

VOL. 27(12), DECEMBER 2023

RESEARCH JOURNAL OF

CHEMISTRY AND ENVIRONMENT



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

**RESEARCH JOURNAL OF CHEMISTRY AND ENVIRONMENT**

An International Research Journal of Chemical Sciences and Environmental Sciences

Res. J. Chem. Environ., Volume 27(12), Pages 1-196, December (2023)

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](mailto:info@worldresearchersassociations.com)**CONTENTS**

<i>Research Papers:</i>		
1.	<b><i>In Silico</i> Study of Glyphosate Substitute against Rice Weeds as Bioherbicides Candidate</b> - Kuswati Kuswati, Fatmawati Yayuk, Narulita Erlia and Zainul Rahadian	1-11
2.	<b>Green Synthesis of N-Aryl, 2-(Chloroquinoline)-4-Thiazolidinone Derivatives using Magnetically Separable Copper Oxide Nano Particles and their Anti-Cancer Activity Studies</b> - Sangula Vara Satish and Sanasi Paul Douglas	12-23
3.	<b>Removal of Mercury (II) ions from aqueous solution by adsorption on Cicer arietinum husk: Equilibrium, Kinetic and Mechanism Studies</b> - Naidu Ahalya, Kanamadi Ravishankar and Ramachandra T.V.	24-30
4.	<b>Microwave assisted Synthesis and Characterization of Novel Acylhydrazonoximes</b> - Chavan Jotiram K. and Patil Raju M.	31-34
5.	<b>Surface Functionalized Eco-friendly Plant Seeds in the Confiscating Process of Toxic Metal ions from Aqueous Environment</b> - Preethi G. and Muthulakshmi Andal N.	35-43
6.	<b>Facile Synthesis of Polymer Capped NiO Nanoparticles, Characterization, Photocatalytic and their Antibacterial Activities</b> - Malathi S., Anantha Kumar T., Jeba Sherin R. and Mythili C.V.	44-50
7.	<b>Synthesis and Characterization of Core-Shell Mesoporous Iron oxide Magnetic Nanoparticles using Modified Co-Precipitation Method</b> - Madhu Latha Venkata Satya A. and Darwin C. Ronald	51-56
8.	<b>Utilization of Coconut Pulp as Raw Material for Bioethanol Production</b> - Sariwahyuni, Fitri Junianti and Rianti Indah Lestari	57-63
9.	<b>Enhanced Production of Microbial Lipid from <i>R. opacus</i> using Bagasse Hydrolysate</b> - Mahmood Zainab and Singh Lalit Kumar	64-75
10.	<b>Hydroxyalloxanthine Pigment from <i>Garcinia indica</i></b> - Joglekar Madhura M. and Jamkhedkar Suruchi	76-82
11.	<b>Synthesis and Characterization of Copper (II) Soap Complexes Derived from Natural Edible Oils with Substituted Benzothiazoles</b> - Meena Asha	83-89

12.	<b>Performance of Microbial fuel cell as a post treatment unit of UASB reactor for distillery spent wash</b> - Saner A.B. and Mungray A.K.	90-105
13.	<b>Studies on the Sonochemical assisted Oxidation Reaction of Potassium Iodide for Iodine Release using Ultrasound</b> - Sivakumar Venkatasubramanian and Poorna Prakash R.	106-110
14.	<b>Luminescence Properties of Ce-Doped Di-Calcium Magnesium Disilicate <math>\text{Ca}_2\text{MgSi}_2\text{O}_7:4 \text{ mol}\% \text{Ce}</math></b> - Shukla Dipti	111-114
15.	<b>Characterization of Green synthesised Iron nanoparticles and application of synthesised Iron nanoparticles as an effective catalyst for the removal of Carcinogenic metals in aqueous solution</b> - Rao Chandana Narasimha and Sujatha M.	115-122
16.	<b><math>\text{Pb}^{2+}</math> ion removal from contaminated aqueous solution by adsorption onto Graphene Oxide Sand Composite (GOSC) for efficient water purification</b> - Khare Nidhi, Lawrence Smarika and Chhatri Amita	123-137
17.	<b>A Molecular Docking and Dynamic Simulation Study for the Inhibition of Porcine Coronavirus: Drug Repurposing Approach</b> - Tiwari Anupama, Mishra Shweta, Darwhekar G.N. and Mukhopadhyay Suman	138-144
18.	<b>Salt Stress Tolerance in Broad Bean (<i>Vicia Faba L.</i>) and the Interaction of NaCl and Phytohormones on the Root, Biochemical Characters in Greenhouse and in the Field</b> - Amrani Nassima, Baka Mebarek, Ben Moussa Mohammed Tahar, Harkat Hassina and Baziz Karim	145-159
19.	<b>Validation of Diacetyl Monoxime Method for Quantification of Urea in Sea Water</b> - Saxena Nishant, Chandrashekharaiyah P.S., Sanyal Debanjan, Sapre Ajit and Dasgupta Santanu	160-168
20.	<b>Identification and Structural Characterization of Forced Degradation Impurities of Sacubitril by HRMS – Development and Validation of a Stability indicating RP-HPLC method</b> - Gandhi Santosh Kumar and Mandal Badal Kumar	169-179
21.	<b>Chemical Modelling Potentiometric Study on the Complex Formation of Ditopic Sebacic Acid Dihydrazide with <math>\text{Co}^{2+}</math> and <math>\text{Ni}^{2+}</math> in Aqueous Medium</b> - Saladi Rama Krishna, Pulipaka Shyamala and Atreyapu Satyanarayana	180-186
<b>Review Paper:</b>		
22.	<b>Recovery of Lithium from Waste Lithium-ion Batteries-A Review</b> - Varshney K. Pradeep and Malhotra Shveta	187-196

❖ EDITORIAL BOARD: P IV ❖