

E-ISSN: 2278 – 4527 PRINT-ISSN No. 0972-0626

RESEARCH JOURNAL OF CHEMISTRY AND ENVIRONMENT

An International Research Journal of Chemical Sciences and Environmental Sciences Res. J. Chem. Environ., Volume 26(4), Pages 1-201, April (2022)

Dr. D.K. Vardhan Mumbai, 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

Rese	arch Papers:	
1.	Optimization of Enzymatic Degumming Process for Sunflower Oil using Response Surface Methodology: Efficiency and Oil Yield - Lamas D., Constenla D. and Ceci L.	1-10
2.	The Histopathological Analysis of Sodium Arsenite (As³+) Induced Hair Loss and Associated Dermal Changes in C57BL Mice - Binumon Mangalathettu Thankachan, Najeeb Shahul Hameed and Sreejith Parameswara Panicker	11-16
3.	Evaluation of pollution of groundwater resources by Carbofuran based on its adsorption on three soils by Spectrophotometry - Sharma Nisha and Sharma Devender Kumar	17-26
4.	Green Synthesis of Silver Nanoparticles using Plant Extracts and Their Applications for Water Purification and Anti-Diabetic Properties - Alex Sharon, Gangte Manglalsiem Obed and Sundarrajan Priya	27-35
5.	Monitoring and Assessment of Water Quality using Multivariate Statistics of Physico-chemical Parameters to establish Baseline Level around proposed Jaitapur Nuclear Power Plant (JNPP), India - Shinde R.D., Burungale S.H., Supale A.R., Chikode P.P. and Sabale S.R.	36-49
6.	Understanding the synergistic effect of bimetallic Cu ₂ O-ZnO nanocomposites for the antimicrobial activity and facile synthesis of phenyl xanthenedione: A comparative study - Dwivedi Poonam, Jatrana Indu, Satiya Honey and Lokhande R.S.	50-60
7.	Corrosion behaviour of nickel based abradable coating used in aero engines - Parida M. and Nanda S.P.	61-66
8.	Enhancement of heavy metal removal efficiency of plants using <i>L. sphaericus</i> - Hung Nguyen Thanh and Tra Mai Huong	67-71
9.	DBU promoted Efficient Bioactive Synthesis of Novel 1-(2-methyl-1, 5-diphenyl-1H-pyrrol-3-yl) ethanone derivatives - Chinnayya Setti S., Suresh Gowd V., Durga Rao B.V., Krishna Rao N. and Shaik Lakshman	72-85
10.	Constructed Wetlands planted with Lignocellulosic Grass Species for Wastewater Treatment and Biomass Utilisation - Pillai Jaya S. and Nair Brijesh A.N.	86-98

11.	Eco-friendly and Efficient Synthesis of 2-aryl-1-arylmethyl-1 <i>H</i> -Benzo[<i>d</i>]imidazoles by using Sodium Hypochlorite - Patil Sachin V. and Nagargoje Deepak R.	99-104
12.	The aftermath of fireworks prohibition on Diwali festival due to COVID-19 situation: A case study of the air quality of metropolitan cities of India - Nagda Chirmaie, Kumar Kapil, Jhala Lalit Singh, Chouhan Chandrapal Singh and Rathore Devendra Singh	105-114
13.	Synthesis and characterization of new pyrazole and isoxazole derivatives as potential antibacterial and antifungal agents - Sanjeeva P., Narendra Reddy Y. and Venkata Ramana P.	115-123
14.	Equilibrium, Kinetic and Thermodynamic Studies of Malachite Green Dye Removal using Activated Sludge from Common Effluent Treatment Plant - Malviya V., Shrivastava P., Yadav A., Malviya R., Dwivedi M.K. and Jain N.	124-134
15.	Synthesis and Characterization of Azo, Bis-Benzylidene and Pyranone based Polymers for NLO Application - Ravula Sampath, Sahoo Bijaya Ketan and Kolli Balakrishna	135-143
16.	Studies on the corrosion inhibition properties of <i>mimosa pudica</i> on aluminium in alkaline medium - Brindha D. and Venkatraman B.R.	144-151
17.	GIS based approach for the assessment of water quality of the biodiversity heritage site of India - the Ameenpur lake, Hyderabad - Srinidhi N.S., Madhusudhana Reddy P. and Anji Reddy M.	152-162
18.	Design and synthesis of iron(II) complexes with Schiff bases derived from 6-aminopenicillanic acid and heterocyclic aldehydes - Sengar S., Singh S.K. and Gupta M.K.	163-166
19.	A Study on Removal of Fluoride Ions using Kaith Plant Leaves (Feronia limonia) as a Low- Cost Natural Adsorbent - Meena Sunder Lal, Jhalora Priyanka, Shorgar Neetu and Tak Paras	167-179
20.	In vitro anticancer activity studies of Aspergillus terreus on uterine cervix Cancer cells - Rajitha P.B., Prabhu Ashwini and Naik Prashantha	180-186
21.	Use of Herbal indicator from Bixa orellana seed in Volumetric Analysis - Gupta Poonam and Bhandari Ranu	187-189
Revi	ew Paper:	
22.	A Review on Cell Immobilisation Technique: A Sustainable solution for efficient treatment of Industrial Waste water - Savio Nikhil and Srivastava Rajeev Kumar	190-201

❖ EDITORIAL BOARD: P IV ❖