

Name : Dr. K. Sakthivel

Designation : Assistant Professor

Department : Chemistry

Qualification : M.Sc., Ph.D., PDF., CSIR-NET (JRF + LS), GATE

Experience : Teaching: 4.10 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, Kharagpur	2017
NPTEL	Metal Mediated SYNTHESIS-I	IIT, Bombay	2018
NPTEL	Reactive intermediates: Carbene and Nitrene	IIT, Kharagpur	2019
ARPIT	Online Refresher Course In Chemistry For Higher Education	SWAYAM	2020

Research Publications (Indexed)

International:

- 1) Srinita 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-alkynylarenenitriles**, 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 eterocycles**, 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-alkynylarenecarbaldehydes 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-alkynylarenenitriles: 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) **Recent Trends in Chemistry**, Department of Chemistry, Fatima College, Madurai, 17-Dec2004.
- 2) **Scholarly Information Access**, University Library, Bharathidasan University, Trichy, 23-Oct-09 to 24- Oct-09.
- 3) **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.
- 4) **Transition – 2015**, Department of Chemistry, Central University of Tamil Nadu, Tiruvarur, 13-Mar-15 to 14-Mar-15.
- 5) **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

- 1) **Quality Initiatives in Higher Education**, Dr. N. G. P. Arts and Science College, Coimbatore 3-Dec-18 to 9-Dec-18.
- 2) **NAAC Revised Accreditation Framework and OBE Assessment based Methodology**, Dr. N. G. P. Arts and Science College, Coimbatore, 27-May-19 to 2-June-19.

Invited Speaker / Session Chair / Member Organizing Committee - Conference / Seminar / Workshop

Organizing Secretary in National Workshop on Intellectual Property Rights (WIPR-19) at Dr. N.G.P. Arts and Science College, 15- Feb-19 to 16-Feb-19, sponsored by Intellectual Property Rights (IPR) cell and DBT Star College Departments of Dr. N.G.P. Arts and Science College, Coimbatore.

Awards / Honors

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

Silver Medal in NPTEL	IIT, Kharagpur	2019
Best Teaching Faculty-2020	Dr.Kalam educational Trust	2020