



Dr. P. Muthu Mareeswaran
Assistant Professor

Contact

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Academic Qualifications: M.Sc., M.Phil., Ph.D.

1. Ph.D in chemistry, Madurai Kamaraj University, Madurai, India.
(Advisor Prof. S. Rajagopal)
2. M.Phil in Chemistry, Madurai Kamaraj University, Madurai, India. (63% Grade I)
(Advisor Prof. S. Rajagopal)
3. M.Sc in Chemistry, Madurai Kamaraj University, Madurai, India. (66.2% Grade I)
4. B.Sc in Chemistry, Madurai Kamaraj University, Madurai, India (67.2% Grade I)

Teaching Experience: 2.3 Years

Department of Industrial Chemistry, Alagappa University, Karaikudi

Research Experience: 4.3 Years

Korea Advanced Institute of Science and Technology (KAIST), South Korea

Department of Industrial Chemistry, Alagappa University, Karaikudi

Additional Responsibilities

1. Wet lab Incharge

Areas of Research

Photochemistry, Catalysis, Renewable energy sources

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	-	3
	M.Phil.	2	2
Project	PG	3	4

Publications:

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
19	4	-	8	-

Cumulative Impact Factor (as per JCR) : 40.5
h-index : 8
i10 index : 5
Total Citations : 114

Funded Research Projects

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	DST INPIRE	October 2014	October 2019	Carbon dioxide capture and electro/photo electrochemical reduction using caliximidazole	35 Laks

Distinctive Achievements / Awards

1. Graduate Aptitude Test for Engineering (GATE 2007)
2. Brain Pool Korea Fellowship, South Korea
3. DST INSPIRE Faculty Award

Overseas Exposure / Visits

1. South Korea

Membership in

Professional Bodies

1. Life Member: Indian Society for Radiation and Photochemistry
2. Life Member: Indian Science Congress

Resource persons in various capacities

Number of Invited / Special Lectures delivered: 1

Chemistry – A Pivot Science, at Advances in recent science, Tamilnadu Open University, Chennai.

Recent Publications

1. B. M. Ashwin, A. Vinothini, T. Stalin, **P. Muthu Mareeswaran*** (2017) "*Synthesis of safranin T-p-sulfonatocalix[4]arene complex by means of supramolecular complexation*", ChemSelect (Accepted)
2. E. Babu, **P. Muthu Mareeswaran**, P. Ramesh, S. Rajagopal* (2016) "*Label Free Luminescence Strategy for Sensitive Detection of ATP using Aptamer-Ru(II) complexes*", J. Lumin. 175, 267. Impact Factor: 2.69
3. A. Rajeshwari, A. Ramdas, **P. Muthu Mareeswaran**, M. Velayudham, S. Rajagopal* (2016) "*Electron transfer reactions of Os(II)-bipyridine complexes with phenolic acids*", J. Mol. Struct., 1115, 75. Impact Factor: 1.78
4. A. Rajeshwari, A. Ramdass, **P. Muthu Mareeswaran**, S. Rajagopal* (2016) "*Electron transfer reactions of ruthenium(II) complexes with polyphenolic acids in micells*", J. Lumin., 170, 8. Impact Factor: 2.69
5. A. Rajeshwari, A. Ramdass, **P. Muthu Mareeswaran**, S. Rajagopal* (2016) "*Electron transfer studies of Ru(II) complexes with biologically important phenolic acids and tyrosine*" J. Fluoresc., 26, 531. Impact Factor: 1.60

6. E. Babu, **P. Muthu Mareeswaran**, V. Sathish, S. Singaravadivel, S. Rajagopal* (2015) "*Sensing and Inhibition of Amyloid- β Based on Simple Aptamer-Ruthenium Complex System*", *Talanta*, , 134, 348. Impact Factor: 4.00
7. **P. Muthu Mareeswaran**, E. Babu, V. Sathish, B. Kim, S. I. Woo, S. Rajagopal* (2014) "*p-Sulfonatocalix[4]arene as carrier for curcumin*", *New. J. Chem.*, 38, 1336. Impact Factor: 3.28
8. **P. Muthu Mareeswaran**, E. Rajkumar, V. Sathish and S. Rajagopal* (2014) "*Electron transfer reactions of ruthenium(II)-bipyridine complexes carrying tyrosine moiety with quinones*", *Luminescence*, 29, 754. Impact Factor: 1.45
9. J. Bhuvaneshwari, **P. Muthu Mareeswaran**, K. Anandababu, and S. Rajagopal* (2014) "*The Switching of Ruthenium(II) Complex from Turn-off to Turn-on Sensor System through Protein Binding*", *RSC Adv.*, 4, 34659. Impact Factor: 3.29
10. J. H. Hoon, **P. Muthu Mareeswaran**, C. H. Choi, S. I. Woo* (2014) "*Synergism between CdTe/FTO electrode and pyridine – Photoenhanced electrochemical reduction of carbon dioxide to formic acid*", *RSC Adv.*, 4, 3016. Impact Factor: 3.29
11. E. Rajkumar,* **P. Muthu Mareeswaran**, S. Rajagopal, (2014) "*Photophysical properties of amphiphilic ruthenium(II)-complexes in micelles*", *Photochem. Photobiol. Sci*, 13, 1261. Impact Factor: 2.25
12. E. Babu, **P. Muthu Mareeswaran**, S. Singaravadivel, J. Bhuvaneshwari, S. Rajagopal* (2014) "*A selective, long-lived deep-red emissive Ru(II) polypyridine complexes for the detection of BSA*", *Spectrochim. Acta A*, 130, 553. Impact Factor: 2.65
13. E. Rajkumar*, K. Swarnalatha, **P. Muthu Mareeswaran**, S. Rajagopal* (2014) "*Electron transfer reactions of ruthenium(II)bipyridine-aminoacid complexes with quinones – Photochemical and semiclassical approach*", *J. Fluoresc.*, 24, 875. Impact Factor: 1.60
14. **P. Muthu Mareeswaran**, E. Babu, S. Rajagopal* (2013) "*Optical recognition of anions by ruthenium(II)-bipyridine-calix[4]arene system*", *J. Fluoresc.* 23, 997. Impact Factor: 1.60
15. E. Babu, **P. Muthu Mareeswaran**, S. Rajagopal* (2013) "*Highly sensitive optical biosensor for thrombin based on structure switching aptamer luminescent silica nanoparticles*", *J. Fluoresc.*, 23, 137. Impact Factor: 1.60
16. S. Singaravadivel, M. Velayudham, E. Babu, **P. Muthu Mareeswaran**, K. L. Lu*, S. Rajagopal* (2013) "*Sensitized near-infrared luminescence from NdIII, YbIII and ErIII complexes by energy-transfer from ruthenium 1,3- bis([1,10]phenanthroline-[5,6-d]-imidazol-2 -yl)benzene*", *J. Fluoresc.*, 23, 1167. Impact Factor: 1.60

17. **P. Muthu Mareeswaran**, M. Prakash, V. Subramaniam, S. Rajagopal* (2012) "*Binding of aromatic amino acids and proteins with p-sulfonatocalix[4]arene - A luminescence and theoretical approach*", J. Phys. Org. Chem., 25, 1217. (Most accessed article in 2012-2013) Impact Factor: 1.51
18. **P. Muthu Mareeswaran**, D. Maheshwaran, E. Babu, S. Rajagopal* (2012) "*Binding and fluorescence resonance energy transfer (FRET) of ruthenium(II)-bipyridine-calixarene system with proteins - Experimental and docking studies*", J. Fluoresc., 22, 1345. Impact Factor: 1.60
19. J. Bhuvaneshwarai, **P. Muthu Mareeswaran**, S. Shanmugasundaram, S. Rajagopal* (2011) "*Protein binding studies of luminescent Re(I)-diimine complexes*", Inorg. Chim. Acta, 375, 205. Impact Factor: 1.92