BIO DATA

Name: K. Leeladevi

Designation: Assistant Professor

Department: Chemistry

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Google Scholar link:
https://scholar.google.com/citations?user=jnGl2b0AAAAJ&hl=en&oi=sra

1. Educational Qualification:

Degree	Branch / Specialization	Institute/University	Year of Passing
B.Sc	Chemistry	Sri Ramasamy Naidu Memorial College, Sattur	2014
M.Sc	Chemistry	Standard Fireworks Rajaratnam College, Sivakasi	2016
Ph.D	Chemistry	Kalasalingam Academy of Research and Education, Krishnankoil.	2022

2. Professional/ Industry Experience: (in chronological order)

S.No	Designation	Institution/ Organization	Period	
			From	To
1	Lab Chemist	Standard Fireworks, Sivakasi	04-07-2016	01-02-2018
2	Teaching Assistant	Sri S Ramasamy Naidu Memorial College, Sattur.	06-10-2021	12-01-2022
3	Assistant Professor	Sri S Ramasamy Naidu Memorial College, Sattur.	18-04-2022	22-04-2024
4	Assistant Professor	Ramco Institute of Technology, Rajapalayam	26-04-2024	Till date

Updated as on 06.06.2026

3. Research Interest: Nanomaterial, Composite Materials, Photocatalyst, Degradation of Organic Pollutants.

4. Publications:

4.1 Journal Publications - 14

1. K. Leeladevi, J. Vinoth Kumar, M. Thiruppathi and E.R. Nagarajan, Straight-Forward Synthesis of Sponge-Sphere Like Cobalt Tungstate: An Efficient Photocatalyst for Dye Degradation, International Journal of Innovative Technology and Exploring Engineering, 9 (2019) 205-208.
2. K. Leeladevi, J. Vinoth Kumar, M. Arunpandian, M. Thiruppathi and E.R. Nagarajan, Investigation on Photocatalytic Degradation of Hazardous Chloramphenicol Drug and Amaranth Dye by SmVO4 Decorated G-C3N4 Nanocomposites, Materials Science in Semiconductor Processing, 123 (2021) 105563.
3. K. Leeladevi, M. Arunpandian, J. Vinoth Kumar, T. Chellapandi, M. Thiruppathi, G. Mathumitha, Jeong-Won Lee and E.R. Nagarajan, Fabrication of 3D Pebble-Like CeVO4/g-C3N4 Nanocomposite: A Visible Light-Driven Photocatalyst for Mitigation of Organic Pollutants, Diamond and Related Materials, 116 (2021) 108424.
4. M. Rajkumar, M. Arunpandian, K. Leeladevi, P. Rameshkumar and S. Arunachalam, Fabrication of pebble stone-like PbMoO4 nanostructure: Focus on photocatalysis, photoluminescence and electron density distribution analysis, Physica B: Condensed Matte, 620 (2021) 413222.
5. K. Leeladevi, M. Arunpandian, J. Vinoth Kumar, T. Chellapandi, G. Mathumitha, Jeong-Won Lee and E.R. Nagarajan, CoWO4 Decorated ZnO Nanocomposite: Efficient Visible Light-Activated Photocatalyst for Mitigation of Noxious Pollutants, Physica B: Condensed Matter, 626 (2022) 413493.
6. K. Leeladevi, M. Arunpandian, J. Vinoth Kumar, Jeong-Won Lee and E.R. Nagarajan, Fabrication of novel flower-like Sr3(VO4)2 anchored on g-C3N4: Visible- light-triggered degradation of organic contaminants, International Journal of Environmental Analytical Chemistry, (2022) 1-21.
7. M. Rajkumar, M. Arunpandian, K. Leeladevi, T. Veemaraj and S. Arunachalam Construction of novel Bi2MoO6@V2O5 nanocomposite as visible-light-driven catalyst for degradation of methylene blue dye Journal of Materials Science: Materials in

Electronics 33, (2022) 1-15.

8. M. Rajkumar, M. Arunpandian, K. Leeladevi, T. Veemaraj and S. Arunachalam, Development of visible light-driven nanorod-like MoO3@ZnO nanocomposite: an affordable catalyst for the degradation of organic dye moiety. Applied Physics. A 128 (2022) 558.
9. M. Subbulakshmi, T. Kavitha, K. Leeladevi, M. Bhuvaneswari, Facile green synthesis of β-cyclodextrin fabricated inclusion complex Zincselenate (ZnSeO3) nanocomposite for photocatalytic degradation of dyes from the textile industry, YMER 21 (2022) 10.
10. M. Subbulakshmi, T. Kavitha, K. Leeladevi, Ascorbic acid: β-cyclodextrin supported greenly synthesized CuSeO4 nanocomposite for catalytic degradation of organic dyes, European Chemical Bulletin 12 (2023) 2069-2088
11. P. Sarojini, K. Leeladevi, T. Kavitha, K. Gurushankar, G. Sriram, Tae Hwan Oh and Ka.Kannan, Design of V2O5 Blocks Decorated with Garlic Peel Biochar Nanoparticles: A Sustainable Catalyst for the Degradation of Methyl Orange and Its Antioxidant Activity, Materials, 16 (2023) 5800.
12. T. Chellapandi, G. Madhumitha, S. Mohana Roopan, M. Elamathi, K. Leeladevi, E.R. Nagarajan, D. Vadivel, D. Dondi, Construction of ZnO nanoparticles on the layered aluminosilicate Montmorillonite K30 nanocomposite and its enhanced photocatalytic removal performance, Optical Materials, 142 (2023) 114099.
13. K. Leeladevi; R. Pandiyan; G. Sriram; Tae Hwan Oh; Mohamed A. Habila, Hydrothermal synthesis of CoSnO3 nanocubes-incorporated graphitic carbon nitride for the efficient photodegradation of organic dye and antibiotic drug, Journal of Alloys and Compounds (Submitted to Journal). *Diamond and Related Materials*, 148 (2024) 111495, ISSN 0925-9635, https://doi.org/10.1016/j.diamond.2024.111495.
14. M. Subbulakshmi, **K. Leeladevi,** T. Kavitha, and P. Sarojini published a paper entitled Multifunctional -CD Ag/Cu Nanocomposite with Spongy Cotton Bud-Like Architecture for Photocatalytic and Biological Applications “Asian Journal of Chemistry” Vol. 38, No.6 (2026), 1581-1588. Published on 31-05-2026. (DOI: https://doi.org/10.14233/ajchem.2026.35714.

4.2 Conference Publications

1. **K. Leeladevi,** J. Vinoth kumar, M. Thiruppathi, E. R. Nagarajan, $CoWO_4$ Nanospheres based simple co-precipitation route for photocatalytic degradation of organic pollutant,

International Conference on *Recent Trends in Chemistry and Biosciences (ICRTCB 2019)* at Madurai Kamaraj University, Madurai on 16&17th May, 2019.

2. **K. Leeladevi,** E.R**.** Nagarajan, Fabrication of sphere-like $CoSnO_3$ via hydrothermal route for the photocatalytic degradation of organic pollutant in International Seminar on*Recent Trends in Interdisciplinary Science (RTIS 2019)* at The Standard Fireworks Rajaratnam College for women, Sivakasi, Tamil Nadu on 20th September, 2019.
3. **K. Leeladevi,** E. R. Nagarajan, "Straight-forward synthesis of sponge-sphere like Cobalt tungstate: An efficient photocatalyst for dedying" *International Conference on sustainable development (Kalasalingam Global Conference KGC-2020) held at* Kalasalingam academy of research and education, Krishnankoil, Tamil Nadu on 18-20 December 2019
4. **K. Leeladevi,** E.R**.** Nagarajan, A Novel three dimensional $CoMn_2O_4$ Nanosphere for the reduction of ciprofloxacin International Seminar on "*Emerging Trends in chemistry & Energy Science"* organized by PG & Research Department of Chemistry, Saraswathi Narayanan College, Madurai on 07 February 2020.
5. **K. Leeladevi, "**Fabrication of Novel Rice-like CoMoO4 Nanoparticles decorated with GO: An efficient visible light candidate for the degradation of Organic Moiety", *National Conference on Materials and Mathematical Sciences (NCMMS-2023*) held on March 30 & 31, 2023 organized by School of Advanced Sciences, Kalasalingam academy of research and education, Krishnankoil, Tamil Nadu.
6. M. Muralisankar, **K. Leeladevi,** P. Murugan and O. Senthilkumar, Presented a paper entitled "Highly efficient visible light active Titanium based photocatalyst for the degradation of dye molecules and their kinetics" in the International Conference on Sustainable Development in Advanced Materials, Manufacturing and Industry 4.0 held at Kalasalingam Academy of Research and Education, Krishnankoil on 27-28 March 2025.
7. **Dr.K.Leeladevi,** attended a A Two Day National Level Capacity Building Programme "Collaborative Innovation: How Multidisciplinary Research is Shaping the Future," organized by Central Library, RIT, and RIT Research Council, Research Department of Physics & RIT Institution's Innovation Council in association with Society for the Advancement of Library and Information Science (SALIS) from 28.03.2025 - 29.03.2025.
8. M. Muralisankar, **K. Leeladevi**, C. Revathi and O. Senthilkumar, Presented a paper entitled

"Highly efficient visible light active titanium based photocatalyst for the degradation of dye molecules and their kinetics" in the International Conference on Materials Science and Manufacturing Technology 2025 (ICMSMT 2025) held at Akshaya College of Engineering and Technology, Coimbatore, Tamil Nadu, India during 26 - 27, June 2025.

4.3 Book/Book chapter publications: 1

Engineering Chemistry, 2024 Edition, Pearson.

5. Funded Projects – Submitted-1

Edible Plates: A Sustainable Alternative to Disposable Tableware" under Ministry of Micro, Small and Medium Enterprises (MSME) with the budget of Rs. 15, 00,000 (One year Project) on 10.10.2024.

6. Ph.D. Guidance – Nil

7. Short-term Courses / Seminars /FDP/Workshop/Conferences attended:

Short-term Courses

1. UGC-Sponsored Short Term Programme in Environmental Studies, organized by the UGC-Malaviya Mission Teacher Training Centre, Bharathidasan University from 05.08.2025 to 11.08.2025

Faculty Development Programme Attended

Sl.No	Name of the Programme or Event	Duration		Total number of days
		From	To	
1	Recent advances and Research avenues In Material Science (RRM-2020)	08-06-2020	14-06-2020	7
2	Advanced Molecular Chemistry	01-06-2020	03-06-2020	3
3	Managing Online Classes & Co-creating MOOCS 26.0	08-05-2023	22-05-2023	15
4	Theoretical & Experimental Physics	29-05-2023	03-06-2023	6
5	NEP 2020 Orientation & Sensitization Programme	18-03-2024	27-03-2024	10
6	ATAL FDP on Advanced Materials and Critical Minerals: Innovations and Applications	20.01.2025	25.01.2025	6
7	NITTTR-supported Professional	16.07.2025	21.07.2025	5

	Development Programme (PDP) on "Educational Video Production,			

Seminar

Seminar/Webinar/Lecture Attended

Sl.No	Name of the Programme or Event	Duration		Total number of days
		From	To	
1	International Seminar on Recent Trends in Interdisciplinary Science (RTIS 2019)	20-09-2019		1
2	Emerging Trends in chemistry & Energy Science	07-02-2020		1
3	The National Webinar on "Nonlinear Optical Behavior of Nanomaterials"	28-05-2020		1
4	.International webinar entitled "Nano - The Tiny Warrior"- Engineering Nanomedicine and Drug Delivery System	30-05-2020		1
5	One week International Webinar On "CHEM-BIOGRID-IWCBG-20	03-06-2020	09-06-2020	7
6	International Webinar on Local probe techniques: A microscopic look at physical properties in matter	10-06-2020		1
7	One-day webinar on YOGA - AN IMMUNITY ENHANCER	21-06-2020		1
8	Food Safety and Security during COVID- 19 Pandemic	22-06-2020		1
9	One-Day Webinar on Functional Porous Materials Based on Acrylonitrile Polymers	10-07-2020		1
10	One Day Webinar on Synthetic Applications Of Donar-Acceptor Cyclopropanes	13-07-2020		1
11	ACT National webinar on Instrumental Methods of Analysis (NWIMA-2020)	17-10-2020	18-10-2020	2
12	Webinar on "FT-IR SPECTROSCOPY	31-07-2020		1
13	Workshop on Protect your Innovations: A Comprehensive Guide to IPR"	09.12.2024		1/2
14	National Level Capacity Building Programme "Collaborative	28.03.2025	29.03.2025	2

	Innovation: How Multidisciplinary Research is Shaping the Future			
15	An Art of Writing Research Proposals for Various Funding Agencies	25-02-2026	26-02-2026	2
16	R & D Conclave 2024 for Faculty members and Researchers	26.12.2024		1

Workshop

Workshop Attended

Sl.No	Name of the Programme or Event	Duration		Total number of days
		From	To	
1	Materials Characterization Techniques	24-02-2015		1
2	Impedance Spectroscopy and its Application	02-03-2016		1

8. Short-term Courses / Seminars /FDP/Workshop/Conference organized: Nil

9. Online Courses

Sl.No	Course title	University	Date
1	Introduction to Molecular Spectroscopy	University of Manchester	03-06-2024
2	Mathematics for Machine Learning: Linear Algebra	Imperial College London	02.08.2024
3	Introduction to Mathematical Thinking	Stanford University	24.04.2025
4	Basic Mathematics	Birla Institute of Technology, Pilani	05.06.2025
5	Introduction to Materials Science	Arizona State University	15.07.2025
6	Air Pollution and Control	IIT Roorkee	14.05.2026

10. Patents filed/awarded: Nil

11. Membership in Professional societies: Nil

12. Awards, Recognition & Achievements: Nil

Acted as a Reviewer

Sl.No	Name of the Journal	Invitation Date
1	Current Journal of Applied Science and Technology	25-05-2024
2	Asian Journal of Applied Chemistry Research	11-06-2024

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