

## RESEARCH JOURNAL OF CHEMISTRY AND ENVIRONMENT

An International Research Journal of Chemical Sciences and Environmental Sciences Res. J. Chem. Environ., Volume 28(8), Pages 1-98, August (2024)

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: <a href="https://www.worldresearchersassociations.com">https://www.worldresearchersassociations.com</a>

E-mail: info@worldresearchersassociations.com

## **CONTENTS**

Rese	arch Papers:	
1.	A Preliminary Study of Nutritional Enhancement of Duckweed ( <i>Lemna minor</i> ) through Fermentation with Saccharomyces cerevisiae and Lactobacillus sp.  - Hayati Royani L., Hakim Luchman, Nurjannah, Nursyam Happy and Prihanto Asep A.	1-5
2.	Design Synthesis and Spectral Characterization of Novel Morpholine ring fused with Substituted Pyrazoline Derivatives as Promising Anticancer, Antimicrobial Activity of in vitro and in silico studies - Ezhilarasi M.R. and Mathew Manju	6-15
3.	Synthesis and docking studies of some novel heterocyclic moieties acting as superior inhibitors - Sujatha G., Pazhanisamy T., Suresh M. and Ramanathan P.	16-22
4.	A Simple Colorimetric Method for the Estimation of Metoclopramide Hydrochloride in Pharmaceuticals dosage - Al-Hafidh Hiba A. and Yassin Rabee M.A.	23-31
5.	Synthesis, characterisation, DFT and biological evaluation of 4-(1-ethylbenzimidazol-2-yl)-2-(arylamino)thiazoles - Harsha J., Abbs Fen Reji T.F. and Anashafer R.L.	32-42
6.	Isolation, identification and screening of Polyurethane polymer degrading microbe isolated from contaminated site - Rajan Aiswarya and Shankar Vijayalakshmi	43-50
7.	Enhancing the Electrochemical Performance of TiO <sub>2</sub> /Ti Electrodes through Sulphur Calchogenic Material Doping - Muzakkar Muhammad Zakir, Kuen Novianti Anggraeni Wulandari, Salim La Ode Agus and Nurdin Muhammad	51-56
8.	Cross talk between PGPR and Casuarina junghuhniana on lignite mine soil - Naveena M. Linnett and Gowrie S. Uma	57-65
9.	Synthesis, Characterization and Theoretical Treatments for Complexes of Co <sup>+2</sup> , Ni <sup>+2</sup> , Zn <sup>+2</sup> and Cd <sup>+2</sup> Ions with Mixed Ligands of Cef and Glycine - Hindi Shymaa A. and Hassan Sahar S.	66-80
10.	Evaluation of Bioadsorption Efficiency of the Spent Mushroom Substrate of Calocybe indica for removing Iron from some contaminated Water Samples - Sahu Jhameshwar Prasad, Koreti D. and Chandrawanshi Nagendra Kumar	81-86
11.	Docking with DNA gyrase b of <i>Staphylococcus aureus</i> and <i>in vitro</i> antimicrobial screening of (1e)-4-methyl-1-((4-oxo-4h-chromen-3-yl)methylene)-4-phenylthiosemicarbazide and its complexes - Sangeetha K.G. and Aravindakshan K.K.	87-90

Review Paper:		
12.	A review on microbial biosurfactant mediated petroleum hydrocarbons recovery - Harikumar Gayathri and Krishnan Kannabiran	91-98

❖ EDITORIAL BOARD: P IV ❖