



Journal of Applicable Chemistry

2016, 5(1): 01-307

(International Peer Reviewed Journal)



CONTENTS

1. Contents
2. Editors Desk
3. About The Journal
4. **Chemical Education:** HotIce (Hands-on-tutorial for intelligent computational Evolution) Part 1: Quaternions in Omnimetrics (QuO) 01-20
K. Ramakrishna¹ and R. Sambasiva Rao^{2*}
5. **Review:** Computational Quantum Chemistry (CQC) 21-110
Part 2: Anticancer/anti-HIV drugs and DFT studies with Jaguar
K. Ramakrishna^{1*}, B. Venkata Sasidhar¹ and R. Sambasiva Rao²
6. **Research Paper:** Synthesis and Characterization of Azo Linked Schiff Bases and Their Bimeric Iron (III) Complexes 111-115
Santosh S. Chandole and S.G. Shirodkar*
7. **Research Paper:** Synthesis and Characterization of Pyrimidine, Pyridine and Chromen-2-One Analogues 116-121
Mohammed Al-Ghorbani, Gurupadaswamy H.D,
Nandini K NandShaukath Ara Khanum *
8. **Research Paper:** Synthesis, Characterization and Biological Activity of Novel Quinazolinone Compounds 122-127
Pankaj k. Singh and Rakesh K. Paliwal*
9. **Research Paper:** Synthesis of Some New Bridgehead Thiadiazolo [3,2-A] Pyrimidine Derivatives Under Microwave Irradiations And Their Antimicrobial Evaluation 128-135
Saloni Thakur¹, Sumeet Bhatia¹, Monika Bansal²
and Balbir Kaur^{1*}
10. **Research Paper:** Synthesis of Chalcone And Their Derivatives as Antimicrobial Agents By Using Poly Ethylene Glycol PEG(400) 136-141
Manju Yadav*, Asha Lavania, Kiran Dasaray and Anita V. K. Anand
11. **Research Paper:** Synthesis Of Novel Series of 1,2-Oxazine Bearing Bis(Heterocycle) Via [4+2] Cycloaddition Reaction of Isoxazole Substituted α -Nitrosoolefin 142-147
B. J. Shankar
12. **Research Paper:** Synthesis of Biologically Active 3-Hydroxy-3-Phenyl-1-(5-Chloro-2-Methyl) Phenyltriazene and Application in the Spectrophotometric Study of Iron Complex 148-154
Shilpa Jain, Shilpa Agrawal, Sapana Manwani, Monika Bhalothia and AK Goswami*
13. **Research Paper:** Synthesis And Caractérisation of N-Salicylidene Γ -Butyric Acid (KHL) And its Caffeine Complexes [M(LH)(Caf)₂H₂O]N 155-164
M. El Amane*, Y. Kennouche and H. Atmani

-
14. **Research Paper:** Synthesis, Characterisation And Microbial Activity of Mixed 'Transition Metal - Calcium Tartarate' Complexes 165-178
Murlidhar A. Betallu¹, Vijay B. Tadke¹, Girish R Pathade², Kailash B. Sapnar³ and Milind B. Ubale^{4*}
15. **Research Paper:** In Vitro Anti-inflammatory Activity of Tagetes Erecta Flower, Cyano Dactylon and Curcuma Amada Rhizome Extracts 179-184
P. Jegajeevanram¹, N.M.I. Alhaji^{2*} and S. Velavan³
16. **Research Paper:** Optimisation Of Procedure For Dyeing of Wool And Cotton Fibers With Symplocos Racemosa Leaves 185-190
Pranjali Purohit and M.C.Purohit*
17. **Research Paper:** Micellar Properties of Benzyl Dimethyl Dodecyl Ammonium Bromide in Aqueous Non Polar Organic Additives 191-203
Anita D. Mudawadkar^{1*} and Tryambak J. Patil²
18. **Research Paper:** Kinetics Of Oxidation Of Trehalose By Protonated N-Bromosuccinimide Using Rh (III) Chloride As Homogeneous Catalyst 204-218
Ashok Kumar Singh, Rajesh Kumar Singh, Jaya Srivastava, Rakesh Patel and Shahla Rahman*
19. **Research Paper:** Catalytic Oxidation of CO over Pure And Doped Cu-Ni-O System 219-230
A.M.Turky
20. **Research Paper:** Synthesis, Crystal Structure and Hirshfeld Study of 3,3'-dinitrobenzophenone 231-241
N.Latha Rani¹, C.S.Karthik², P.Mallu², L.Mallesha³ and M.A.Sridhar^{1*}
21. **Research Paper:** Simultaneous Spectrophotometric Determination of Iron (II) And Gallium(III) In Micellar Media Using 2-Hydroxy-3-Methoxybenzaldehyde-Isonicotinoylhydrazone (HMBAINH) 242-247
V.S Anusuya Devi^{1*}, P. Govinda Chowdary², L. Parashuram¹
22. **Research Paper:** Effective Visible Light Photocatalytic Degradation of Congo Red And Fast Sulphon Black F Using H₂O₂ Sensitized BiVO₄ 248-254
A.M. Umabala*, P. Suresh and A.V. Prasada Rao
23. **Research Paper:** Membrane Mediated Organocatalyst Separation Methodology 255-265
Abhinaba Gupta
24. **Research Paper:** Assessment of Ground Water Samples Collected from Industrial Area in East Zone of Central India 266-280
Indra Prasad Tripathi^{1*} and Arvind Prasad Dwivedi²
25. **Research Paper:** Corrosion Inhibition of Brass In 0.5N HNO₃ By 3-Hydroxy-3-(4-Chlorophenyl)-1-(4-Sulphonato (Sodium Salt)) Phenyl Triazene (HCST): Adsorption And Thermodynamic Study 281-290
Alpana Soni*, Pratibha Sharma, Monika, Rekha Dashora and A.K.Goswami
26. **Research Paper:** Formulation of Nabumetone Controlled Release Tablets Using HPMC K4M 291-298
Chirravuri S Phani Kumar^{*1}, Dwarampudi Suma², Mediseti Lalitha², Thulluru Ashok¹ and N Baskar Reddy¹

27.	Advancement Application Announcement (AAA):New Chemistry News: Organic molecules on Mars	299-300
28.	AAA:MAPS (manuscript(s) awaiting publication soon)	301-301
29.	AAA:Errata	302-302
30.	AAA:Best research paper of 2015	303-303
31	AAA:Message-1 (Prof. K M Khopkar)	304-304
32	AAA:Message-2 (Prof. U Murali Krishna)	305-305
33	AAA:Seminars and Symposia	306-307