



Dr. K. Radhakrishnan
Adjunct Faculty

Contact

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Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph. D	IIT Guwahati, Assam	April 2016	Chemistry	-
M. Phil	Pondicherry University	May 2009	Chemistry	First
M. Sc.	The Madura college - Madurai Kamaraj University	April 2008	Chemistry	First
B.Sc.	Vivekananda College Thiruvadakam West- Madurai Kamaraj University	April 2006	Chemistry	First

Teaching Experience

Total Teaching Experience : 5 Years

Position	Institution	Duration
Teaching Assistant	Alagappa University, Karaikudi	Jan 2018 to till date

Research Experience

Total Research Experience : 5 years

Areas of Research

- Synthesis of carbon based quantum dots
- Synthesis of bioactive organic molecules
- Nanomaterials / Nanocomposites for hazardous gas sensing applications

Program of Study		Completed	Ongoing
Project	PG	16	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books/Chapters/Monographs/Manuals
5	-	-	-	-

Cumulative Impact Factor(as per JCR) : 24.6

h-index : 4

i10 index : 3

Total Citations : 62

Distinctive Achievements / Awards

- GATE-2010

Events Participated

Number of Conferences/Seminars/Workshops: 09

- Three days international virtual seminar on The Role of Nanotechnology Against COVID-19, **May 2020**, Alagappa University, Karaikudi.
- One day Webinar on ‘Synthesis and Analysis Using Advanced Flow Chemistry.’ **Oct 2020**, The ICFAI University Tripura
- International conferences on Applied Nanoscience & Nanotechnology. **March 2019**, Alagappa University, Karaikudi, Tamilnadu
- International conferences on Advanced Nanomaterials. **Feb 2018**, Alagappa University, Karaikudi, Tamilnadu.
- ChemConvence **April 2015**, IIT Guwahati
- International Symposium on Bio-Organic Chemistry. **Jan 2015**, IISER Pune
- National Conference on Frontiers in Chemical Sciences. **Dec 2014**, IIT Guwahati
- National Conference on Frontiers in Chemical Sciences. **Dec 2012**, IIT Guwahati
- National Conference on Frontiers in Chemical Sciences. **Dec 2010**, IIT Guwahati

List of Research Articles / Publications

S. No	Authors/Title of the paper/Journal	Impact Factor
1	S. Lokesh Amith , Kattamuthu Radhakrishnan , K. Gurunathan. Utilizing e-waste: Development of a room temperature ammonia sensing device featuring highly crystalline GdInO ₃ nanoballs on surface-active g-C ₃ N ₄ Nanosheets. <i>J. Alloys Compd.</i> 2024 , 1005, 175930 DOI: 10.1016/j.jallcom.2024.175930	5.8

2	Sivasakthi Sethuraman, Amarnath Marimuthu, Radhakrishnan Kattamuthu , Gurunathan Karupasamy. Highly surface active niobium doped g-C3N4/g-C3N4 heterojunction interface towards superior photocatalytic and selective ammonia response. <i>Appl. Surf. Sci.</i> 2021 , 561, 150077 https://doi.org/10.1016/j.apsusc.2021.150077	7.3
3	K Radhakrishnan , Soumi Das, Lal Mohan Kundu. Synthesis of size-expanded nucleobase analogues for artificial base-pairing using a ligand-free, microwave-assisted Cu(I) catalyzed reaction.. <i>ChemistrySelect</i> 2018 , 3, 13098 https://doi.org/10.1002/slct.201802455	1.7
4	K. Radhakrishnan , Namita Sharma, Lal Mohan Kundu. Direct synthesis of 5- and 6-substituted 2-aminopyrimidines as potential non-natural nucleobase analogues. <i>RSC Adv.</i> 2014 , 4, 15087 https://doi.org/10.1039/C4RA00249K	3.8
5	K. Radhakrishnan , Laxmi Narayana Burgula, Lal Mohan Kundu. Watson-Crick and Hoogsteen tri-base pairing: A co-crystal structure of a 2:1 complex of 6-isopropyluracil and adenine nucleobases. <i>RSC Adv.</i> 2013 , 3, 7282 https://doi.org/10.1039/C3RA40766G	3.7
6	Laxmi Narayana Burgula, K. Radhakrishnan , Lal Mohan Kundu. Synthesis of modified uracil and cytosine nucleobases using a microwave-assisted method. <i>Tetrahedron Lett.</i> 2012 , 53, 2639-2642 https://doi.org/10.1016/j.tetlet.2012.03.056	2.3