

# RESEARCH JOURNAL OF CHEMISTRY AND ENVIRONMENT

Vol. 28(9), September 2024



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](mailto:info@worldresearchersassociations.com)

**CONTENTS**

<i>Research Papers:</i>		
1.	<b>Optimization of Lignocellulosic Enzyme production by Microbial Strains: Study of Kinetics and Environmental Influences</b> - Bendaoud A., Hmamou A., Moussaoui F., Eloutassi N. and Lahkimi A.	1-8
2.	<b>MoO<sub>3</sub> Nanoparticles for enhanced photocatalysis, antioxidant activity and some selected biomedical applications: <i>Perioria pinnatum</i> leaf extract assisted with green synthesis and Characterization</b> - Madhu R., Pruthviraj K., Sreenivasa S., Devaraju and Shet Prakash M.	9-15
3.	<b>Design and Life Cycle Assessment (LCA)-based Sustainability Evaluation of a Novel Microbial Fuel Cell (MFC)-Integrated Sequencing Batch Reactor (SBR) System</b> - Nilavu Balraju, Das Ashutosh and Parthiban P.	16-23
4.	<b>Kinetic and mechanistic studies in the Oxidative regeneration of carbonyl compounds from oximes by diethylammonium chlorochromate</b> - Kumawat Ketul, Yajurvedi Deeksha, Choudhary Anurag and Prakash Om	24-29
5.	<b>Study of preparation of Herbal indicator from selected flower parts for acid base titration: A Green Chemical Approach</b> - Gupta Poonam and Garg Khayal	30-32
6.	<b>Activity of antioxidant defense system in fenoxycarb treated mango leaf webber <i>Orthaga exvinacea</i> Hampson (Lepidoptera: Pyralidae)</b> - Mandeth Kodyil Geetha Nambiar and Varghese Vijesh	33-42
7.	<b>The Atmospheric water harvesting by using Neodymium Metal Organic Framework (MOF-417)</b> - Jagtap Tanmay P., Gadale Sharda and Waghmode Shobha A.	43-46
8.	<b>Spectrophotometric determination of mercaptopurine and dimercaprol for use in physiological and environmental application</b> - Singh Jasvir and Vishavnath	47-58
9.	<b>A simple and quick run time RP-HPLC method for simultaneously analysis of pyrazosulfuron ethyl and pretilachlor content on GR formulation</b> - Singh Rakesh, Jani Darshan, Sharma Archi and Dhalani Jayesh	59-66
10.	<b>Investigating unexplored cyanobacterium <i>Desmonostoc salinum</i> sp. in mangroves as a novel antioxidant source</b> - Bandaru Aishwarya and Gyana Prasuna Ravi	67-76

**Review Papers:**

11.	<b>Recent Applications of Raman Spectroscopy In Thin Films</b> - Ho Soonmin and Mohanraj K.	77-91
12.	<b>Unveiling Novel Drug Leads: Utilizing Molecular Docking Studies for Efficient Drug Discovery</b> - Ahmed Majuj, Sharma Anisha and Bora Rinchi	92-100

❖ EDITORIAL BOARD: P IV ❖