



AALIMMUHAMMEDSALEGHCOLLEGE OF ENGINEERING

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DEPARTMENT OF SCIENCE AND HUMANITIES

NAME & INITIALS	SIVARANJANI R	
DESIGNATION	ASSISTANT PROFESSOR	
EDUCATIONAL QUALIFICATION	M.Sc	
EXPERIENCE	NIL	
DATE OF JOINING	06/10/2025	
E-MAIL ID	ranjaniram1896@gmail.com	
AREA OF SPECIALISATION	Physics	

EDUCATIONAL QUALIFICATION

DEGREE	BRANCH / SPECIALIZATION	INSTITUTION	UNIVERSITY	YEAR
B. Sc	Physics	Anna Adharsh College for Women	University of Madras	2013-2016
M. Sc	Physics	Pachaiyappas's College	University of Madras	2016-2018

PROFESSIONAL MEMBERSHIPS

FDP ATTENDED**WORKSHOPS ATTENDED**

Participated in the International workshop on “Academic Writing-Ethical issues” September 16th – 18th 2023 held in Global Institute of Statistical Solutions.

Participated in workshop on “Problem solving Technologies in CSIR-NET exam in Physics” conducted by Department of Physics, at Bhakthavatchalam Memorial College for Women on 22nd – 23rd Sep. 2023.

SEMINARS ATTENDED

Attended one day seminar on “ENERGY MATERIALS” organized by centre of Excellence for Energy Research, Centre for nano science and Nanotechnology, Sathyabama Institute of Science and Technology, Chennai, On 4 June, 2021.

Attended National Webinar on “Optical Quality Crystals for Device Fabrication”, organized by PG and Research Department of Physics, Pachaiyappa’s College, Chennai-600030, Tamilnadu, India on 28th August 2021.

Attended National Webinar on “Nano engineered Materials for Catalytic Water Splitting: Fundamental Aspects and Challenges” organized by the PG and Research Department of Physics, Pachaiyappa’s College, Chennai-600030, Tamilnadu, India on 11th Sep. 2021.

Attended National Webinar on “Prospectives of Thermoelectric Materials” organized by the Department of Physics, C. Kandaswami Naidu College for Men, Anna Nagar East, Chennai on 11th Oct. 2021.

Participated in the lectures by Dr. E. Varadharajan, DRDO and Dr. V. Kumaresan, Anna University on 14th , July 2022 organized by SSN Institutions, Kalavakkam, Chennai-603110, in association with Elavenil Science Association & Indian Science and Technology Association.

Participated in the one day symposium on “Advanced Materials for Sustainable Future in virtual mode, organized by the Department of Physics in association with the Department of Chemistry, Research Council & Institution Innovation Council of Ramco Institute of technology, Rajapalayam on 08-01-2023.
Participated in online National Seminar on “Impact of Environmental Toxicants in Human Life” organized by the Department of Biotechnology, College of Science and Humanities, SRM Institute of Science and Technology, Ramapuram Campus, Chennai-600089 on 13th June 2023.
Presented Research Article Entitled Growth, spectral, optical and thermal studies on Hexamethylenetetramine L-tartrate (HMTLT) Non-linear optical single crystal in the 2nd International Symposium on “MODELING OF CRYSTAL GROWTH PROCESS AND DEVICES”, during 5-8, July 2021 Organized by the SSN Research centre, SSN Institutions, Kalavakkam, Chennai-603110, Tamilnadu, India.
Presented Research article on 6th International conference on recent trends in applied Science and technology at University of Madras on 16-17 March 2023 ISBN No: 978-81970917-9-7.
Presented Research article entitled “Growth and Characterization of Magnesium bis(p-nitrophenolate) dihydrate (MBPND) single crystal” in 7th International conference on recent innovations in modern science and Technology (ICRIMST-2024) at KPR Institute of Engineering and Technology on 9-11 Jan 2024.
Presented Research article entitled “evaluation of growth, optical and thermal properties of NLO crystal: Theophylline p-nitrophenol at the International Conference on emerging advanced materials (ICEAM-2024) held during 27-28 March 2024
Presented Research article entitled “Studies on hexamine p-nitrophenol monohydrate (HPNM) for NLO applications” in the International Conference on Advanced materials and Technologies (AMT-2025) & Indo-Japan Workshop on Machine learning for Advancing crystal growth technology (MLACGT-2025) Organized by SSN Research centre, during 7-9 January 2025.
சிவசுப்ரமணியநாடார்கல்விநிறுவனங்கள்மற்றும்இந்தியபடிகவளர்ச்சிஅமைப்புஇணைந்து, 2022-ம்வருடம்ஜனவரிமாதம் 10-ம்தேதிமுதல் 12-ம்தேதிவரைஇணையவழியில்நடத்தியபடிகவளர்ச்சிமற்றும்படிகங்களின் தொழில்நுட்பபயன்பாடுகள்குறித்தபன்னாட்டுகாருத்தரங்கில்பங்கேற்றுஆய்வினைசுவரொட்டிமூலம்உரையாகவழங்கினார்.

PUBLICATIONDETAILS

<p>Exploring linear and nonlinear optical behaviour of morpholine p-nitrophenol crystal: computational and experimental analysis</p> <p>R Sivaranjani, A. Suvitha, Medhansh Garg, T. Arumanayagam, Chemical Physics Impact 7 (2023) 100363.</p>
<p>Experimental and DFT perspectives: exploring spectral, linear and nonlinear optical properties of p-nitrophenol complex crystal for NLO applications</p> <p>R. Sivaranjani, A. Suvitha, Noul Alharbi, T. Arumanayagam, J. Mater. Sci:Mater. Electron (2024) 35:1796.</p>
<p>நேரியலற்றபயன்பாடுகளுக்கானஹெக்ஸமைன்டார்ட்ரேட் (HMT) ஒற்றைப்படிகத்தின்வளர்ச்சிமற்றும்குணாதிசயம்</p> <p>ரா. சிவரஞ்சனி, த. அருமநாயகம், ISBN: 978-81-970917-9-7</p>
<p>Experimental and DFT approaches on linear and nonlinear optical behaviour of magnesium bis (p-nitrophenolate) dihydrate crystal</p> <p>R.Sivaranjani, A.Suvitha, Ananth Steephen, T.Arumanayagam, J. Mater. Sci.: Mater. Electron., (2025) 36:1302.</p>

PATENTDETAILS

ACHIEVEMENTDETAILS

