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Area of Specialization : Kinetics & Oxidation Studies

LIST OF PUBLICATIONS :

JOURNALS

1. P Balakumar (2019), Kinetic study on the Oxidation of Dibenzyl Sulfide with iron(III) polypyridyl complexes in the presence of Cationic micelle, International Journal of Chem Tech Research, ISSN : 0974-4290, Vol.12 No.1, 2019, pp 138-142
2. P Balakumar (2019), Synthesis of Dibenzylsulfoxide using Tris[1,10- Phenanthroline] Iron(II) Perchlorate, International Journal of Chem Tech Research, ISSN : 0974-4290, Vol.12 No.1, 2019, pp 63-69
3. P Balakumar , S Balakumar , P Subramaniam, D.Sweetlin Rajula Rubavathi (2018), Kinetic study on the oxidation of Phenyl Vinyl Sulfide with Iron(III)-Polypyridyl complexes in the presence of Anionic Micelle , International Journal of Chem Tech Research, ISSN : 0974-4290, Vol 11, No: 3, Oct **2018**, pp: 262-264
4. D.Sweetlin Rajula Rubavathi, S Balakumar P Balakumar (2016), Iron (III)-Salen-Catalyzed H₂O₂Oxidation of Dibenzyl Sulfide in Reverse Micelles , Materials Today: Proceedings 3 (2016), **ELSEVIER**, pp: 2214-7853
5. P Balakumar , S Balakumar , P Subramaniam (2015), Kinetic Study on the Oxidation of Phenyl Vinyl Sulfide with Iron(III)-Polypyridyl Complexes in the Presence of Non-Ionic, International Journal of Chem Tech Research, ISSN : 0974-4290, Vol.8, No.6, **2015** pp 603-606
6. Jacob Vincent, P Balakumar (2014), Assessment of Fluoride Concentrations of Groundwater in Tiruchendur, Thoothukudi District, Tamilnadu by SPADNS Method, International Journal of Chem Tech Research, ISSN : 0974-4290, Vol 6, No: 11, 4807, Oct **2014**, pp: 4807
7. Jacob Vincent, P Balakumar (2013), Oxidation of phenyl thioacetic acid by pyridinium chlorochromate, International Journal of Advanced Scientific and Technical Research, ISSN 2249-9954, Issue 3 volume 1, January-February **2013**, pp: 186-218
8. P Balakumar , S Balakumar , P Subramaniam (2012), Application of the Marcus theory to the Electron transfer reaction between Benzylthioacetic acid and Tris(1,10-Phenanthroline) Iron(III) Perchlorate, React Kinet Mech Cat, ISSN 1878-5190, DO, **Nov 2012** 10.1007/s11144-012-0481-x, **SPRINGER**

9. P Balakumar , S Balakumar , P Subramaniam (2012), Importance of Hydrophobic Interaction in the micellar Catalysed diphenyl sulfide oxidation with iron(III)-bipyridyl complex, Der Chemical Sinica, Pelagia Research Library, CODEN(USA) CSHIA5, ISSN: 0976-8505, Vol 3, No:4, Aug 2012, pp:959-964
10. P Balakumar , S Balakumar , P Subramaniam (2010), Electron Transfer Reactions in Iron(III)-bipyridyl complex with Diphenyl Sulfide, Asian Journal of Chemistry, Vol 22, No: 7, **2010**, PP: 5723-5729

BOOK PUBLICATIONS

1. Dr.P.Balakumar, Dr.T.Jothy Stella, Mr.Jacob Vincent, (2015)Chemistry Laboratory I & II, Jai tech Publications ISBN : 978-93-80624-28-0, **June 2015**

CONFERENCES

1. P Balakumar, S Balakumar , P Subramaniam , D.Sweetlin Rajula Rubawathi, 07.09.2016 to 10.09.2016, Page, 226, Synthesis of Dibenzyl Sulfoxide using Tris[1,10-Phenanthroline] Iron(II) Perchlorate International Conference on Functional Materials, PSN College Of Engineering And Technology, Tirunelveli
2. D.Sweetlin Rajula Rubawathi , P Balakumar, S Balakumar, 02.02.2018 to 03-02-2018, Azadirchhal Indica leaf as a corrosion Inhibitor for copper in nitric acid , International conference on Advancements challenges in chemical science, Pachayappa College, Chennai
3. P Balakumar, S Balakumar , P Subramaniam, 07.09.2016 to 10.09.2016, Kinetic Study on the Iron(III)-Salen ion Catalyzed H₂O₂ Oxidation of Thio acids in Reverse Micelles, Page 152, International Conference on Functional Materials, PSN College Of Engineering and Technology, Tirunelveli
4. P Balakumar, S Balakumar , P Subramaniam, 06.03.2015 & 07.03.2015, Application of Marcus theory to the Electron Transfer Reaction between Iron(III) and dibenzyl sulfide, Einstein College of Engineering, Alagulam
5. P Balakumar, S Balakumar , P Subramaniam, 05.01.2016, Micellar effect on electron transfer reaction between Iron(III) Phenanthroline and diphenyl sulfide, ICNCM-16, International Conference at Sarah Tucker College , PG and Research Department of Chemistry, Tirunelveli
6. Jacob Vincent, P Balakumar, 05.01.2016, Impact of solid waste on ground water for post-monsoon period in Arumuganeri, Thoothukudi District, Tamilnadu, ICNCM-16, International Conference at Sarah Tucker College , PG and Research Department of Chemistry, Tirunelveli
7. P Balakumar, S Balakumar , P Subramaniam, 16.12.2015, Kinetic study on the oxidation of Phenyl vinyl sulfide with Iron(III) Polypyridyl complexes in aqueous medium, ICRAMRIA-15, St. Xaviers College, Palayamkottai

8. P Balakumar, S Balakumar, 27.08.2014, International Conference on “Materials and Drug Chemistry-MDC-14), Sarah Tucker College , PG and Research Department of Chemistry, Tirunelveli
9. P Balakumar, S Balakumar , P Subramaniam 24.02.2012 & 25.02.2012, Electron transfer reactions between Phenyl Vinyl Sulfide and Iron(III)-phenanthroline complex in anionic micellar medium, A National Conference on “Advanced Materials” Organised by PSN College of Engineering & Technology, Tirunelveli, PP-39
10. P Balakumar, S Balakumar , P Subramaniam 16.12.2011 & 17.12.2011, Application of Marcus theory to the ET reaction of PhenylVinyl Sulfide with Iron(III)-phenanthroline complex, National Conference on Advanced Functional Materials and Applications Kalasalingam University, Krishnankoil, pp 61
11. D.Sweetlin Rajula Rubawathi , S Balakumar , P Balakumar, 25 & 26.02.2011, Iron(III)-Salen Catalysed H₂O₂ Oxidation of Benzyl Phenyl Sulfide, CSIR and UGC sponsored National Seminar on “Modern Trends In Chemistry” MTC-10 Organized by Vivekananda College, Madurai
12. P Balakumar, S Balakumar , P Subramaniam 17. 02.2011 & 18.02.2011, Application of Marcus Theory to the Electron Transfer Reaction between Iron(III) and Benzylthioacetic acid, National Seminar on “Frontiers in Organic synthesis” Organized Periyar University, Salem
13. P Balakumar, S Balakumar , P Subramaniam 06.01.2011 & 07.01.2011, Micellar effect on the electron transfer reaction between Iron(III)-biphenyl perchlorate and Diphenyl Sulfide, National Conference on “Newer Horizons in Chemistry” Organized by Sri Parasakthi College for Women, Courtallam
14. P Balakumar, S Balakumar , P Subramaniam 02. 12.2010 & 03.12.2010, Cationic and Non-ionic Micellar effect on the oxidation Benzylthioacetic acid by Iron(III)-phenanthroline complex, UGC & DRS Sponsored “National conference on Current Trends in Chemistry”- NCCTC-10 organized by Department of Chemistry, Bharathiyar University, Coimbatore
15. P Balakumar, S Balakumar , P Subramaniam 27 .08.2009 to 29.08.2009, Electron transfer reaction between Iron(III)bipyridyl complex and Benzylthioacetic acid in organized Assemblies, BRNS Sponsored “National Conference on Advanced Materials” organized by PSN College of Engineering & Technology, Tirunelveli
16. S.Balakumar, P Balakumar, 27.09.2006, Pesticide Application Residue control and Pest Management, Rani Anna Government College, Tirunelveli

17. S.Balakumar ,P Balakumar, 23.02.2006 & 24.02.2006, Role of Satellite Meterology in Training and forecasting a tropical cyclone, Alagappa Chettiyar College of Engineering and Technology, Karaikudi

AWARD RECEIVED:

- ◆ Best NSS Programme Officer Award for the year of 2011-'12 from Anna University, Chennai
- ◆ Best NSS Unit Award for the year of 2011-'12 from Anna University, Chennai
- ◆ Over All Championship Award from Anna University, Tirunelveli during Inter collegiate AIDS AWARENESS PROGRAMME – 2013