


**Associate Professor
Dr. Hari Om**

hariom.chem@mdurohtak.ac.in
Phone : +91-1262-393131 (Off.)
Mob. No. 9416957922



Academic Societies/Associations affiliated

 Life Member of Indian Science Congress Association (**ISCA**)

Active in Research fields:

Thin films
Thermodynamics
Corrosion studies

A) Educational qualifications

Degree	Year of passing	University/ Institute
Ph.D	2007	M. D. University, Rohtak, Haryana
M.Sc.	2000	M. D. University, Rohtak, Haryana
B.Sc	1996	M. D. University, Rohtak, Haryana

B) Career profile							
Designation	Institute served			From		To	
Lecturer (Assistant Professor)	NC college of Engineering & Technology, Israna, Panipat			Sept., 2004		Jan, 2007	
	Haryana Institute of Engineering & Technology, Asodha, Jhajjar			July, 2007		May, 2008	
	MERI, Engineering College, Sampla, Rohtak			July, 2008		Nov., 2008	
	Vaish College, Bhiwani			Nov., 2008		April, 2010	
	Department of Chemistry, M.D. University, Rohtak			May, 2010		Till now	
C) Project undertaken							
Title of the project	Duration			Funding agency		Status	
Anodic oxide films on metals and alloys	2011-2014			UGC, New Delhi		Completed	

D) PUBLICATIONS

Research papers: 32

Awards and distinctions

University Research fellowship, (2001-2004) of M. D. University, Rohtak.

Assignment outside the M.D. University, Rohtak.

1. Visited Valencia, Spain under international project A New Generation of CIGS-Based Solar Cell(MC-IRSES) in 2012
2. Visited Warshaw University of Technology, Faculty of Physics, Koszykowa, Poland in 2014

RESEARCH PAPER:

1. Characterization and photoluminescence properties of some CaO, SrO and CaSrO₂ phosphors co-doped with Eu³⁺ and alkali metal ions, B. Marí K.C. Singh, Monica Moya, Ishwar Singh, **Hari Om**, Subhash Chand, Optical Materials, 34, **2012**, 1267–1271
2. Excess Molar Enthalpies of mixing of sec- or tert- butyl chloride with aromatic hydrocarbons at temperature 308.15 K, Journal of Chemical, Biological and Physical science, Naveen Verma, **Hari Om**, Krishan Chander Singh, Journal of Chemical, Biological and Physical science, Vol.2, **2012**, Sec A, No. 4, 1736-46
3. High field ionic conduction in anodic oxide films on tantalum in aqueous electrolytes, **Hari om**, Naveen Verma, Krishan Chander Singh, European Journal of Applied Engineering and Scientific Research, 2, **2013**, 25-35
4. Preparation and luminescence properties of MZrO₃:Eu³⁺, A (M=Ca²⁺, Ba²⁺; A=Li⁺, Na⁺, K⁺) phosphors with perovskite structure, Marí, B., Cembrero-Coca, P., Singh, K.C., Kaushik, R.D., **Om, H**, ActaPhysico – Chimica Sinica, 29, **2013**, 1357-1362
5. Ultrasonic studies of molecular interactions in binary mixtures of formamide with some isomers of butanol at 298.15K and 308.15K, Manju Rani, Suman Gahlyan, **Hari Om**, Naveen Verma, Sanjeev Makin, Journal of Molecular Liquids, 194, **2014**, 100-109.
6. Fabrication of Porous Anodic Alumina by Two Step Anodic Oxidation and Photo Luminescent Properties of doped and undoped Alumina, Naveen Verma, Krishan Chander Singh, Bernabe Mari, **Hari Om**, Jitender Jindal, Chem Sci Rev Lett, 3, **2014**, 597-602
7. Hexamine as Corrosion Inhibitor for Mild Steel in Acidic Medium, Harish Kumar, **Hariom**, Pradeep Kumar, Vikas and Anjoo, Elixir Corrosion & Dye ,97, **2016**, 42060-42065

8. Corrosion inhibition of mild steel by using Hexylamine as corrosion inhibitor in acidic medium, **Hariom**, Harish Kumar, Pradeep Kumar, Vikas and Anjoo Bala, Der Pharma Chemica, 8, **2016**, 268-278
9. Corrosion Inhibition of carbon steel by an Isatin Schiff base in acidic medium, Hariom, Anjoo Bala, Harish Kumar, Vikas and Pradeep Kumar, Der Pharma Chemica, **2016**, 8(12):149-156
10. Inhibition of Mild Steel Corrosion in 1.0M HCl Solution by Octadecylamine as Corrosion Inhibitor, Pradeep Kumar, Harish Kumar, Vikas, **Hariom**, Der Pharma Chemica, 9, **2017**, 100-108.
11. Corrosion Inhibition for Mild Steel in Acidic Medium by Using Hexadecylamine as Corrosion Inhibitor, Pradeep Kumar, Vikas Kalia, Harish Kumar, **Hariom Dahiya**, Chemical Science Transactions, 6, **2017**, 2278-3458.
12. Isatin Schiff Base as an Eco friendly Corrosion Inhibitor for Carbon Steel in 1M HCl, Anjoo Bala, Pradeep Kumar, Vikas, **Hariom**, Der Pharma Chemica, 9, **2017**, 92-99
13. Synthesis, biological evaluation and corrosion inhibition studies of transition metal complexes of Schiff base, Chemistry Central Journal, Chemistry Central Journal, 2018, 117
14. Corrosion Inhibition Study of Dodecylamine as long Chain Amine Corrosion Inhibitor for Mild Steel in Hydrochloric Acid Solution, IJSRSET Vikas, Pradeep Kumar, Gobind Goyat, Suresh Kumar, Hari Om, 3 (**2018**), 732-743
15. Schiff base as green corrosion inhibitor for carbon steel in 1M Hydrochloric acid solutions, International Journal of Advance Science and Research Anjoo Bala, Vikas, Gobind Goyat, Suresh Kumar, * Hari Om, 3 (**2018**), 115-122
16. Experimental Investigation of Isatin Schiff base as Corrosion Inhibitor for Carbon Steel in 1MHCl, IJSRSET, Anjoo Bala*, Vikas, Gobind Goyat, Suresh Kumar, Hari Om, 4 (**2018**), 744-754
17. Study of corrosion inhibition properties of Tetradecylamine for mild steel in 1.0 M HCl solution, International Journal of Advance Science and Research Vikas, Pradeep Kumar, Anju Malik, Suresh Kumar, Anjoo Bala,* Hariom, 3 (**2018**), 129-136
18. Synthesis, characterization and anticorrosive effect of 2-(phenoxy methyl)-5-phenyl-1, 3, 4-oxadiazole for mild steel in 1 M HCl: A combined experimental and computational demonstrations, May **2022**, 100421.
19. Synthesized oxadiazole derivatives as benign agents for controlling mild steel dissolution: Experimental and theoretical approach, VikasKalia, PradeepKumar, SureshKumar, Priti Pahuja GauravJhaa, SumanLata, HariomDahiya, Journal of Molecular Liquid, 313 (**2020**) 113601
20. Corrosion inhibition and adsorption studies of Ammonium oxalate for mild steel by computational and experimental techniques: A sustainable approach, December **2021**, 100785.
21. Newly synthesized oxadiazole derivatives as corrosion inhibitors for mild steel in acidic medium: Experimental and theoretical approaches, **Suresh Kumar**, Vikas Kalia,

- Madhusudan Goyal, Gaurav Jhaa, Sudershan Kumar, Hemlata Vashisht, Hariom Dahiya, M. A. Quraishi, Chandrabhan Verma, Journal of Molecular Liquid. Journal of Molecular Liquids 357 (2022) 119077
22. Synthesis, characterization and corrosion inhibition potential of oxadiazole derivatives for mild steel in 1M HCl: Electrochemical and computational studies, Vikas Kalia, Pradeep Kumar, Suresh Kumar, Madhusudan Goyal, Priti Pahuja, Gaurav Jhaa, Suman Lata, Hariom Dahiya, Sudershan Kumar, Anita Kumari, Chandrabhan Verma. Journal of Molecular Liquid, 348 (2022), 118021
 23. Corrosion Inhibitive Properties of 5-(4-Aminophenyl)-1,3,4-oxadiazole-2-thiol and 5-(4-Methylphenyl)-1,3,4-oxadiazole-2-thiol on Mild Steel in 1.0 M HCl Solution, Vikas Kalia, Pradeep Kumar, Suresh Kumar and Hariom Dahiya, Asian Journal of Chemistry; Vol. 33, No. 12 (2021), 2953-2964
 24. Newly synthesized oxadiazole derivatives as corrosion inhibitors for mild steel in acidic medium: Experimental and theoretical approaches, Suresh Kumar, Vikas Kalia, Madhusudan Goyal, Gaurav Jhaa, Sudershan Kumar, Hemlata Vashisht, Hariom Dahiya, M. A. Quraishi, Chandrabhan Verma, Journal of Molecular Liquid. (2022)
 25. Study of anticorrosive action and synthesis of 2-(phenoxyethyl)-5-p-tolyl-1,3,4-oxadiazole in 1M Hydrochloric acid medium for mild steel, Suresh Kumar, Vikas Kalia, Hariom Dahiya, Asian Journal of Chemistry, 34 (2022), 597-606
 26. Evaluating the adsorption and corrosion inhibition capabilities of Pyridinium - P - Toluene Sulphonate on MS in 1 M HCl medium: An experimental and theoretical study Humira Assada, Suresh Kumar, Sourav Kr. Sahac, Namhyun Kangc, Ishrat Fatmaa, Hariom Dahiya, Praveen Kumar Sharma, Abhinay Thakura, Shveta Sharma, Richika Ganjoo, Ashish Kumare, Inorganic Chemistry Communications, 153 (2023) 110817
 27. Highly efficient green corrosion inhibitor for mild steel in sulfuric acid: Experimental and DFT approach Harish Kumara*, Pooja Yadava, Rajni Kumaria, Rahul Sharma, Saloni Sharma, Devender Singhb, Hariom Dahiya, Parvin Kumarc, Santosh Bhardwajd, Pawanvir Kaur, Colloids and Surfaces A: Physicochemical and Engineering Aspects 675 (2023) 132039.
 28. Effective corrosion inhibition of mild steel using novel 1,3,4-oxadiazole-- pyridine hybrids: Synthesis, electrochemical, morphological, and computational insights Deepak Sharma, Abhinay Thakurb, Manish Kumar Sharma, Renu Sharma, Suresh Kumar, Ashish Sirmard, Hariom Dahiya, Gaurav Jhae, Ashish Kumarf, Ashok Kumar Sharma, **, Hari Oma,* Environmental Research 234 (2023) 116555.

29. Comprehensive investigations of the synergistic effect of chalcone on the anti-corrosion activity of environmentally benign triazole hybrid, Manish Kumar Sharma a, Sonia Parashar b, Deepak Sharma a, Kranti Jakhar a, Ashish Sihmar c, Anand Bhardwaj d, Hariom Dahiya c, Hari Om a.
30. Synergistic experimental and computational approaches for evaluating pyrazole Schiff bases as corrosion inhibitor for mild steel in acidic medium. Renu Khanna, Vikas Kalia, Raj Kumar, Ravi Kumar, Pradeep Kumar, Hariom Dahiya, Priti Pahuja, Gaurav Jhaa, Harish Kumar, Synergistic experimental and computational approaches for evaluating pyrazole Schiff bases as corrosion inhibitor for mild steel in acidic medium, Journal of Molecular Structure, Volume 1297, Part 1, 2024
31. Electrochemical and computational insights into the utilization of 2, 2- dithio bisbenzothiazole as a sustainable corrosion inhibitor for mild steel in low pH medium. Humira Assad, Sourav Kr. Saha, Namhyun Kang, Suresh Kumar, Praveen Kumar Sharma, Hariom Dahiya, Abhinay Thakur, Shveta Sharma, Richika Ganjoo, Ashish Kumar, Electrochemical and computational insights into the utilization of 2, 2- dithio bisbenzothiazole as a sustainable corrosion inhibitor for mild steel in low pH medium, Environmental Research, Volume 242, 2024, 117640.
32. A research combined experimental and computational approaches of Succinylsulfathiazole Hydrate as potent corrosion inhibitor for mild steel in acidic medium. Humira Assad, Suresh Kumar, Sourav Kr. Saha, Namhyun Kang, Hariom Dahiya, Abhinay Thakur, Shveta Sharma, Richika Ganjoo, Ashish Kumar, Journal of Molecular Liquids, Volume 388.

Conference Attended: 15

