

# Curriculum Vitae

**Prof. Dr. AMBRISH SINGH**

**Professor & Head**

**DOB: 07/09/1985**

**Address:** Department of Chemistry, Nagaland University, Lumami Headquarters, Zunheboto district-798267, Nagaland, India



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## **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

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## **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 30/11/2014

- **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.

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## Awards:

2024	<b>Distinction in Corrosion Award</b> from AMPP USA and India Chapter.
2024	<b>Fellow Indian Chemical Society (FICS)</b> , Kolkata, India
2023	<b>Sichuan High Level Talent (A2) Award</b> , China
2022	<b>Fellow Royal Society of Chemistry (FRSC)</b> , London, UK.
2019	<b>Best Paper Award</b> , CMSE, Sanya, China.
2017	<b>Sichuan 1000 Talent Award</b> by Sichuan Government.
2016	<b>President's Award</b> for outstanding Post Doctoral work.
2015	<b>Best Researcher Award</b> , School of Physical Sciences, Lovely Professional University, Phagwara, Punjab, India.
2013	<b>Best research papers award</b> (First prize), Global Alumni, Indian Institute of Technology, Banaras Hindu University, Varanasi, India.
2012	<b>Young Scientist Award</b> funded by Council of Science and Technology, Uttar Pradesh, India.
2012	<b>Best research papers award</b> (First prize), Global Alumni, Indian Institute of Technology, Banaras Hindu University, Varanasi, India.
2011	<b>SRF (Extended)</b> by CSIR-HRDG, New Delhi, India.

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## Projects Ongoing/Completed

- Completed 6 national and international projects as PI and 9 projects as Co-PI.
- 1 Consultancy completed for KFUPM, Saudi Arabia.

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## Research Interests:

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

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## Membership/Fellowship of Societies:

- Fellow at the Royal Society of Chemistry (FRSC)
- Fellow at the Indian Chemical Society (FICS)
- 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)

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## Research Outcomes:

- First ever research article during my Ph.D. is one of the **most cited articles** in Materials Chemistry and Physics journal with more than **650 citations**.
- Published **>200 SCI** research papers in high impact peer-reviewed journals.
- One **international patent** granted in China, 5 granted in South Africa, and 18 granted in India.
- **09 Utility models** granted in Germany.
- **20 Design patents** granted in UK.
- **15 design patents** granted in India.
- Attended **>75 National and International** Conferences with Keynotes, Invited talks and Oral presentations.
- Resource person for **52 National and International** Workshops /Seminars/ Webinars.
- Total **Citations >11,000**; Total **i10 index = 150**; **h-index = 58**.
- Recognized **reviewer** for many SCI peer-reviewed high impact journals.
- **Editorial board member** of some research journals.
- **Top 2% Scientist** of the world for the last 6 years - Stanford and Elsevier.
- **Visiting Professor** to Al-Farabi Kazakh National University (QS rank 150).
- **Visiting Professor** to University of Science and Technology, Beijing, China.

## *List of Publications Year Wise*

### 2026:

1. Chandrabhan Verma, **Ambrish Singh**, Akram Alfantazi, Benzopyran derivatives as polydentate chelating corrosion inhibitors: Natural products-based  $\sigma$ -donors and  $\pi$ -acceptor ligands, *Coordination Chemistry Reviews*, 548 (2026) 217191.  
ISSN: 0010-8545 **(Impact Factor = 23.5)**
2. Yuhao Song, Pengjie Wang, Zijie Tang, Si Duan, Kashif Rahmani Ansari, **Ambrish Singh**, Xiangwei Kong, Yuanhua Lin, Mohd Talha, Ye Peng, oward 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)**

3. 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)

4. 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)

## 2025:

5. 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)

6. 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)

7. 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)

8. 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)

9. 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)

10. 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)**

11. Kashif R. Ansari, **Ambrish Singh**, Abdullah K. Alanazi, Ashutosh Tripathi, Farhat Aisha Ansari, Argimbayeva Akmara, Bakhytzhany 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)**

12. Reshma 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)**

13. 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)**

14. 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)**

15. 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)**

16. 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)**

17. 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)**

18. 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<sub>2</sub>+H<sub>2</sub>S 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)**

19. 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)**

20. 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)**

21. 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<sub>3</sub>CCOOH 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)**

22. 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)**

23. 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:**

24. 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)
25. **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)
26. 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)
27. 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)
28. 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)
29. 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<sub>2</sub>SO<sub>4</sub> solution interface: Experimental and surface investigations, Materials Today Communications, (2024) 109698. ISSN: 2352-4928 (Impact Factor = 3.7)

**30.** Pengjie Wang, Yuhao Song, Lin Fan, Zhonghui Li, Kashif R. Ansari, Mohd 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)**

**31.** 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)**

**32.** **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)**

**33.** Pooja Bedi, Diksha Chaudhary, Reshma 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)**

**34.** Yin Caihong, **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Brahim EL Ibrahim, 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)**

**35.** **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)**

**36.** **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)**

**37.** 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)**

38. 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:**

39. **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)

40. **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)

41. **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)

42. **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)

43. 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)

44. **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Brahim EL Ibrahimi, Neeta Raj Sharma, Anu Bansal, Abdullah K. Alanazi, Muhammad Younas, Aeshah H. Alamri, Yuanhua Lin, Heteroatomic organic compound as a novel corrosion inhibitor for

carbon steel in sulfuric acid: Detail experimental, surface, molecular docking and computational studies, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 673 (2023) 131692. ISSN: 2213-2929 (**Impact Factor = 5.200**)

45. **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Yuanhua Lin, Manilal Murmu, Priyabrata Banerjee, Evaluation of corrosion mitigation properties of pyridinium-based ionic liquids on carbon steel in 15% HCl under the hydrodynamic condition: Experimental, surface, and computational approaches, Journal of Molecular Liquids, 376 (2023) 121408. ISSN: 0167-7322 (**Impact Factor = 6.000**)

46. **Ambrish Singh**, Kashif R. Ansari, Neeta Raj Sharma, Shivani Singh, Rahul Singh, Anu Bansal, Ismat H. Ali, Muhammad Younas, Abdullah K. Alanazi, Yuanhua Lin, Corrosion and bacterial growth mitigation in the desalination plant by imidazolium based ionic liquid: Experimental, surface and molecular docking analysis, Journal of Environmental Chemical Engineering, 11 (2023) 109313. ISSN: 0927-7757 (**Impact Factor = 7.700**)

47. **Ambrish Singh**, Kashif R. Ansari, Ismat H. Ali, Muhammad Younas, Bhavana Gupta, Inhibition of hydrogen evolution and corrosion protection of negative electrode of lead-acid battery by natural polysaccharide composite: Experimental and surface analysis, Journal of Energy Storage, 57 (2023) 106272. ISSN: 2352-1538 (**Impact Factor = 9.400**)

48. **Ambrish Singh**, Kashif R. Ansari, Pooja Bedi, Tanay Pramanik, Ismat H. Ali, Yuanhua Lin, Priyabrata Banerjee, Sanjukta Zamindar, Understanding of xanthone derivatives as a novel and efficient corrosion inhibitor for P110 steel in acidizing fluid: Experimental and theoretical studies, Journal of Physics and Chemistry of Solids, 172 (2023) 111064. ISSN: 0022-3697 (**Impact Factor = 4.000**)

49. Qiao Zhang, Lei Guo, Yue Huang, Renhui Zhang, Alessandra Gilda Ritacca, Senlin Leng, Xingwen Zheng, Yingchang Yang, **Ambrish Singh**, Influence of an imidazole-based ionic liquid as electrolyte additive on the performance of alkaline Al-air battery, Journal of Power Sources, 564 (2023) 232901. ISSN: 0378-7753 (**Impact Factor = 9.794**)

50. Wenlong Song, Xin Wang, Tian Hou, Xiaoshan Li, Yue Yu, Xiaoran Sun, **Ambrish Singh**, Meng Zhang, Formate additive for efficient and stable methylammonium-free perovskite solar cells by gas-quenching, Chemistry-A European Journal, (2023). ISSN: 1521-3765 (**Impact Factor = 5.001**)

## **2022:**

**51.** Wenlong Song, Xia Dayu, Liu Mingxing, K. R. Ansari, **Ambrish Singh**, Insight into the anti-corrosion performance of synthesized novel nano polymeric material of SiO<sub>2</sub> for the protection of J55 steel in 3.5 wt% NaCl solution saturated with carbon dioxide, Journal of Natural Gas Science and Engineering, 106 (2022) 104758. ISSN: 1875-5100 (**Impact Factor = 5.285**)

**52.** **Ambrish Singh**, K. R. Ansari, Yuanhua Lin, Ismat H. Ali, Savaş Kaya, Brahim El Ibrahimi, Inhibitive performance of novel/eco-friendly pyrimidine derivative for Q235 steel protection in 15% HCl under hydrodynamic condition: Combination of experimental, surface and computational approach, Materials Today Communications, <https://doi.org/10.1016/j.mtcomm.2022.104110>, (2022) 104110 ISSN: 2352-4928 (**Impact Factor = 3.662**)

**53.** Yin Caihong, **Ambrish Singh**, K.R. Ansari, Ismat H. Ali, Raman Kumar, Novel nitrogen based heterocyclic compound as Q235 steel corrosion inhibitor in 15% HCl under dynamic condition: A detailed experimental and surface analysis, Journal of Molecular Liquids, 362 (2022) 119720. ISSN: 0167-7322 (**Impact Factor =6.000**)

**54.** Xia Dayu, Liu Mingxing, K. R. Ansari, **Ambrish Singh**, Synthesis of novel nano polymeric composite of zinc oxide and its application in corrosion inhibition of tubular steel in sweet corrosive medium, Journal of Molecular Liquids, 359 (2022) 119327. ISSN: 0167-7322 (**Impact Factor =6.000**)

**55.** **Ambrish Singh**, K.R. Ansari, Ismat H. Ali, Yuanhua Lin, Brahim El Ibrahimi, Lahcen Bazzi, Combination of experimental, surface and computational insight into the corrosion inhibition of pyrimidine derivative onto Q235 steel in oilfield acidizing fluid under hydrodynamic condition, Journal of Molecular Liquids, 353 (2022) 118825. ISSN: 0167-7322 (**Impact Factor =6.000**)

**56.** **Ambrish Singh**, K.R. Ansari, Abdullah K. Alanazi, M.A. Quraishi, Priyabrata Banerjee, Biological macromolecule as an eco-friendly high temperature corrosion inhibitor for P110 steel under sweet environment in NACE brine ID196: Experimental and computational approaches, Journal of Molecular Liquids, 345 (2022) 117866. ISSN: 0167-7322 (**Impact Factor =6.000**)

**57.** **Ambrish Singh**, K.R. Ansari, Abdullah K. Alanazi, M. A. Quraishi, Ismat H. Ali, Yuanhua Lin, Probing inhibition effect of novel biopolymer-based composite for the inhibition of P110 steel corrosion in 15% HCl under dynamic condition, Sustainable Chemistry and Pharmacy, 26 (2022) 100599. ISSN: 2352-5541 (**Impact Factor =5.464**)

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**2021:**

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## 2010:

194. M.A. Quraishi, **Ambrish Singh**, Vinod Kumar Singh, Dileep Kumar Yadav, Ashish Kumar Singh "Green approach to corrosion inhibition of mild steel in hydrochloric acid and sulphuric acid solutions by the extract of *Murraya koenigii* leaves". **Materials Chemistry and Physics**, (2010), 122, 114-122. ISSN: 0254-0584 (Impact Factor = 4.094 )

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## CONFERENCES

### ORAL PRESENTATIONS

1. **Ambrish Singh** , M. A. Quraishi , Vinod Kumar Singh , Dilip Kumar Yadav , "Green approach to corrosion inhibition of mild steel in hydrochloric acid solution by the extract of *Andrographis paniculata*", CORCON 2010, organized by NACE International at Hotel Lalit Intercontinental, Concan, Goa, between 21-24 September.
2. **Ambrish Singh**, M. A. Quraishi, "Azwain as green inhibitor for aluminium in NaOH solution", ISCA-2011, organized by International Science Congress at MRSC, Indore, M.P. between 24-25 December.
3. **Ambrish Singh**, M. A. Quraishi, " Palasha leaves as green inhibitor for mild steel in HCl solution", NCCI-2012, organized by National Council for Corrosion at Suresh Neotia Research Centre, Salt lake, Kolkata between 24-26 August.
4. **Ambrish Singh** "Some plant extracts as corrosion inhibitor for mild steel in HCl solution", BVS-2012, organized by Lovely Professional University, Punjab, between 10-13 October.
5. **Ambrish Singh**, Y. Lin, "Berberine as an effective corrosion inhibitor for P110SS steel in 3.5% NaCl solution saturated with CO<sub>2</sub>," SINOCORR-2014, organized by NACE between 19-22 May in Beijing International Convention Centre, Beijing, China.
6. **Ambrish Singh**, Y. Lin, "Poly(methylmethacrylate-co-N-vinyl-2-pyrrolidone) polymer as an effective corrosion inhibitor for N80 steel in 3.5% NaCl solution saturated with CO<sub>2</sub>," CORCON-2014, organized by NACE between 12-15 November in Hotel Grand Hyatt, Mumbai, India.

7. **Ambrish Singh**, Y. Lin, "Macrocyclic compound as an effective corrosion inhibitor for N80 steel in 3.5% NaCl solution saturated with CO<sub>2</sub>," ICASS-2015, organized by ELSEVIER between 27-30 July, in Riverside Oriental Hotel, Shanghai, China.

8. **Ambrish Singh**, Y. Lin, "Thiourea formaldehyde as an effective corrosion inhibitor for N80 steel in 3.5% NaCl solution saturated with CO<sub>2</sub>," Corrosion and Prevention-2015, organized by ACA between 15-18 November, in Adelaide Convention Center, Adelaide, SA, Australia.

9. **Ambrish Singh**, "Electrochemical and static HPHT study of Porphyrin derivatives as effective corrosion inhibitor for N80 and J55 steel in sweet corrosion environment," Eurocorr-2016, Organized by NACE between 11-14 September, in Convention Center, Montpellier, France.

10. **Ambrish Singh**, Polymers as an effective inhibitor for steels in petroleum industries: Surface and theoretical studies, EMN-2017, between 13-17 September, in Hotel Crown Plaza, Auckland, New Zealand.

11. **Ambrish Singh**, "HPHT Autoclave, electrochemical, surface and quantum chemical studies to investigate a polymer as corrosion inhibitor for N80 steel in sweet corrosive environment," Eurocorr-2017, organized by NACE between 3-7 September, in Prague Congress Center, Prague, Czech Republic.

12. **Ambrish Singh**, "High pressure high temperature and electrochemical study of some corrosion inhibitors on N80 steel in sweet corrosive media," Corrosion and Prevention-2017, organized by ACA between 12-15 November, in International Convention Center, Sydney, Australia.

13. **Ambrish Singh**, "A comparison of corrosion effectiveness between some synthesized inhibitors and plant extracts on J55 steel in sweet corrosive environment," Eurocorr-2018, organized by NACE between 9-13 September, in ICE Krakow, Poland.

14. **Ambrish Singh**, "Electrochemical and theoretical studies to investigate some corrosion mitigators on J55 steel in NaCl solution," EuCheMS-2018, organized by RSC between 26-30 August, in International Convention Center, Liverpool, United Kingdom.

15. **Ambrish Singh**, "Macrocyclic inhibitor for corrosion of N80 steel in 3.5% NaCl solution saturated with CO<sub>2</sub>," CMSE-2018, organized by SMSE Xian, between 1-4 November, in Hotel Shaanxi Hua Fu Gong, Xian, China.

16. **Ambrish Singh**, "The comparison of synthesized inhibitors with commercial inhibitor for corrosion of N80 steel in 15% HCl solution," Chinacorr-2018, organized by NACE between 4-6 December, in Hotel CNPC, Beijing, China.

17. **Ambrish Singh**, "HPHT Autoclave, Electrochemical, Surface and Quantum Chemical Studies to Investigate Some Inhibitors for Corrosion of N80 Steel in Sweet Corrosive

Environment," 106<sup>th</sup> ISC-2019, organized by ISCA between 3-7 January, in Lovely Professional University, Phagwara, Punjab, India.

18. **Ambrish Singh**, "Pyran derivatives as acidizing corrosion inhibitors for N80 steel in hydrochloric acid: Theoretical and experimental approaches," Corrosion-2019, organized by NACE between 24-28 March, in Music center, Nashville, USA.
19. **Ambrish Singh**, "Pyran derivatives as acidizing corrosion inhibitors for N80 steel in sweet corrosive media: Theoretical and experimental approaches," Corrosion Oil and Gas-2019, organized by NACE between 22-24 May, in Saint Petersburg, Russia.
20. **Ambrish Singh**, "Pyran derivatives as acidizing corrosion inhibitors for N80 steel in sweet corrosive media: Theoretical and experimental approaches," 3<sup>rd</sup> International conference on Applied Surface Science-2019, organized by Elsevier between 17-20 June, in Pisa, Italy.
21. **Ambrish Singh**, "A comparison of synthesized corrosion inhibitors with commercial oilfield inhibitor in 15% HCl solution for N80 tubing steel", Eurocorr-2019, organized by NACE between 9-13 September, in Seville, Spain.
22. **Ambrish Singh**, INVITED TALK On "New and Effective Corrosion Inhibitors in Sweet Corrosive Environment," 107<sup>th</sup> Indian Science Congress held at University of Agricultural Sciences, Bangalore, organized by ISCA between 3-7 January, 2020, in Bangalore, India.
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 1<sup>st</sup> 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	Green corrosion

			person in the Seminar	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
Of 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	978-1-771-88602-4	Co-Editor	2022

	Francis			
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
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