

Name : Dr. K. Sakthivel
Designation : Assistant Professor
Department : Chemistry
Qualification : M.Sc., Ph.D., PDF. CSIR-NET (JRF + LS), GATE

Experience:

Teaching: 2 Years

Industry: 2 Years

Research: 8 Years

Area of Specialization(s) : Synthetic Organic Chemistry

Email (Official ID) : drsakthivel@drngpasc.ac.in

Academic Qualifications

Degree	Branch	Institution / University Name	Year of Graduation
PDF	Chemistry	Central University of Tamilnadu, Tiruvarur	2016
Ph. D.	Chemistry	Bharathidasan University, Trichy	2014
M. Sc.	Chemistry	Bharathidasan University, Trichy	2007
B. Sc.	Chemistry	Gandhigram Rural University, Dindigul	2005

Additional Qualifications

Diploma / Vocational / Certification	Area of Specialization	Institution / University / Agency Name	Year
NET (JRF+LS)	Chemical Sciences	CSIR	2008
GATE	Chemistry	IIT, Madras	2009
NPTEL	Outcome based Pedagogic Principles for Effective Teaching	IIT, Kharakpur	2017
NPTEL	Metal Mediated SYNTHESIS-I	IIT, Bombay	2018

Research Publications (Indexed)

International:

- 1) Srinitha Sonalin, K. Sakthivel and S. Nagarajan, **Functionalization of 1, 8 Naphthalimides - An Approach towards air-stable N- type Organic Semiconductors**, Materials Today: Proceedings, Vol. 5, Issue 5, pp. 16592–16597, August 2018, ISSN: 1369-7021, (Indexed in SCOPUS).
- 2) K. Sakthivel, K. Srinivasan, **Synthesis of naphthalene amino esters by the blaise reaction of o-alkynylarene nitriles**, Journal of Organic Chemistry, Vol. 79, Issue, 7, pp. 3244-3248, March 2014, 79, ISSN: 0022-3263, (Highlighted in Synfacts) (Indexed in SCOPUS).

- 3) K. Sakthivel, K. Srinivasan, **Synthesis of 3, 3-disubstituted-2,3-dihydroaza-naphthoquinones Via simultaneous alkyne oxidation and nitrile hydration of ortho-alkynylarenenitriles**, Organic and Biomolecular Chemistry, Issue 12, pp. 6440-6446, July 2014, ISSN: 1477-0520, (Indexed in SCOPUS).
- 4) K. Sakthivel, K. Srinivasan, **Indium (III) triflate-catalysed [4+2] benzannulation reactions of o-alkynylbenzaldehydes with enolisable carbonyl compounds: Selective synthesis of naphthylketones**, Organic and Biomolecular Chemistry, Issue 12, pp. 268-277, October 2013, ISSN: 1477-0520, (Indexed in SCOPUS).
- 5) K. Sakthivel, K. Srinivasan, **Iodine/water-mediated oxidation of o-alkynylaroyl compounds and application of the products of oxidation in the synthesis of nitrogen heterocycle**, European Journal of Organic Chemistry, Issue 16, pp. 3386-3396, April 2013, ISSN: 1099-0690, (Indexed in SCOPUS).
- 6) K. Sakthivel, K. Srinivasan, N. Sambath, **(3-Ethyl-6, 7-Dimethoxynaphthalen-1-Yl)-(Phenyl) Methanone**, Acta Crystallographica Section E Structure Reports, Vol. 68, pp.o652, February 2012, ISSN: 2056-9890, (Indexed in SCOPUS).
- 7) K. Sakthivel, K. Srinivasan, **Neighbouring formyl group assisted oxidation of o-alkynylarene-carbaldehydes by an iodine/water system**, Issue 15, pp. 2781-2784, April 2011, ISSN: 1099-0690, (Indexed in SCOPUS).
- 8) K. Sakthivel, K. Srinivasan, N. Sambath, **(1-benzoyl-4-(4-methylphenyl) phthalazine**, Acta Crystallographica Section E Structure Reports, Vol.67, pp.o3497, November 2011, ISSN: 2056-9890, (Indexed in SCOPUS).

Presentations in Conference

- 1) **Iodine/water-mediated oxidation of o-alkynylareneketones to tricarbonyl compounds and its application to the synthesis of nitrogen heterocycles**, National Symposium in Chemistry (NSC-14), National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, 3-Feb-12 to 5-Feb-12.
- 2) **Total Synthesis of Aristolactams BII and FI**, International symposium on chemistry and chemical biology of natural's products (CBNP-2012), Indian Institute of Chemical Technology (IICT), Hyderabad, 2-Aug-2012 to 4-Aug-2012.

- 3) **The Blaise reaction of ortho-alkynylarene nitriles: Access to naphthalene amino esters**, National conference on Advances in Synthetic and Material in Chemistry (NCASMC-2014), Mumbai University, Mumbai, 10-March-2014 to 11-Mar-2014.

Participation in Workshop

- 1) **Frontiers in Bioinorganic Chemistry** (Sponsored by Indian Academic Science, Indian National Science ACADEMY and The National Academy of Sciences), Bharathidasan University, Trichy, 25-Feb-10 to 27- Feb-10.
- 2) **Transition - 2015**, Department of Chemistry, Central University of Tamil Nadu, Tiruvarur, 13-Mar-15 to 14-Mar-15.
- 3) **Advances in Computational In Material Science (ACMS 2015), DAE-BRNS and CUTN**, Central University of Tamil Nadu, Tiruvarur, 25-Aug-15 to 27-Aug-15.

Participation in Faculty Development Programme

Quality Initiatives in Higher Education, Dr. N. G. P. Arts and Science College, Coimbatore, 3-Dec-18 to 9-Dec-18.

Awards / Honors

Awards / Honors	Agency / Institute	Year of Award
Topper in NPTEL	IIT, Bombay	2018