

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 27(4), Pages 1-148, April (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: <u>info@worldresearchersassociations.com</u>

CONTENTS

Rese	arch Papers:	
1.	Antimicrobial activity of hydrogel loaded with Capsicum annuum, Auricularia auricula judae and Kappaphycus alvarezii Regina Leong Z.L., Wan H.L. and Teo S.S.	1-6
2.	Decolourization and Detoxification of Carcinogenic Azo Dyes by Isolated bacterial strains - Rashmi, Battan Bindu, Chahal Sulekha and Sharma Jitender	7-20
3.	Synthesis and characterization of heterobinuclear Schiff base nickel(II) complexes involving nitrogen and oxygen donor ligand - Prakash Shivani, Gupta Anju K., Prakash Sachin, Singh K.R.R.P. and Prakash D.	21-25
4.	Preparation, Characterization and Antifungal Activity of Metal Chelates of 5-[2-{2-(4-fluorophenyl)-5-nitro-1H-imidazol-1-yl}ethoxy]methyl-8-hydroxyquinoline - Patel S.N. and Patel Y.S.	26-32
5.	Two Limonoid Compounds from the Seeds of <i>Chisocheton lasiocarpus</i> (Meliaceae) - Nurlelasari, Asman, Darwati, Harneti Desi, Mayanti Tri, Maharani Rani and Supratman Unang	33-38
6.	Biological Studies and Spectroscopic investigation of 4-Methyl Benzylimine Schiff Base Metal Complexes - Gose Ramamohan, Jaya Raju A., Nagaraju N. and Sreeramulu J.	39-45
7.	Synthesis, Characterisation and Hirshfeld surface analysis of some Mercury(II) molecular adducts with macrocyclic ligands - Singh Mukta, Kanaoujiya Rahul and Srivastava Shekhar	46-57
8.	Effective Synthetic Route for Large Scale Synthesis of Fluphenazine Hydrochloride and process related unknown impurity - Singavarapu Adilakshmi, Reddipalli Gowri Sankar, Ghojala Venkat Reddy, Akkapally Narsimulu and Guddeti Chandrashekar Reddy	58-64
9.	Simulation Modeling of A3243g Mutations on tRNA _{Leu (UUR)} against Type 2 Diabetes Mellitus using <i>In Silico</i> Method - Sari Riska Puspita, Maulana Ahmad Fariz, Yusuf Muhammad and Maksum Iman P.	65-71
10.	Kinetics Study of Hydrogen Combustion over Pt/Alumina Catalyst - Chauhan Vaishali and Chauhan Nishant	72-78
11.	Effect of Condensation Product on the Electrochemical Behaviour and Corrosion Resistance of Zn and Zn-Ni Deposits - Patil Nagabhushana, Mamatha G.P. and Basavanna S.	79-88

12.	Vibrational studies of 2,3,5,6-tetrachloro-1,4-benzoquinone and its reactivity: An <i>ab-initio</i> computational method - Kushwaha A., Dwivedi Smriti and Prasad R.L.	89-100
13.	Oxidative Regeneration of Carbonyl Compounds from Oximes by Imidazolim Dichromate: A Kinetic and Mechanistic study - Kumar Devendra, Baghmar Manju and Choudhary Anurag	101-106
14.	Low-Cost Synthesis of MnTiO ₃ Perovskite Nanomaterial and their applications in Adsorption of Trypan Blue from Wastewater - Bhavyasree A.B., Latha K.P. and Jayanna H.S.	107-112
15.	Synthesis and cytotoxicity of Mannich Base of Benzimidazole Derivatives against Neuroblastoma Cell line - Vasuki B., Mahadevan N., Sekar V., Vijayabaskaran M. and Senthil V.	113-119
16.	Development and Validation of RP-HPLC Method for the simultaneous determination of Nirmatrelvir and Ritonavir in bulk and pharmaceutical formulation - Gandhi Santosh Kumar and Mandal Badal Kumar	120-127
Revi	ew Papers:	
17.	Recent Progress on Promising Antimicrobial activities related to 1,3,4-thiadiazole and its derivatives - Gautam A.	128-134
18.	Bacterial enzymes for azo dye degradation: an insight - Patel Jay N., Vaishnav Darshit K., Joshi Pavan R. and Tipre Devayani R.	135-148

❖ EDITORIAL BOARD: P IV ❖