



**RESEARCH JOURNAL OF
CHEMISTRY AND ENVIRONMENT**

Vol. 26(7), July 2022

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 26(7), Pages 1-219, July (2022)

Editor-in-Chief (Hon.)

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: +91-94250-56228Website: <https://www.worldresearchersassociations.com>E-mail: info@worldresearchersassociations.com**CONTENTS**

Research Papers:		
1.	Effect of Sintering on Phase Transformation Behavior and Morphology of Calcinated 5 Wt% Mg-PSZ - Yusuf Dedek, Septawendar Rifki and Noviyanti Atiek Rostika	1-5
2.	Investigation of Ambient Air and its Quality around University Campus and National Highway (NH-92) at Etawah Road, Gwalior, India - Singh G.K., Rai S. and Jadon N.	6-13
3.	Lomefloxacin loaded solid lipid nanoparticles gel for topical ocular therapy: Optimization, evaluation and ex vivo studies - Gautam Darsh, Chaurasia Himanshu and Singh Ranjit	14-22
4.	Evaluation of the novel Blue Emitting Phosphor with High Thermal Stability and High Color Purity for Solid State Lighting Applications - Ca₂MgSi₂O₇: Eu²⁺ - Shukla Dipti	23-27
5.	Impact of magnesium addition in zinc oxide matrix for enhanced structural, optical, antimicrobial and anticancer properties - Thiruchelvi M., Senthamilselvi M.M. and Venkatraman B.R.	28-36
6.	Activity of <i>Aegle marmelos</i> (L) Correa (Buah Maja) Ethanol Extract to Multiresistant <i>Eshecichia coli</i> Clinical Isolates from Urinart Tract Infection Patients - Rostinawati Tina, Saputri Wahyu Eka, Wicaksono Imam Adi and Subarnas Anas	37-42
7.	Anti-diabetic activity and Phytochemicals Screening of <i>C. revoluta</i> rachis on alloxan-induced diabetic rats - Prakash V., Kaur H., Kumari A., Gupta S. and Bala R.	43-48
8.	Adsorption of chromium (VI) ions from aqueous solution on activated carbon prepared from <i>Centella asiatica</i> leaves - Nirmala S. and Kumaraguru N.	49-56
9.	Studies on the application of Zirconia nanoparticles for the removal of heavy metal (Pb (II)) from the aqueous solution - Prabha N., Jayapriya G. and Vennila M.	57-63
10.	Degradation of pollution due to Rhodamine B dye by novel rGO/TiO₂/PE hydrogel composite –catalyzed photo-Fenton Process - Ahmed Yehya M. and Kamoona Suhair	64-70

11.	Conversion of palm oil sludge to biodiesel using sulphuric acid as catalyst - Manjunath R., Narula Archana and R.R. Siva Kiran	71-76
12.	In silico study, Synthesis and evaluation purine analogues as potential antimalarial agents - Verma P., Chauhan B., Singh R., Gupta A.K. and Rani D.	77-84
13.	Development and validation of a sensitive LCMS/MS method for the simultaneous quantification of Azelmidipine and Chlorthalidone in human plasma - Phaneendra Rao P.G. and Sreenivasa Rao Battula	85-93
14.	Ditetradecyldiphenylmethane- 4,4-dicarbamate supramolecular gelator: Synthesis, characterization and Oil trapping - Saharan Yajvinder and Singh Joginder	94-100
15.	Synthesis of new Oxadiazole derivatives containing 2H-chromen-2-one moiety: A novel class of potential antibacterial and antifungal agents - Mahesh M., Sanjeeva P., Manjunath G. and Venkata Ramana P.	101-110
16.	Pharmacognostic, Phytochemical and Optimization Studies of Hydroalcoholic Extract of <i>Terminalia catappa</i> Linn. Dried Fruit - Saharan Anjali, Dureja Harish and Dhiman Anju	111-119
17.	Phytochemical evaluation and Chemical characterization of <i>Bauhinia variegata</i> L. bark extract by TGA/ DSC, FT-IR and GC-MS analytical techniques: Pharmaceutical Aspects - Khanna Tanvi, Dave Akash and Robin Pushpa	120-126
18.	Application of response surface methodology for optimizing process parameters for the removal of Pb and Cu by <i>Acacia Concinna</i> from contaminated soil - Ugwu Elijah Chibuzo, Gupta Bhaskar Sen, Adebayo Adeloye and Martínez-Villegas Nadia	127-139
19.	Resultant peak dissection by match 3 in XRD of Mg doped ZnO nanoparticles - Saraswathi V., Ramanathan R. and Ramasamy R.	140-144
20.	In vitro Evaluation (Antioxidant Activity) of coumarin derivatives - Devi Sarika, Singh Pooja, Rathi Vaibhav and Kumar Praveen	145-152
Review Papers:		
21.	Emerging applications and host- guest chemistry of synthetic macrocycles - Mishra Purni, Sethi Pooja and Kumari Anjana	153-167
22.	Occurrence, Distribution, Conservation, Ethnobotanical and Pharmacological aspects of endangered medicinal herb belonging to Genus <i>Rheum</i> - Upadhyay Sweta, Uniyal Anjali, Kumar Vijay and Gupta Sanjay	168-186
23.	Nanostructured materials for removal of organic and inorganic contaminants from water and wastewater - Ahmaruzzaman Md.	187-197
24.	A Review on Textile Effluents Treatment Approaches - Rengadurai S., Balraj S., Elavarasan P., Devanesan M.G. and Riswan Ali S.B.	198-212
25.	Heteropolyacid salts as catalyst in the biodiesel production: A review - Sharma N., Kumar M., Yadav S. and Sharma J.	213-219

❖ EDITORIAL BOARD: P IV ❖