

FACULTY PROFILE

Name : Dr. V. Ramasubbu
Designation : Assistant Professor (Sr. Grade)
Department : S&H (Physics)
Official address for Communication : Department of science and humanities (S&H) (Physics),
National Engineering College,
K. R. Nagar,
Kovilpatti - 628503.
Official E-mail Id : ramasubbu@nec.edu.in
Mobile Number : 97512 82159



1. Personal Details:

Date of Birth & Age : 25/03/1986 & 39
Sex & Marital Status : Male & Married
Nationality : Indian

Qualification :

Degree	Programme and Specialization	Class	Month & Year of Passing	Institute/University
Ph. D	(Full Time, Nanomaterials)	-	January 2020	Anna University, Chennai.
M. Phil	Physics	First	July 2010	Madurai Kamaraj University, Madurai.
M. Sc	Physics	First	July 2008	Thiagarajar College, Madurai.
B. Sc	Physics	First	April 2006	Madurai Kamaraj University, Madurai.

Professional Experience :

Designation	Institution/ Organisation	Period	Nature of Duties
Asst. Prof.,	National Engineering College, Kovilpatti	2021-till date	Tutor, Exam wing member
Asst. Prof.,	Fathima Michael College of Engineering and Technology, Madurai.	2012-2013	Teaching
Lecturer	Theni Kammavar Sangam College of Technology, Theni.	2011-2012	Class Incharge, Teaching

Date of joining : 01.10.2021
Present status : Assistant Professor (Sr. Grade)

Courses taught:

Course Title	U.G. or P.G.
Engineering Physics I	U.G.
Engineering Physics II	U.G.
Physics for Civil Engineering	U.G.
Physics of Materials	U.G.
Semiconductor Physics	U.G.
Semiconductor and Quantum Physics	U.G.
Materials Science	U.G.
Semiconductor Physics and Digital Electronics	U.G.
Nanomaterials for Engineers	U.G.
Innovation Through Design Thinking	U.G.

2. Academic Achievements**2.1 Short term Courses / Seminars / Conference/ Workshops organized:**

S.No	Title	Dates	Responsibility
1.	International Webinar on Electrochemical Energy Storage Devices	05.01.2023	Organizer
2.	Way to Success 2K23, a career guidance programme for +2 students	09.06.2023	Organizer
3.	Online Objective Test 2k24, State-level online MCQ test for +2 students (Physics, chemistry, Maths Volume 1 & 2)	24.12.2023 to 04.02.2024 (on every Sundays)	Organizer
4.	Silaiyum Neeeye, Sirpiyum Neeeye, a career guidance conclave, for +2 students	23.03.2024	Organizer

2.2 Short term Courses / Seminars / Conference / Workshops Attended :

S.No	Title	Programme	Date	Venue
1.	Instructional design and delivery systems	Professional Development Programme By NITTTR, Chennai	16 – 18 May 2024	National Engineering College, Kovilpatti
2.	Recent Advances and Challenges in Additive Manufacturing Nanostructured Materials	DST-SERB Sponsored National Level Seminar	28-29 th April 2023	National Engineering College, Kovilpatti
3.	Multidisciplinary aspects in chemistry	Second International conference (Virtual)	09-10 th February 2023	Sri Ramakrishna Arts & Science College, Coimbatore.
4.	Nanomaterials For Sustainable	Five-Day online Faculty Development	12-16 th December	GMR Institute of Technology, Rajam,

	Future	Programme	2022	Andhra Pradesh, India.
5.	Thermoelectric Materials and Applications	International Workshop on (Virtual Mode)	24-25 th August 2022	SSN Research Centre, SSN Institutions, Chennai.
6.	Emerging Photovoltaic Materials and Technologies	International Conference on Emerging Photovoltaic Materials and Technologies (ICEPV-2022) (Virtual Mode)	27 th -29 th April 2022	Baskent University, Ankara, Turkey
7.	Development of Advanced Materials for Future Technologies	3 rd Indo-Korea Virtual Conference on Development of Advanced Materials for Future Technologies (DAMFT-2022)	22-23 April 2022	Vellore Institute of Technology (VIT), Chennai, Tamilnadu.
8.	Scientific Communications	CSIR-NPL & INYAS Two Days online Workshop on “Scientific Communications”	25-26 March 2022	CSIR-National Physical Laboratory (NPL), New Delhi, India.
9.	Nanomaterials for Solar Cell Applications	One-day National Level webinar	10 th June 2020	AMET University, Chennai.
10.	Enhanced photovoltaic performance of TiO ₂ aerogel-Co-BTC metal organic framework composites based quasi-solid dye-sensitized solar cells (QSDSCs)	6 th International Conference on Functional Materials and Devices (ICFMD-17)	15-18 th Aug 2017	Centre for Ionics, University of Malaya, Malaysia.
11..	Titania aerogel-Metal Organic Framework composites as photoanode for Dye-Sensitized Solar Cells	International workshops on Advanced functional Nanomaterials – 4 th Edition (IWAN-4)	22-24 th March 2017	Centre for Nanoscience and Technology, Anna University, Chennai.
12.		Annual Lecture Workshop on Advanced Materials	11-12 th Oct 2018	PSN College of Engg. &Tech., Tirunelveli.
13.	Synthesis and characterization of Cu-BTC-Titania aerogel	National Conference on Materials Science and Technology (NCMST-16)	12-14 th July 2016	Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala.
14.		National workshop and Hands on Training Programme on Thin Film Solar	11-12 th Nov 2016	Centre for Nanoscience and Technology, Anna

		Cells		University, Chennai.
15.	Synthesis and characterization of TiO ₂ aerogel metal organic framework composites.	International conference on Nanomaterials for Energy, Environment, Catalysis and Sensors (ICNEECS-15)	11-12 th Dec 2015	School of Chemistry, Madurai Kamaraj University, Madurai.
16.	Dielectric studies on MOF-Aerogel composites	National Conference on Materials Science and Technology (NCMST-15)	6-8 July 2015	Indian Institute of Space Science and Technology, Thiruvananthapuram, Kerala.

3. Expert Lectures Delivered :

S. No	Title	Place	Programme	Date
		-		

4. Publications

Journal publications

International Journals : 08

International Conference : NIL

National Conference : NIL

I INTERNATIONAL JOURNAL PUBLICATIONS

Sl. No	Title of the paper	Authors	Journal	Vol., Pages Year
1.	Effect of deoxycholic acid co-sensitization in porphyrin dye on quasi-solid dye-sensitized solar cells comprising titania aerogel with a large surface area	P. Ramkumar, V. Ramasubbu	Solid State Electronics	198, 108480, 2022.
2.	Zn(II) porphyrin sensitized (TiO ₂ @Cd-MOF) nanocomposite aerogel as novel photocatalyst for the effective degradation of methyl orange (MO) dye	V. Ramasubbu, P. Ramkumar, T. Chellapandi, G. Madhumitha, E. M. Mothi, X. Sahaya Shajan	Optical Materials	132, 112558, 2022.
3.	Three-dimensional hierarchical nanostructured TiO ₂ aerogel/Cobalt based metal-organic framework (MOF) composite as an electrode material for supercapattery.	V. Ramasubbu, F. S. Omar, K. Ramesh, S. Ramesh, X. Sahaya Shajan	Journal of Energy Storage	32, 101750, 2020.
4.	Highly interconnected porous TiO ₂ -Ni-MOF composite aerogel photoanodes for high power conversion efficiency in quasi-solid dye-sensitized solar cells.	V. Ramasubbu, P. Ramkumar, E. M. Mothi, K. Karuppasamy, K. Hyun-Seok, T. Maiyalagan, X. Sahaya Shajan	Applied Surface Science	496, 143646, 2019.

5.	TiO ₂ aerogel-Cu-BTC metal-organic framework composites for enhanced photon absorption	V. Ramasubbu, S. Alwin, E. M. Mothi, X. Sahaya Shajan	Materials Letters	197, 236-240, 2017
6.	Porphyrin-sensitized quasi-solid solar cells with MOF composited titania aerogel photoanodes	P. Ramkumar, V. Ramasubbu, X. Sahaya Shajan, E. M. Mothi	Materials Today Energy	18, 100511, 2020
7.	TiO ₂ aerogel-metal organic framework nanocomposite: a new class of photoanode material for dye-sensitized solar cell applications.	S. Alwin, V. Ramasubbu, X. Sahaya Shajan	Bulletin of Materials Science	41, 27, 2018
8.	Effect of reaction period on stoichiometry, phase purity, and morphology of hydrothermally synthesized Cu ₂ NiSnS ₄ Nanopowder	G. Sahaya Dennish Babu, X. Sahaya Shajan, S. Alwin, V. Ramasubbu, Gopal M. Balerao	Journal of Electronic Materials	47(1), 312-322, 2018

II INTERNATIONAL CONFERENCE PUBLICATIONS

Sl. No	Title of the paper	Authors	Name of the conference	Venue	Pages Date
	-				

III NATIONAL CONFERENCE PUBLICATIONS

Sl. No	Title of the paper	Authors	Name of the conference	Venue	Pages Date
	-				

5. COURSES COMPLETION

Sl. No	Name of the Course	Organizer	Score	Result	Academic Year
1	Solar Photovoltaics Fundamentals, Technology, and Applications	NPTEL	64%	Elite	Jul-Sep 2022
2	Solid State Physics	NPTEL	60%	Elite	Jul-Oct 2022
3	Design Thinking	NPTEL	72%	Elite	Jul-Aug 2023
4	Physics of Renewable Energy System	NPTEL	75%	Elite + Silver	Jul-Oct 2023
5	Physics of Functional Materials	NPTEL	66%	Elite	Jul-Oct 2024