

CURRICULUM VITAE

Dr. S. MANGALARAJ

Assistant Professor

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Research Interests:

- ❖ Finding new and simple methodology for organic molecule synthesis and their applications in the synthesis of alkaloids and natural products.

Professional Qualifications:

- ❖ Assistant Professor, Department of Chemistry, St. Xavier's College (Autonomous), Palyamkottai - 627 002. (From September 2015 to May 2016)
- ❖ Assistant Professor, Department of Chemistry, St. Joseph's College (Autonomous), Tiruchirappalli - 620002 (From June 2016 on wards).

Academic Qualifications:

- ❖ **B. Sc.** (Chemistry, 80.00%) – St. Joseph's College (Autonomous), Tiruchirappalli, Tamil Nadu, India (**2006**).
- ❖ **M. Sc.** (Chemistry, 79.01%) – St. Joseph's College (Autonomous), Tiruchirappalli, Tamil Nadu, India (**2008**).
- ❖ Qualified in CSIR-NET (**June 2008**).
- ❖ Qualified in UGC-JRF (**June 2009**).
- ❖ UGC-SRF (**June 2011**).
- ❖ Ph.D, Chemistry (**December 2015**) Pondicherry University (A Central University), Pondicherry.

Awards and Achievements:

- ❖ Dr. K. Nambi Endowment Cash Award for first in Physical Chemistry in M. Sc. Chemistry 2008 in St. Joseph's College (Autonomous), Tiruchirappalli.

Publications:

1. Construction of tetrahydro- β -carboline skeletons *via* Brønsted acid activation of imide carbonyl group: syntheses of indole alkaloids (\pm)-harmicine and (\pm)-10-desbromoarborescidine-A. Mangalaraj, S.; Ramanathan, C. R. *RSC Adv.*, **2012**, 2, 12665. **Impact Factor 3.9**
2. Syntheses of fused tetrahydro- β -carboline analogues through imide carbonyl activation using BBr_3 : Evidence for the involvement of fused cyclic N-acyliminium ion intermediate. Mangalaraj, S.; Selvakumar, J.; Ramanathan, C. R. *J. Chem. Sci.* **2015**, 127 (5), 811. **Impact Factor 1.7**
3. Synthesis and biological evaluation of isoindoloisoquinolinone, pyrroloisoquinolinone and benzoquinazolinone derivatives as poly(ADP-ribose) polymerase-1 inhibitors, Suyavaran, A.; Ramamurthy, C.; Mareeswaran, R.; Viswa Shanthi, Y.; Selvakumar, J.; Mangalaraj, S.; Suresh Kumar, M.; Ramanathan, C. R.; Thirunavukkarasu, C. *Bioorganic & Medicinal Chemistry*. **2015**, 23, 488. **Impact Factor 3.3**
4. Triflic Acid Mediated Cyclization of Unsymmetrical *N*-Phenethyl and *N*-(3-Indolylolethyl)succinimides: Regio- and Diastereoselective Synthesis of Substituted Pyrroloisoquinolinones and Indolizinoindolones, Selvakumar, J.; Mangalaraj, S.; Murali Mohan Achari, K.; Mukund, K.; Ramanathan, C. R. *Synthesis* **2016**, 49 (5), 1053. **Impact Factor 2.2**
5. Structural Elucidation and Position Identification of Cu(II) ion in Hexaaquazinc(diaquabismalonto)zincate: Single Crystal EPR and Optical Studies, Parthiban, A.; Arun Prasath Lingam, K.; Mangalaraj, S.; Muthukrishnan, P.; Surendiran, M. *Journal of Cluster Science*, **2021**, 32, 1401. **Impact Factor 2.7**
6. Indolyl-4H-chromenes: Multicomponent one-pot green synthesis, *in vitro* and *in silico*, anticancer and antioxidant studies, Parthiban, A.; Mangalaraj, S.; Prabhakaran, J.; Pooventhir, T.; Christopher Jyakumar, T.; Thomas, R.; Parameshwar Makam, *Journal of Molecular Structure*, **2022**, 1266, 133464. **Impact Factor 4.0**

7. Indolyl-4*H*-Chromene Derivatives as Antibacterial Agents: Synthesis, *in Vitro* **Impact** and *in Silico* Studies, Parthiban, A.; Priyanka Adhikari.; Baskaran, S.; **Factor 2.7** Mangalaraj. S.; Mohd Afzal.; Parameshwar Makam. *Chem. Biodiversity* **2023**, *21* (1), doi.org/10.1002/cbdv.202301392

Total number of citations : **157**
h-index : **5**
i10-index : **4**

Presentation in Conferences / Seminars:

1. Oral presentation titled “*Brønsted acid activation of imide carbonyl group: Synthesis of alkaloids (±)-harmicine and (±)-10-desbromoarborescidine-A*” in “**NATIONAL CONFERENCE ON FRONTIER AREAS IN CHEMISTRY (NCFAC-2011)**” conducted by Department of Chemistry, Pondicherry University, Puducherry during December 22, 2011.
2. Poster presentation in “**14th NATIONAL SYMPOSIUM IN CHEMISTRY (NSC-14) and 6th CRSI-RSC SYMPOSIUM IN CHEMISTRY**” conducted by National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram during February 2-5, 2012.

Teaching Experiences:

UG - 8 Years

PG - 8 Years

Service in St. Joseph’s College:

2017 - President, Department of Chemistry

2019 onwards mentors for UG students

2020 - 175 years of excellence exhibition in charge, Department of Chemistry

2021 - 2022 - IIT JAM in charge, Department of Chemistry

2024 - Member in Archbishop Casimir Instrumentation Centre (ACIC) and IPR Cell