Curriculum Vitae

Prof. (Dr.) AMBRISH SINGH

Professor

DOB: 07/09/1985

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

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Research Accomplishments:

➢ **Total Citations = 9816; Total i10 index = 135; h-index = 55.**
➢ **Top 2% Scientist** of the world for the last **5 years- Stanford and Elsevier.**
➢ **First ever research article** during my Ph.D. is one of the **most cited articles in Materials Chemistry and Physics journal with more than 630 citations.**
➢ **Published >175 SCI research papers in high impact peer-reviewed journals.**
➢ **Six International patents** granted in **China and South Africa. 13 granted in India. 15 Design patents (UK, India) and 09 Utility Models (Germany) have also been granted. 1 Copyright also granted in India.**
➢ **Attended >65 National and International Conferences with Invited talks and Oral presentations.**
➢ **Resource person for 32 National and International Workshops /Seminars/ Webinars.**
➢ **Visiting Professor to Al Farabi National Kazakh University, Almaty, Kazakhstan.**
➢ **Visiting Professor to University of Science and Technology, Beijing, China.**

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,** 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.

Awards:

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 Post Doctoral 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 4 national and international projects as PI and 9 projects as Co-PI.
- 1 Consultancy completed for KFUPM, Saudi Arabia.

Research Interests:

Development and testing of various natural compounds as Corrosion inhibitors, Corrosion prevention techniques and phenomenon, Computational Chemistry, Theoretical Chemistry, Green Chemistry, Polymers/Biopolymers, Nano-materials, Composites, Materials Science and Engineering, Alloys, Petroleum Engineering, Electrochemical measurements and synthesis of compounds.

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)

List of Publications:

List of Publications Year Wise

2025:

1. 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 = 20.600)**

2024:

2. 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 = 20.600)**

3. **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)**
4. 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)**
5. 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)**
6. 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)**
7. 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 (2024) 139978. ISSN: 0022-2860 **(Impact Factor = 4.0)**
8. 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)**
9. 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)**

10. 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)**
11. **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)**
12. 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)**
13. 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)**
14. **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)**
15. **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)**

2023:

16. **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)**

17. **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)**
18. **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)**
19. **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)**
20. 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)**
21. **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)**
22. **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)**
23. **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)**

24. **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)**
25. **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)**
26. 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)**
27. 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:

28. Wenlong Song, Xia Dayu, Liu Mingxing, K. R. Ansari, **Ambrish Singh**, Insight into the anti-corrosion performance of synthesized novel nano polymeric material of SiO2 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)**
29. **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)**

30. 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)**
31. 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)**
32. **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)**
33. **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)**
34. **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)**
35. Shivani Singh, Rahul Singh, Neeta Raj Sharma, **Ambrish Singh**, Extract from *Clarias batrachus* Fins as Environmental Benign Corrosion Inhibitor for Mild Steel in Acidic Solution, International Journal of Electrochemical Science, (2022) doi: 10.20964/2022.03.31. 1452-3981 **(Impact Factor = 1.765)**

2021:

36. **Ambrish Singh**, Pooja Bedi, K.R. Ansari, Tanay Pramanik, Diksha Chaudhary, Soumava Santra, Abdullah K. Alanazi, Suvadra Das, M.A. Quraishi, Yuanhua Lin, Savaş Kaya, Brahim El Ibrahimi, Inhibition effect of newly synthesized benzoxanthones derivative on hydrogen evolution and Q235 steel corrosion in 15% HCl under hydrodynamic condition: Combination of experimental, surface

and computational study, International Journal of Hydrogen Energy, 46 (2021) 37995-38007. ISSN: 0360-3199 **(Impact Factor = 7.139)**

37. Ekemini Ituen, **Ambrish Singh,** Lin Yuanhua, Onyewuchi Akaranta, Biomass-mediated synthesis of silver nanoparticles composite and application as green corrosion inhibitor in oilfield acidic cleaning fluid, Cleaner Engineering and Technology, 3 (2021) 100119. ISSN: 2666-7908 **(Impact Factor = 9.297)**
38. **Ambrish Singh,** K.R. Ansari, Priyabrata Banerjee, Manilal Murmu, M.A. Quraishi, Yuanhua Lin, Corrosion inhibition behavior of piperidinium based ionic liquids on Q235 steel in hydrochloric acid solution: Experimental, density functional theory and molecular dynamics study, Colloids and Surfaces A: Physicochemical and Engineering Aspects, 623 (2021) 126708. ISSN: 0927-7757, **(Impact Factor = 5.518)**
39. **Ambrish Singh,** K.R. Ansari, M.A. Quraishi, Savaş Kaya, Sultan Erkan, Chemically modified guar gum and ethyl acrylate composite as a new corrosion inhibitor for reduction in hydrogen evolution and tubular steel corrosion protection in acidic environment, International Journal of Hydrogen Energy, 46 (2021) 9452-9465. ISSN: 0360-3199 **(Impact Factor = 7.200)**
40. Ekemini Ituen, Lin Yuanhua, **Ambrish Singh**, Ruiyun Li, Chemical modification of waste Allium cepa peels to Cu-complex composite and application as eco environmental oilfield anticorrosion additive, Journal of King Saud University - Engineering Sciences, 33 (2021) 375-385. ISSN: 1018-3639 **(Impact Factor = 0000)**
41. M. Liu, D. Xia, **Ambrish Singh,** Y. Lin, Analysis of the anti-corrosion performance of dextrin and its graft copolymer on j55 steel in acid solution, Processes, 9 (2021) 1642. ISSN: 2227-9717 **(Impact Factor = 2.847)**
42. E. Ituen, **Ambrish Singh,** Y. Lin, O. Akaranta, Green synthesis and anticorrosion effect of Allium cepa peels extract-silver nanoparticles composite in simulated oilfield pickling solution, SN Applied Sciences, 3 (2021) 679. Electronic ISSN-2523-3971**(Impact Factor = 0000)**
43. S. Yadav, A. Asthana, **Ambrish Singh,** A.K. Singh, S.A.C. Carabineiro, Methionine-functionalized graphene oxide/sodium alginate bio-polymer nanocomposite hydrogel beads: Synthesis, isotherm and kinetic studies for an adsorptive removal of fluoroquinolone antibiotics, Nanomaterials, 11 (2021) 1–25. DOI: 10.3390/nano11030568. ISSN: 2079-4991 **(Impact Factor = 5.076)**
44. I.B. Onyeachu, D.S. Chauhan, M.A. Quraishi, I.B. Obot, **Ambrish Singh**, (E)-2-amino-7-hydroxy-4-styrylquinoline-3-carbonitrile as a novel inhibitor for oil and gas industry:

influence of temperature and synergistic agent, Journal of Adhesion Science and Technology, (2021). ISSN: 2079-4991 **(Impact Factor = 2.077)**

45. Shivani Singh, Rahul Singh, Neeta Raj Sharma, **Ambrish Singh**, Ethanolic Extract of Cockroach Wing Powder as Corrosion Inhibitor for N80 Steel in an ASTM D1141-98(2013) Standard Artificial Seawater Solution, International Journal of Electrochemical Science, 16 (2021) Article ID: 210841, doi: 10.20964/2021.08.43. ISSN: 1452-3981 **(Impact Factor = 1.765)**

2020:

46. **Ambrish Singh**, K.R. Ansari, Dheeraj Singh Chauhan, M.A. Quraishi, H. Lgaz, Ill-Min Chung, Comprehensive investigation of steel corrosion inhibition at macro/micro level by ecofriendly green corrosion inhibitor in 15% HCl medium, Journal of Colloid and Interface Science, 560 (2020) 225–236. ISSN: 0021-9797 **(Impact Factor = 9.965)**
47. **Ambrish Singh,** K.R. Ansari, M.A. Quraishi, Priyabrata Banerjee, Corrosion inhibition and adsorption of imidazolium based ionic liquid over P110 steel surface in 15% HCl under static and dynamic conditions: Experimental, surface and theoretical analysis, Journal of Molecular Liquids, 323 (2021) 114608. ISSN: 0167-7322 **(Impact Factor = 6.633)**
48. **Ambrish Singh,** Xia Dayu, Ekemini Ituen, Kashif Ansari, M.A. Quraishi, Savas Kaya, Yuanhua Lin, Tobacco extracted from the discarded cigarettes as an inhibitor of copper and zinc corrosion in an ASTM standard D1141-98(2013) artificial seawater solution, Journal of Materials Research and Technology, 9 (2020) 5161–5173. ISSN: 2238-7854 **(Impact Factor =6.267)**
49. **Ambrish Singh**, Hazem Samih Mohamed, Shivani Singh, Hua Yu, Yuanhua Lin, Corrosion inhibition using guar gum grafted 2-acrylamido-2-methylpropanesulfonic acid (GG-AMPS) in tubular steel joints, Construction and Building Materials, 258 (2020) 119728. ISSN: 0950-0618 **(Impact Factor = 7.693)**
50. **Ambrish Singh**, Kashif R. Ansari, Ekemini Ituen, Lei Guo, Md Abdul Wahab, M.A. Quraishi, Xiangwei Kong, Yuanhua Lin, A new series of synthesized compounds as corrosion mitigator for storage tanks: Detailed electrochemical and theoretical investigations, Construction and Building Materials, 259 (2020) 120421. ISSN: 0950-0618 **(Impact Factor = 7.693)**
51. **Ambrish Singh**, K.R. Ansari, M.A. Quraishi, Inhibition effect of natural polysaccharide composite on hydrogen evolution and P110 steel corrosion in 3.5 wt% NaCl solution saturated with CO_2: Combination of experimental and surface

analysis, International Journal of Hydrogen Energy, 45, (2020), 25398-25408. ISSN: 0360-3199 **(Impact Factor = 7.139)**

52. **Ambrish Singh**, K.R. Ansari, M.A. Quraishi, Savas Kaya, Lei Guo, Aminoantipyrine derivatives as a novel eco-friendly corrosion inhibitors for P110 steel in simulating acidizing environment: Experimental and computational studies, Journal of Natural Gas Science and Engineering, 83 (2020) 103547. ISSN: 1875-5100 **(Impact Factor = 5.285)**
53. **Ambrish Singh**, K. R. Ansari, M. A. Quraishi, Chondroitin sulfate as a green corrosion inhibitor for zinc in 26% ammonium chloride solution: Electrochemical and surface morphological analysis, Colloids and Interfaces A: Physicochemical and Engineering Aspects, 607, (2020), 125465. ISSN: 0927-7757, **(Impact Factor = 5.518)**
54. **Ambrish Singh**, Mingxing Liu, Ekemini Ituen, Yuanhua Lin, Anti-Corrosive Properties of an Effective Guar Gum Grafted 2-Acrylamido-2-Methylpropanesulfonic Acid (GG-AMPS) Coating on Copper in a 3.5% NaCl Solution, Coatings, 10 (2020) 241. ISSN: 2079-6412, **(Impact Factor = 2.881)**
55. **Ambrish Singh**, K.R. Ansari, M. A. Quraishi, Savas Kaya, Theoretically and experimentally exploring the corrosion inhibition of N80 steel by pyrazol derivatives in simulated acidizing environment, Journal of Molecular Structure, 1206 (2020) 127685. ISSN: 0022-2860 **(Impact Factor = 3.841)**
56. **Ambrish Singh**, K.R. Ansari, Dheeraj Singh Chauhan, M.A. Quraishi, Savas Kaya, Anti-corrosion investigation of pyrimidine derivatives as green and sustainable corrosion inhibitor for N80 steel in highly corrosive environment: Experimental and AFM/XPS study, Sustainable Chemistry and Pharmacy, 16 (2020) 100257. ISSN: 2352-5541 **(Impact Factor = 5.464)**
57. Peng Su, Lintao Li, Weiliang Li, Chuanyan Huang, Xiaohong Wang, Hao Liu, **Ambrish Singh**, Expired Drug Theophylline as Potential Corrosion Inhibitor for 7075 Aluminium Alloy in 1M NaOH Solution, International Journal of Electrochemical Science, 15 (2020) 1412 – 1425. ISSN: 1452-3981 **(Impact Factor = 1.765)**
58. Ekemini Ituen, **Ambrish Singh**, Riyun Li, Lin Yuanhua, Changyong Guo, Nanostructure, surface and anticorrosion properties of phyto-fabricated copper nanocomposite in simulated oilfield descaling fluid, Surfaces and Interfaces, 19, (2020), 100514. ISSN: 2468-0230 **(Impact Factor = 6.137)**
59. Ekemini Ituen, **Ambrish Singh**, Lin Yuanhua, Inhibitive effect of onion mesocarp extract-nickel nanoparticles composite on simultaneous hydrogen production and

pipework corrosion in 1 M HCl, International Journal of Hydrogen Energy, 45, (2020), 10814-10825. ISSN: 0360-3199 **(Impact Factor = 7.139)**

60. Ekemini Ituen, **Ambrish Singh**, Lin Yuanhua, Ruiyun Li, Synthesis and evaluation of anticorrosion properties of onion mesocarp-nickel nanocomposites on X80 steel in acidic cleaning solution, Journal of Materials Research and Technology, 9, (2020), 2832-2845. ISSN: 2238-7854 **(Impact Factor = 6.267)**

61. Ekemini Ituen, Ekere Ekemini, Lin Yuanhua, **Ambrish Singh**, Green synthesis of Citrus reticulata peels extract silver nanoparticles and characterization of structural, biocide and anticorrosion properties, Journal of Molecular Structure, 12075, (2020), 127819. ISSN: 0022-2860 **(Impact Factor = 3.196)**

62. Ekemini Ituen, Ekere Ekemini, Lin Yuanhua, Ruiyun Li, **Ambrish Singh**, Mitigation of microbial biodeterioration and acid corrosion of pipework steel using Citrus reticulata peels extract mediated copper nanoparticles composite, International Biodeterioration & Biodegradation, 149 (2020), 104935. ISSN: 0964-8305 **(Impact Factor = 4.320)**

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ORAL PRESENTATIONS

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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_2," 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_2"," 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_2"," 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_2"," 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-

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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_2," CMSE-2015, 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," 106th 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," 3rd 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," 107th 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.
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.

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 HNO3	Phytochemistry in Corrosion Science, CRC Press, Taylor and Francis publications	Co-Author	2024
12.	Plant extracts as corrosion inhibitors for brass in KOH and NH4OH 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