



RESEARCH JOURNAL OF CHEMISTRY AND ENVIRONMENT

Vol. 29(2), February 2025



JOURNAL IS INDEXED IN SCOPUS,
CHEMICAL ABSTRACTS, NAAS AND UGC

Editor-in-Chief (Hon.)
Dr. P. Shyamala, Ph.D.
Visakhapatnam, INDIA

Correspondence Address:
Research Journal of Chemistry and Environment
Sector AG/80, Scheme No. 54, Indore 452 010 (M.P.) INDIA
Mobile: +91-94250-56228

Website: <https://www.worldresearchersassociations.com>

E-mail: info@worldresearchersassociations.com

CONTENTS

| <i>Research Papers:</i> | | |
|-------------------------|---|-------|
| 1. | Ecofriendly Corrosion Inhibitor for Controlling Corrosion of CS Immersed in Hydrochloric Acid Solution - Sulochana S., John Amalraj A., Syed Abuthahir S.S., Shek Dhavud S. and Sundararajan G. | 1-11 |
| 2. | Design, synthesis, spectral characterization and antibacterial studies of transition metal complexes of benzothiophene Schiff base - Madhukar V. and Jyothi S. | 12-17 |
| 3. | Ionophore synthesis for appropriate alkali metal ion extraction and transport - Agrawal Tanisha, Hariyani Poonam, Lokwani Loni, Khandelwal Amit Kumar, Vijay Rekha and Shrivastava Barkha | 18-25 |
| 4. | Seasonal Variations of Microplastic Contamination in Surface Water of The Krishna River, Telangana - Laxmi R. and Singh Rahul | 26-36 |
| 5. | Alleviating the Detrimental Effects of Salinity Stress by Application of Potassium: Growth, Yield and Photosynthetic Parameters of Mung bean (<i>Vigna radiata</i>) (L.) Wilczek - Ibrahim Arifa, Kumar Yogesh and Jakhar Somveer | 37-44 |
| 6. | Electrochemical Resolution of Ascorbic Acid from Dopamine and Uric Acid with Montmorillonite k10-Clay/Poly (Glycine) Electrode - Prabhakar Rao V., Jeevan Jyoti P., Bhanuprakash P. and Muditana Sankara Rao | 45-54 |
| 7. | Study of symptoms, cultural characteristic and isolation of <i>Cercospora</i> species causing tikka disease of ground in Ranchi district of Jharkhand - Shahdeo Prakriti and Kumar Anil | 55-61 |
| 8. | Pharmaceutical Waste Management in Healthcare: A Comprehensive Study on Environmental Implications, Current Practices and Strategies for Sustainable Solutions - Chinnarao Menda, Ch. Ramakrishna, Umadevi Randi and Abbaraju V D N Kumar | 62-74 |
| 9. | Comparative investigation on biosorption studies for removal of Pb (II) from aqueous solution using banana peels powder and orange peels powder - Chowdhary Anju, Solanki Abhishek, Jat Ram Niwas and Gupta Vikal | 75-80 |
| 10. | Green Synthesis of Manganese-Enriched Zinc Oxide Nanoparticles via Dragon Fruit Peel Extracts and their Photocatalytic activity on Methyl Orange - Kistan A., Kanchana V., Mohan S. and Chitra M. | 81-89 |

Review Papers:

| | | |
|-----|---|---------|
| 11. | Removal of Synthetic Dyes from Textile Wastewater using Physical and Biological Methods: A Review - Saini Renu, Bansal Nidhi and Sharma Aruna | 90-100 |
| 12. | Exploring Diverse Precursors for Metal Sulfide Nanoparticle Synthesis: A Comprehensive Review - Zungu Mlungisi Malusi and Pullabhotla Viswanadha Srirama Rajasekhar | 101-110 |
| 13. | Phyto-fabrication of metal nanoparticles using Thar desert plants - Jangir B., Mochi S., Mishra A., Jangid N.K., Goel R. and Sharma A. | 111-119 |
| 14. | Biomimetics helping to design advanced environmental adsorbents - Chmielewska E. | 120-124 |

❖ EDITORIAL BOARD: P IV ❖