi, Benzopyran derivatives as polydentate chelating corrosion inhibitors: Natural products-based σ-donors and π-acceptor ligands, Coordination Chemistry Reviews, 548 (2026) 217191.
   ISSN: 0010-8545 **(Impact Factor = 23.5)**
2. Vetezo Venuh, Liweu Letro, Limasenla Longkumer, Therola Sangtam, Vila Rutsa, Akhiu K. Yimchunger, Azen Aier, T. Ngipwem Hellen, **Ambrish Singh**, Polymeric solutions for combating corrosion: advancements and state of art, European Polymer Journal, (2026) 114684.
   ISSN: 0014-3057 **(Impact Factor = 6.3)**
3. Yuhao Song, Si Duan, Zijie Tang, Wenchao Liu, Kashif Rahmani Ansari, Ambrish Singh, Long He, Yuanhua Lin, Mohd Talha, **Ambrish Singh**, Development and comparative study of gemini imidazoline acidizing inhibitors: Fluorine substitution impact on inhibition performance and interfacial mechanism — Experiments and simulations, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 749 (2026) 141236.
   ISSN: 0927-7757 **(Impact Factor = 5.4)**
4. Xinle Liu, Xinyang Liu, Ye Zhang, Wei Tong, Ambrish Singh, Yujie Qiang, Biomass-derived carbon dots as efficient corrosion inhibitors for Q235 steel in acidic environment, Corrosion Communications, (2026).
   ISSN: 2667-2669 **(Impact Factor = 10.7)**
5. Yuhao Song, Pengjie Wang, Zijie Tang, Si Duan, Kashif Rahmani Ansari, **Ambrish Singh**, Xiangwei Kong, Yuanhua Lin, Mohd Talha, Ye Peng, Toward molecular design of high-temperature corrosion inhibitors: A comparative study and mechanistic investigation of conventional versus fluorinated imidazoline surfactants via experimental and theoretical simulation, Electrochimica Acta, 547 (2026) 147825.
   ISSN: 0013-4686 **(Impact Factor = 5.6)**
6. Wanying Liu, Xinxin Hou, **Ambrish Singh**, Zhi Zhang, Zeyang Lin, Haipeng Cui, Comprehensive Experimental and Theoretical Study on the Adsorption and Corrosion Inhibition Performance of a Novel Imidazoline-Schiff Base for N80 Steel in HCl Solution, Journal of the Indian Chemical Society (2026) 102505.
   ISSN: 2667-2847 **(Impact Factor = 3.4)**
7. Vilabeilie Rutsa, Akhiu K. Yimchunger, Therola Sangtam, Vetezo Venuh, Limasenla Longkumer, Liweu Letro, T. Ngipwem Hellen, Azen Aier, **Ambrish Singh**, Plant extracts

as environmentally benign corrosion inhibitors in protecting metals from acid media: a review, Chemical Papers (2026).

ISSN: 0366-6352 **(Impact Factor = 2.5)**

8. Yuhao Song, Pengjie Wang, Zijie Tang, Kashif Rahmani Ansari, Hao Li, **Ambrish Singh**, Xiangwei Kong, Yuanhua Lin, Mohd Talha, Enhanced Corrosion Protection of Carbon Steel in HCl Solution by a Synergistic Mixture of Imidazopyridine Derivative and 2-Amino Benzimidazole: Experimental and Simulation Studies, Journal of Molecular Structure, 1349 (2025) 143608.

   ISSN: 0022-2860 **(Impact Factor = 4.7)**

9. Ye Zhang, Xinyang Liu, **Ambrish Singh**, Ying Jin, Yujie Qiang, Tailored carbon quantum dots from apple leaves for sustainable corrosion inhibition, Journal of Alloys and Compounds, 1050 (2026) 185489.

   ISSN: 0925-8388 **(Impact Factor = 6.3)**

10. Akhiu K Yimchunger, Therola Sangtam, Vetezo Venuh, Vilabeilie Rutsa, Limasenla Longkumer, Liweu Letro, T Ngipwem Hellen, Azen Aier, **Ambrish Singh**, A review on advances in green corrosion inhibition: Harnessing biomass waste and nanotechnology, Corrosion Engineering, Science and Technology, 1050 (2026) 1478422X261416638. https://doi.org/10.1177/1478422X261416638

    ISSN: 1478-422X **(Impact Factor = 6.3)**

2025:

11. T. Sangtam, Chandrabhan Verma, A. Aier, L. Letro, T. N. Hellen, L. Longkumer, V. Venuh, V. Rutsa, A. K. Yimchunger, **Ambrish Singh**, Akram Alfantazi, Lanthanide Salts in Sustainable Corrosion Protection: Chemistry, Progress, Mechanism, Challenges and Opportunities, Coordination Chemistry Reviews, 545 (2025) 217013.

    ISSN: 0010-8545 **(Impact Factor = 23.5)**

12. Kashif R. Ansari, **Ambrish Singh**, Muhammad Younas, Ismat H. Ali, Yuanhua Lin, Progress in metal-organic frameworks (MOFs) as multifunctional material: Design, synthesis and anticorrosion performance techniques, Coordination Chemistry Reviews, 523 (2025) 216294. **ISSN:** 0010-8545 **(Impact Factor = 23.5)**

13. Sunil Kumar, Abhinay Thakur, Amit Kumar Mishra, Rajeev Kumar, Manickam Selvaraj, Arun Karnwal, Dimple Kumari, Anshuman Srivastava, Ubaid Ahmad Khan, Nidhi Asthana, Ambrish Singh, Laxman Singh, Materials and Processes in Nanogenerators for Energy Harvesting: A Review of Chemical Modification Strategies and Paradigms, Journal of Alloys and Compounds, (2025) 184278.

ISSN: 0925-8388 **(Impact Factor = 6.3)**

14. Zijie Tang, Pengjie Wang, Yuhao Song, Wenchao Liu, Kashif Rahmani Ansari, **Ambrish Singh**, Yuanhua Lin, Study on the Synergistic Corrosion Inhibition Effect of Metal Ion Modified Citrus Peel Extract on Q235 Carbon Steel in Hydrochloric Acid, Journal of the Indian Chemical Society, (2025) 102172.

ISSN: 2667-2847 **(Impact Factor = 3.4)**

15. Therola Sangtam, **Ambrish Singh**, Muhammad Younas, Ismat H. Ali, Yuanhua Lin, Eco-Friendly Corrosion Inhibition: A Review on the Extraction and Testing of Plant-Based Inhibitors, Chemical Papers, 79 (2025) 8253–8280.

ISSN: 0366-6352 **(Impact Factor = 2.5)**

16. Z. Djumanazarova, S. Kadirova, N. Kattayev, M. Demir, E. Berdimurodov, **Ambrish Singh**, A. S. Yusuff, O. Dagdag, A. Berisha, I. Eliboev, Comprehensive analysis of magnesium nitrate-urea coordination compounds: Synthesis, characterization, and applications, Journal of the Iranian Chemical Society, 1346 (2025) 143608.

ISSN: 0022-2860 **(Impact Factor = 4.7)**

17. Kashif R. Ansari, **Ambrish Singh**, Abdullah K. Alanazi, Ashutosh Tripathi, Farhat Aisha Ansari, Argimbayeva Akmaral, Bakhytzhan Yeldana, Elyor Berdimurodov, Yuanhua Lin, Electrochemical and quantum chemical investigation on the adsorption behavior of pyrazole-pyridine derivative for corrosion protection of copper in sulfuric acid medium, Journal of Molecular Structure, 1346 (2025) 143225.

ISSN: 0022-2860 **(Impact Factor = 4.7)**

18. Reshmi Bose, Tamanna Pradhan, Bholanath Pakhira, Manas Roy, Subrata Dolui, **Ambrish Singh**, Tanay Pramanik, Strategic methods for the preparation of coumarin fused dihydroquinolines (CFDQ): A concise review, Results in Chemistry, 15 (2025) 102287. **ISSN:** 2211-7156 **(Impact Factor = 4.2)**

19. Zhang Zelei, K.R. Ansari, Yin Caihong, Meng Xianwei, **Ambrish Singh**, Abdullah K. Alanazi, Chidiebere Arinzechukwu Maduabuchi, Yuanhua Lin, Assessment of the inhibitive performance of pyrimidine derivative for P110 steel in simulated formation water: Establishing the inhibition mechanism at an experimental and theoretical level, Journal of The Taiwan Institute of Chemical Engineers, 165 (2025) 105782.

ISSN: 1876-1070 **(Impact Factor = 6.3)**

20. Zilolakhon Chalaboeva, Surayyo Razzokova, Shakhnoza Kadirova, W.B. Wan Nik, **Ambrish Singh,** Adeyinka Sikiru Yusuff, Elyor Berdimurodov, Ilyos Eliboev, Uzma Haseen, Ahmad Hosseini-Bandegharaei, Synthesis and Characterization of a Zinc-Triazole Coordination Complex with Potent Antimicrobial and Anticancer Properties,

Journal of Molecular Structure, 1321 (2025) 139978. **ISSN:** 0022-2860 **(Impact Factor = 4.7)**

21. Kashif Rahmani Ansari, **Ambrish Singh**, Shivani Singh, Anurag Singh, Ismat H. Ali, Muhammad Younas and Yuanhua Lin, Current advancements on Magnesium alloy coatings for bioimplants: a closer look for biocompatibility and corrosion mitigation, Corrosion Reviews, (2025) . **ISSN:** 2191-0316 **(Impact Factor = 3.2)**

22. Yin Caihong, Kashif Rahmani Ansari, Zhang Die, Luo Qian, Pengjie Wang, **Ambrish Singh**, Abdullah K. Alanazi, Yuanhua Lin, In-depth insight into the adsorption mechanism and corrosion inhibition of isonicotinoyl-pyrazole derivative for excellent corrosion performance: Electrochemical and computational evaluation, Materials Today Communications, 46 (2025) 112653. **ISSN:** 2352-4928 **(Impact Factor = 4.5)**

23. Zijie Tang, Pengjie Wang, Yuhao Song, Si Duan, Wenchao Liu, Kashif Rahmani Ansari, **Ambrish Singh**, Yuanhua Lin, Synergistic mechanism and synergistic effect of two structurally complex imidazole derivatives forming a double adsorption layer, Applied Surface Science, 701 (2025) 163239. **ISSN:** 0169-4332 **(Impact Factor = 6.9)**

24. Kashif Rahmani Ansari, **Ambrish Singh**, Ashutosh Tripathi, Ismat H. Ali, Pengjie Wang, M.A. Quraishi, Abdullah K. Alanazi, Yuanhua Lin, Understanding the adsorption of imidazo-pyrimidine derivative corrosion inhibitor at the P110 steel/CO_2+H_2S saturated simulated formation water interface: experimental and theoretical elucidation, Journal of The Taiwan Institute of Chemical Engineers, 173 (2025) 106149. **ISSN:** 1876-1070 **(Impact Factor = 6.3)**

25. Laxman Singh, S. Balakrishnan, J. J. William, S. Parveen, P. A. Periasamy, R. Kumar, A. Srivastava, S. Kumar, A. K. Shringi, D. Kumari, **Ambrish Singh**, F. Yan, Mechanistic insights in surface engineering of Micro/Nanocomposite phase change materials for thermal energy Storage: A Review, Advanced Energy & Sustainability Research, 57 (2025) 2500067.
ISSN: 2699-9412 **(Impact Factor = 5.7)**

26. Pengjie Wang, Lin Fan, Yuhao Song, Hao Li, Kashif Rahmani Ansari, Zhonghui Li, **Ambrish Singh**, Yuanhua Lin, Mhod Talha, Comprehensive Analysis of the Effect of New Efficient and High Temperature Resistant Imidazoline Derivatives on the Corrosion Inhibition Performance of Q235: Experimental and Theoretical Studies, Surface and Interface Analysis, 57 (2025) 163–179.
ISSN: 0142-2421 **(Impact Factor = 1.8)**

27. Kashif Rahmani Ansari, **Ambrish Singh**, Ismat H. Ali, Abdullah K. Alanazi, Muhammad Younas and Yuanhua Lin, Exploring the inhibitive performance of amino-dicarbonitrile

derivative for Q235 steel protection in Cl_3CCOOH solution: effect of temperature and synergism with iodide ions, Corrosion Reviews, (2025) https://doi.org/10.1515/corrrev-2024-0072.

ISSN: 2191-0316 **(Impact Factor = 3.2)**

28. Pengjie Wang, Zijie Tang, Yuhao Song, Hao Li, Kashif Rahmani Ansari, **Ambrish Singh**, Zhonghui Li, Yuanhua Lin, Mhod Talha, Comprehensive analysis of the corrosion inhibition effect of Houttuynia Cordata extract: experimental and theoretical research, Corrosion Engineering, Science and Technology, 60 (2025) 290-306.

ISSN: 1478-422X **(Impact Factor = 1.9)**

29. Yuhao Song, Pengjie Wang, Zijie Tang, Zhonghui Li, Kashif Rahmani Ansari, Mohd Talha, **Ambrish Singh**, Yuanhua Lin, Corrosion inhibition of two imidazole–pyridine derivatives on Q235 steel in HCl: Experimental and theoretical studies, Corrosion Engineering, Science and Technology, 173 (2025) 106149.

ISSN: 1478-422X **(Impact Factor = 1.9)**

2024:

30. Chandrabhan Verma, **Ambrish Singh,** Prashant Singh, Akram Alfantazi, Kyong Yop Rhee, Regioisomeric Effect of Heteroatoms and Functional Groups of Organic Ligands: Impacts on Coordination Bonding and Corrosion Protection Performance, Coordination Chemistry Reviews, 515 (2024) 215966. **ISSN:** 0010-8545 **(Impact Factor = 23.5)**

31. Ambrish Singh, K.R. Ansari, Siham K. AbdelRahim, Ismat H. Ali, Brahim EL Ibrahimi, Abdullah K. Alanazi, Muhammad Younas, Yuanhua Lin, Potential application of Ginkgo Biloba extract as a green corrosion inhibitor for carbon steel reinforcement in chloride-polluted simulated concrete pore solution, Process Safety and Environmental Protection, 186, (2024) 819-832. ISSN: 0957-5820 **(Impact Factor = 7.800)**

32. Yuhao Song, Pengjie Wang, Zijie Tang, Kashif Rahmani Ansari, Hao Li, **Ambrish Singh,** Xiangwei Kong, Yuanhua Lin, Mohd Talha, Experimental and theoretical investigations of a novel imidazoline quaternary ammonium salt as an effective inhibitor of Q235 steel in 1 M HCl, Journal of Dispersion Science and Technology, (2024) 139978. ISSN: 0022-2860 **(Impact Factor = 2.8)**

33. Lin Fan, Pengjie Wang, Yuhao Song, Kashif Rahmani Ansari, Hao Li, **Ambrish Singh,** Xiangwei Kong, Yuanhua Lin, Mohd Talha, Two schiff base as corrosion inhibitors for N80 in 1.0 M HCl: Experimental and theoretical studies, Journal of The Indian Chemical Society, 101 (2024) 101316. ISSN: 2667-2847 **(Impact Factor = 3.2)**

34. Zhang Zelei, K.R. Ansari, Yin Caihong, Meng Xianwei, **Ambrish Singh,** Abdullah K. Alanazi, Chidiebere Arinzechukwu Maduabuchi, Yuanhua Lin, Assessment of the inhibitive performance of pyrimidine derivative for P110 steel in simulated formation water: Establishing the inhibition mechanism at an experimental and theoretical level, Journal of The Taiwan Institute of Chemical Engineers, 165 (2024) 105782. ISSN: 1876-1070 **(Impact Factor = 5.5)**

35. Hao Li, K.R. Ansari, Pengjie Wang, **Ambrish Singh,** Yuanhua Lin, Yuhao Song, Lin Fan, Corrosion inhibition by amino acid functionalized chitosan derivative at Q235 steel/ H_2SO_4 solution interface: Experimental and surface investigations, Materials Today Communications, (2024) 109698. ISSN: 2352-4928 **(Impact Factor = 3.7)**

36. Pengjie Wang, Yuhao Song, Lin Fan, Zhonghui Li, Kashif R. Ansari, Mhod Talha, **Ambrish Singh,** Yuanhua Lin, Anticorrosion evaluation of novel Schiff-Imidazole molecules for Q235 steel in 1.0 mol/L HCl by computational and experimental methodologies, Journal of Molecular Structure, (2024) 137793. ISSN: 0022-2860 **(Impact Factor = 3.800)**

37. Abhinay Thakur, Ashish Kumar, **Ambrish Singh**, Adsorptive removal of heavy metals, dyes, and pharmaceuticals: Carbon-based nanomaterials in focus, Carbon, 217 (2024) 118621. ISSN: 0008-6223 **(Impact Factor = 10.900)**

38. **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Abdullah K. Alanazi, Muhammad Younas, Yuanhua Lin, Long chain imidazole derivative as a novel corrosion inhibitor for Q235 steel in 15 % HCl medium under hydrodynamic condition: Experimental and theoretical examinations, Materials Chemistry and Physics, 313 (2024) 128798. ISSN: 0254-0584 **(Impact Factor = 4.600)**

39. Pooja Bedi, Diksha Chaudhary, Reshmi Bose, Soumava Santra, Kashif R. Ansari, Rajbir Kaur, Tanay Pramanik, Therola Sangtam, Ambrish Singh, Synthetic methodologies to access bioactive bis-coumarin scaffold: a recent progress, Zeitschrift für Physikalische Chemie (ZPC), 376 (2024) 1-55. ISSN: 2196-7156 **(Impact Factor = 2.408)**

40. Yin Caihong, **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Brahim EL Ibrahimi, Abdullah K. Alanazi, Muhammad Younas, Yuanhua Lin, Graphene oxide composite as a novel corrosion inhibitor for N80 steel in 15 % HCl: experimental and quantum chemical examinations, Zeitschrift für Physikalische Chemie (ZPC), (2024). ISSN: 2196-7156 **(Impact Factor = 2.408)**

41. **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Abdullah K. Alanazi, Muhammad Younas, Aeshah H. Alamri, Yuanhua Lin, The assessment of pollutant waste generated by battery and its effect on the environment: a concise review, Zeitschrift für Physikalische Chemie (ZPC), (2024), ISSN: 2196-7156 **(Impact Factor = 2.408)**

42. **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Abdullah K. Alanazi, Muhammad Younas, Yuanhua Lin, Insights into the corrosion resistance of a novel quinoline derivative on Q235 steel in acidizing medium under hydrodynamic condition: experimental and surface study, Zeitschrift für Physikalische Chemie (ZPC), (2024), ISSN: 2196-7156 **(Impact Factor = 2.408)**

43. Pengjie Wang, Yuhao Song, Zijie Tang, Zhonghui Li, Kashif Rahmani Ansari, Mohd Talha, **Ambrish Singh**, Yuanhua Lin, Systematic Analysis of the Effect of Benzene on the Corrosion Inhibition Performance of Imidazoline Derivatives: Experimental and Theoretical Research, Langmuir, 40 (2024) 26903–26917.
ISSN: 0743-7463 **(Impact Factor = 3.9)**

44. Kashif Rahmani Ansari, **Ambrish Singh**, Ismat H. Ali, Yuanhua Lin, Aeshah H. Alamri, Hala M. Abo-Dief , Corrosion mitigation potential of N-(2-(2-pentadecyl-2,5-dihydro-1H-imidazol-1-yl)ethyl)palmitamide palmitate on Q235 steel in sulfuric acid: experimental and theoretical analysis, Chemical Papers, 78 (2024) 8803–8820.

ISSN: 0366-6352 **(Impact Factor = 2.5)**

2023:

45. **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Muhammad Younas, Abdullah K. Alanazi, Aeshah H. Alamri, Yuanhua Lin, Experimental, surface and theoretical investigations of a new benzodiazepine derivative designed for corrosion inhibition of carbon steel in 15% hydrochloric acid medium under hydrodynamic environment, Inorganic Chemistry Communications, 158 (2023) 111684. ISSN: 1879-0259 **(Impact Factor = 3.800)**

46. **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Brahim E. L. Ibrahimi, Abdullah K. Alanazi, Muhammad Younas, Tumul Singh, Yuanhua Lin, Synergistic mixture of *Capsicum annuum* fruit extract/KI as an efficient inhibitor for the corrosion of P110 steel in 15 % HCl solution under hydrodynamic condition, Zeitschrift für Physikalische Chemie (ZPC), vol. 238, no. 2, 2024, pp. 339-361. ISSN: 2196-7156 **(Impact Factor = 2.408)**

47. **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Abdullah K. Alanazi, Yuanhua Lin, Aisha H. Al-Moubaraki, Development of green and sustainable corrosion inhibitor for steel rebar in chloride-polluted simulated concrete pore solution using seed extract of *Psoralea corylifolia* (Badranj Boya), Zeitschrift für Physikalische Chemie (ZPC), (2023) 1-14. ISSN: 2196-7156 **(Impact Factor = 2.408)**

48. **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Neeta Raj Sharma, Anu Bansal, Abdullah K. Alanazi, Aeshah H. Alamri, Muhammad Younas, Yuanhua Lin, A. Noureldeen, Corrosion and bacterial growth inhibition by amino acid functionalized pyridine derivative at P110 steel/oil formation water interface: Experimental, surface and

molecular docking investigations, Journal of Molecular Liquids, 391 (2023) 123305. ISSN: 0167-7322 **(Impact Factor = 6.000)**

49. K. R. Ansari, Dheeraj Singh Chauhan, A.A. Sorour, M. A. Quraishi, A. Y. Adesina, **Ambrish Singh**, Experimental and computational approach on the development of a new Green corrosion inhibitor formulation for N80 steel in 20% formic acid, Journal of Colloid and Interface Science, 652, (2023) 2085-2097. ISSN: 1095-7103 **(Impact Factor = 9.965)**
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23. **Keynote Speaker** in the International Conference of Corrosion, CORCON-2023, Hotel Sahara Star, Mumbai, 25-28 October, 2023.
24. **Invited Speaker** at International Conference of Corrosion in Brazil, Latincorr & Intercor-2023, Hotel Windsor Barra, Rio de Janerio, Brazil, 05-08 November, 2023.
25. **Invited Speaker** at International Conference of Corrosion in China, 19th APCCC-2023, Guangzhou, China, 16-18 November, 2023.
26. **Session Chairman** at International Conference of Corrosion in China, 19th APCCC-2023, Guangzhou, China, 16-18 November, 2023.
27. **Speaker** at International Science Congress-2024, to be held in Lovely Professional University, Phagwara, Punjab, India from 03-05 January, 2024.
28. **Invited Speaker** at the Advances in Science & Technology for Sustainable Development Goals (IC-ASTSDGs-2024) organized by AKS University, Satna M.P., India from March 11 – 12, 2024.
29. **Invited Speaker** at the International Conference on Sustainable and Innovative Materials for Modern Life (ICSMML-2024) organized by Siddharth University, Kapilvastu, Siddharthnagar, India from March 12 – 13, 2024.
30. **Invited Speaker** at the High End Workshop on "Exposure to a Galaxy of Spectroscopic Techniques in Physics, Chemistry, and Biological Sciences" Organised by the Department of Physics, Nagaland University, Lumami Headquarters, Zunheboto-798627, Nagaland, India, March 20-26, 2024.
31. **Invited Speaker** at the International Conference on Recent Advances in Fundamental and Applied Sciences (RAFAS-2024) organized by Lovely Professional University, Phagwara, Punjab, India from April 19 – 20, 2024.
32. **Invited Speaker** at the 1st National Scientist Round Table Conference (NSRTC-2024) organized by MIT-WPU, Pune, Maharashtra, India from July 19 – 22, 2024.
33. **Invited Speaker** at the International Conference of Corrosion (ICC) organized by International Corrosion Council, Xian, China, from October 22 – 26, 2024.

34. **Invited Speaker** at the Asia's largest Conference and Exhibition on Corrosion (CORCON-2024) organized by AMPP USA and India Chapter, at Chennai, India from November 20 – 23, 2024.
35. **Invited Speaker** at the 4th Bodhi International Multidisciplinary Conference on Modern Research in Humanities, Arts and Science (BICOHAS-2025) organized by Universiti Putra Malaysia (UPM), Malaysia from February 26 – March 02, 2025.

POSTER PRESENTATIONS

1. National Joint Symposium organized by **CRSI-RSC** (4-6 Feb.2011), at KIIT University, Bhubaneswar, Orissa, India.
2. International Conference on Corrosion-**CORCON 2011**" (28 Sept. -01 Oct. 2011), at the Lalit Intercontinental Resort, Andheri, Mumbai, India.

SEMINARS AND WORKSHOPS

S.No.	Year	Place	Seminar/Workshop/School	Title of Paper
1.	2015	Shanghai, China	Workshop Attended	How to publish SCI paper
2.	2016	MNIT Jaipur, India	Gave lecture as a resource person in the Workshop	Green corrosion inhibitors for refinery
3.	2016	Chengdu, China	Gave lecture as a resource person in the Seminar	Importance of theoretical calculations in corrosion
4.	2017	Chengdu, China	Gave lecture as a resource person in the Seminar	Green corrosion inhibitors for oil and petroleum industries
5.	2017	Chengdu, China	Gave lecture as a resource person in the Workshop	How to publish an EI, SCI and indexed research paper. What is peer review and

				its importance?
6.	2019	Varanasi, India	Gave lecture as a resource person in the Seminar	Introduction to modern approach for corrosion
7.	2019	KFUPM, SAUDI ARABIA	Gave lecture as a resource person in the Seminar	Modern methods to evaluate corrosion inhibitors for oil and gas industries
8.	2019	Varanasi, India	Gave lecture as a resource person in the Seminar	Latest technologies to mitigate corrosion in oil and gas fields
9.	2019	Chennai, India	Gave lecture as a resource person in the Workshop	Recent electrochemical techniques to monitor corrosion
10.	2021 Seminar	Varanasi, India	Gave lecture as a resource person in the Seminar	Cockroach wings as effective corrosion inhibitors in ASTM standard corrosive media

BOOKS AND BOOK CHAPTERS PUBLISHED

Sl. No.	Title of Book	ISSN Number	Editor/Author	Year
1.	Corrosion Inhibitor, Intechopen, London	978-1-78984-715-4	Editor	2019
2.	Corrosion, Intechopen, London	978-1-78985-256-1	Editor	2021
3.	Corrosion Science Theoretical and Practical Applications, CRC Press, Taylor and Francis	978-1-771-88602-4	Co-Editor	2022
4.	Stainless Steels, Intechopen, London	978-1-80355-133-3	Editor	2022
5.	Introduction to Corrosion - Basics and Advances, Intechopen, London	978-1-83768-667-4	Editor	2023
6.	Metal-Organic Frameworks for Anticorrosive Coatings, CRC Press, Taylor and Francis publications	Not Published	Co-Editor	2025
7.	Granularity of Materials, Intechopen, London	Not Published	Editor	2025
S. No.	**Title of Book Chapter**	**Book Title**	**Author/Co-Author**	**Year**
1.	Investigation of Corrosion Inhibitors Adsorption on Metals	Corrosion Inhibitor, Intechopen, London	Author	2019
2.	Corrosion mitigation by Planar benzimidazole derivatives	Corrosion, Intechopen, London	Author	2021
3.	Spectroscopy in Oilfield Corrosion Monitoring and Inhibition	Corrosion, Intechopen, London	Co-Author	2021
4.	Corrosion Inhibitors for Acidizing Process in Oil and Gas Sectors	Corrosion Inhibitors in the Oil and Gas Industry, Wiley Publications	Co-Author	2021
5.	Experimental Methods of Inhibitor Assessment	Environmentally Sustainable Corrosion Inhibitors, Elsevier Publications	Co-Author	2022
6.	Vapor phase inhibitors for corrosion protection	Eco-Friendly Corrosion Inhibitors-Principles, Designing and Applications, Elsevier Publications	Co-Author	2022
7.	Corrosion inhibitors in near neutral media	Eco-Friendly Corrosion Inhibitors-Principles, Designing and	Co-Author	2022

		Applications, Elsevier Publications		
8.	Introductory chapter on Stainless Steels	Stainless Steels, Intechopen, London	Author	2022
9.	Thiadiazoles: Advances in Research and Applications	Recent Advances on Thiadiazoles as Potential Corrosion Inhibitors for Industrial Metals and Alloys, Nova Science Publishers	Co-Author	2022
10.	Surface Characterization Techniques in Corrosion Inhibition Research	Polymeric Corrosion Inhibitors for Greening the Chemical and Petrochemical Industry, Wiley-VCH GmbH publication	Author	2022
11.	Plant extracts as corrosion inhibitors for different metals/alloys in HNO_3	Phytochemistry in Corrosion Science, CRC Press, Taylor and Francis publications	Co-Author	2024
12.	Plant extracts as corrosion inhibitors for brass in KOH and NH_4OH solutions	Phytochemistry in Corrosion Science, CRC Press, Taylor and Francis publications	Co-Author	2024
13.	Plant extracts as corrosion inhibitors for steel in NaCl solutions	Phytochemistry in Corrosion Science, CRC Press, Taylor and Francis publications	Co-Author	2024
14.	Biomass wastes for Lubricating, Adhesive and Anticorrosive Applications	Biomass wastes for sustainable industrial applications, CRC Press, Taylor and Francis publications	Author	2024
15.	Conclusions and future perspectives	Encapsulated Corrosion Inhibitors for Eco-Benign Smart Coatings, CRC Press, Taylor and Francis publications	Co-Author	2024
16.	Thermodynamic Investigations of Vitamin B7 With Glycol Ethers as the Function of Temperature	Cutting-Edge Applications of Nanomaterials in Biomedical Sciences, IGI Global publications	Co-Author	2024
17.	Chapter 7: Grafting of Natural and Synthetic Polymers: An Approach to Improving Safety, Sustainability, and Efficiency	Polymers as Corrosion Inhibitors: Principles to Applications, Royal Society of Chemistry	Co-Author	2025
18.	Regulatory Framework for Nanomaterials in Environmental Pollution	Advances in Nanomaterials for Detection, Control, and	Co-Author	2025

	Control	Removal of Environmental Pollutants, Springer Nature		
19.	Corrosion Prevention Current and Historical Advancements and Future Directions	Metal-Organic Frameworks for Anticorrosive Coatings, CRC Press, Taylor & Francis Group	Co-Author	2026
20.	Chapter 1 - Introduction and fundamentals of waste-derived catalysts	Waste-Derived Catalysts Sustainable Materials for Energy and Environment, Elsevier	Co-Author	2026
21.	Chapter 9 - Eco-catalysts from agricultural and plant material residues	Waste-Derived Catalysts Sustainable Materials for Energy and Environment, Elsevier	Co-Author	2026
22.	Impact of Processing Variables on the Development of Eco-Friendly and Sustainable Coatings	Eco-Friendly and Sustainable Coatings for Wear-Prone Industrial Applications, CRC Press, Taylor & Francis Group	Co-Author	2026
23.	Sustainable Surface Treatments: Green Coatings for Industrial Wear Resistance	Eco-Friendly and Sustainable Coatings for Wear-Prone Industrial Applications, CRC Press, Taylor & Francis Group	Co-Author	2026
24.	2 - Innovations in materials science for additive manufacturing	Smart Additive Remanufacturing Design, Innovation and Sustainable Technology, Elsevier	Co-Author	2026