



NAME : Dr. G. RAMALINGAM
DESIGNATION : Assistant Professor

Address : Quantum Materials Research Lab(QMRL)
 Department of Nanoscience and Technology
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Academic Qualifications

Degree	Institution	Year	Branch	Class
M.Sc(Physics)	University of Madras/Loyola College	2007	Physics	First class
B.Ed(Physical Science)	University of Madras	2008	Physics	First class
M.Phil(Physics)	University of Madras/Loyola College	2009	Physics	First class
Ph.D(Physics)	University of Madras	2012	Physics	Degree awarded

Teaching Experience:

Total Teaching Experience : 13 Years and 6 months

Position	Institution	Duration
Assistance Professor	Alagappa University	(11-02-2016) to till date
Assistance Professor (Adhoc)	National Institute of Technology (NIT), Calicut-Kerala	(27-05-2015) to (17-12-2015) (6-Months)
Guest Faculty	Central University of Tamil Nadu, Thiruvarur.	(29-12-2014) to (22-5-2015)
		(3-9-2014) to (26-12-2014)
Lecturer	Sathyabama University, Chennai	(10-08-2011) to (02-07-2013)

Research Experience

Total Research Experience : Years 12

Academic and Additional Responsibilities

S. No	Position	University Bodies	Period	
			From	To
1	Department IQAC coordinator	Alagappa University	2016	Till date
2	University Coordinator SWAYAM	Alagappa University	9-02-2024	Till date
4	Stock verification officer	Alagappa University	30-07-2018	Till date

Areas of Research

Quantum/Nanomaterials Research (QMR)

- ❖ Semiconductor Nanomaterials for Solar cell, Quantum LEDs (Q-LEDs) and Other Energy harvesting application.
- ❖ Graphene Quantum Dots for Industrial Application
- ❖ H₂ storage, CO₂ capture and make useful products through C-H activation chemistry
- ❖ Highly luminescence Nano-materials for Bio-imaging, Bio-Tagging and Nano Drug Delivery system for anti-cancer Treatment etc.,

Research Supervision/Guidance

Program of Study		Completed	Ongoing
Research	Ph.D	1	4
	M.Phil	2	-
	PG	35	4
Project	UG/ Others	-	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books/Chapters/Monographs/Manuals
86	20	4	30	03

Cumulative Impact Factor (as per JCR) :372.725+

h-index :30 +

i10 index :38 +

Total Citations :3101+

Ongoing Projects:

Funded Research Projects

S.No	Agency	Period		Project Title	Budget (Rs.)
		From	To		
1	UGC- DAE-CSR 	2025-2028		Room Temperature Ferromagnetic Behaviour of Vanadium based 2D nanomaterials (PI)	7,00, 000
2	UGC India, HVL- Norway	2025-2027		Indo-Norway Collaborative project – 2 – Advanced Nanomaterials for Clean Energy and Health applications PI: Prof.G. Ravi (Co-PI: Dr.G.Ramalingam)	2,00,00,000
3	CMRG- TN Govt.	2025-2028		Porphyrin Phospholipid liposome-mediated Chemophototherapy targetting breast cancer cell lines (Co-PI)	31,00,000

Completed Projects:

S. No	Agency	Period		Project Title	Budget (Rs.)
		From	To		
1	AURF- Start up grant 	2017-2019		Quantum Dots for Bio-Imaging Applications	1,00,000/-
2	 TNSCST	2019-2020		TNSCST-Young Scientist Fellowship	15,100/-
3	DST-SERB	2017-2020		Fabrication of One Dimensional (1-D)	24,75,000/-

			Nanomaterial with Quantum Dots (QDs) for Solar Cell Application	
4	MHRD-SPARC +  	2019-2023	2D-QDs (Two Dimensional QDs): Synthesis and Applications in Electroluminescent diodes, Sensors and Solar Cells Host: Brunel University, London	72,00,000/-
5	RUSA-TBRP 	2019-2023	Advanced Nanomaterials for Energy and Environmental Application	10,00,000/-
6	DST-SERB 	2022-2023	ICANEE-2023	1,50,000/-
7	RUSA-EIR 	2022-2023	Mxene Based Nanoink for Pervioskite Solar Cell (Co-PI: Janana Priya V)	50,000/-
8	RUSA-EIR 	2022-2023	Preparation of Novel Transition metal carbides and composites for hybrid super capacitor application (Co-PI: T.Keerthana)	50,000/-

Other Fund Received as Research Mentor:

S.No	Agency	Period		Project Title	Budget (Rs.)
		From	To		
1	TNSCST	2022-2023		Inkjet printing of nano inks for scalable fabrication for dye sensitized solar cell	7,500/-
2		2018		AATRAL TAMIL SCIENCE MAGAZINE	10,000/-

Distinctive Achievements / Awards

1. Ariviyal Mudhumunaivar **Sethu. Gunasekaran Award**" by Indian Spectro Physics Association (ISPA-2023) in Chennai
2. Best Research paper award at iCAM-2022 @Sathayabama University-Chennai
3. **Promising Researcher award-2022** by Alagappa University
4. Alagappan **Research Recognizing Award-2020, 2023** by Alagappa University
5. Certificate of Appreciation for RUSA 2.0 – 2020 for increasing H-Index
6. Award of **Young Scientist** Fellowship from Tamil Nadu State Science and Technology (Government of Tamil Nadu) **TNSCST-2019**.
7. Innovative Scientific Research Technologist & Dedicated Academician (Nanoscience &Tech.) award by global awards-Malaysia **(2018)**
8. Best Research paper award at IIT-Madras **(ISRS2010)**
9. Award and prize of General Proficiency in Physics(B.Sc) –Voorhees College Vellore
10. Prize of Best Student award (B.Sc) -Voorhees College Vellore
11. Awarded third position for motivating the students to secure good results in **UGC-Swayam/MOOCs** on may 19-2024, Alagappa University.

Events organized in leading roles

Number of Seminars /Conferences / Workshops / Events organized: **08**

Position	Programme	Year	Institution
Organizer	Book talk programme	2026	Alagappa University
VEP Coordinator	Camp coordinator of the department	2025	Alagappa University
Organizer	Awareness meeting of UGC-DAE-CSR on utilization of in-house and large scale DAE facilities	2025	Alagappa University
Event Coordinator	Design thinking, Critical thinking and Innovation design, 26-02-2025, ALU-IIC, Department of Nanoscience and Technology	2025	Alagappa University
Convener & Organizing Secretary, DST-SERB Sponsor	2 nd International Virtual Conference on Advanced Nanomaterials for Energy and Environmental Applications (ICANEE-2023),	18-21 th Feb 2023	Alagappa University
Convener & Organizing Secretary	Indo - UK International Virtual Conference on Advanced Nanomaterials for Energy and Environmental Applications (ICANEE-2020)	16-18 th Sep 2020	Alagappa University
Organizing Secretary	Three Days International Virtual Seminar on The Role of Nanotechnology Against COVID-19	20 -22 May 2020	Alagappa University
Organizing Secretary	International Conference Advanced Nanomaterials (ICAN-2018)	Feb 2018	Alagappa University
Organizing committee	National seminar on Nanomaterials for specialized application	2017	Alagappa University
Organizing Secretary	National seminar on World Standards day (WSD-2016)	2016	Alagappa University

Organizing committee	National Conference on Recent Advances in Materials and Technology (NCRAMAT-2012)	2012	Alagappa University
Organizing Secretary	Workshop on virtual lab and MOOCS	2018	Alagappa University

Events Presented & Participated

Number of Conferences/Seminars/Workshops:50

List of Invited Talk

S.No.	Name of the Conference, Year, Place & Duration
1	Advanced Nanomaterials for Engineering Applications , 17/04/2025 Department of Physics and the craters club at K.Ramakrishnan College of Engineering, Samayapuram, Trichy
2	Functional nanomaterials for optical and energy storage applications, Department of Materials science, School of Technology, 21/03/2025-22/03/2025 Central University of Tamil Nadu, Thiruvavur.
3	2D-Layers nanomaterials for energy storage applications, Department of Physics, 11/03/2025 Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli-5, Tamil Nadu.
4	Synthesis and characterization of Nanomaterials, 04/03/2025 G.T.N Arts College (Autonomous), Dindigul.
5	Nano Architectonics of 2D-Nanosheets for Integrated Energy Harvesting and Storage Applications, SSN Research Centre, 01/07/2024-03/07/2024 SSN Institutions, Chennai -603110
6	26 th National seminar on crystal growth and applications (XXVI NSCGA-2024). “High Fluorescent Carbon Quantum Dots (CQD) for Non-linear Optical Applications”. 29-31 August, 2024. organized by, Department of physics, Bharathidasan University, Tiruchirappalli-620024.
7	Keywords in Tamil, 10/03/2023, Senthamizh Sorppirappuyal Agarmudhali thitaiyakam, Chennai
8	Fabrication Methods and Challenges of Large Area Dye Sensitized Solar Cells, 12/01/2023 – 13/01/2023, Cardamom Planters Association College, Theni Dist.
9	Energy Summit 2022. “Green Solvent Exfoliation of Few Layers 2D MoS ₂ Nanosheets for Efficient Supercapacitor and Solar Cell Application”. IIT Madras Research Park, 8-9 December, 2022.

10	Advanced Materials – The way to Sustainable Development, 12/10/2022, Sri Sarada College for Women
11	Second International Conference on Advancements in Material Science and Technology, 2-4 November, 2022, Sathyabama Institute Of Science and Technology, Chennai.
12	Scope and Career Opportunities for Physics Graduates, 22/10/2021, St Xavier College, Palayamkottai
13	02/08/2021 – 06/08/2021, Virtual programme by Alagappa University and Brunel University, London
14	Device Demonstrative and Future Perspective of QDSSC 13/07/2021 – 20/07/2021, PPG college of Arts and Science, Coimbatore
15	Inorganic and Organic Quantum dots for photoelectronics Applications. 22/06/2021 – 28/06/2021, Karpagam Academy of Higher Education, Coimbatore
16	National E-Conference on Advanced Research in Materials Science, 22-23 February, 2021. Organised by the department of Physics , Kamaraj college, Thoothukudi, Tamil Nadu-628003
17.	Frontier Area of Nanomaterials and its Applications Solar Cells, 03/02/2021, Adikavi Nannaya University, Rajamahendravaram
18	Facile Preparation of High Fluorescent Carbon Quantum Dots from Bio-waste Peels for Nonlinear Optical Applications, 26/12/2020- 29/12/2020, Bharathidasan University, Tiruchirapalli.
19	Developments of Nanomaterials for Dye Sensitized Solar Cells, 17/12/2020 – 18/12/2020, Sri Sivasubramaniya Nadar College of Engineering, Chennai.
20	Higher Education Opportunities for Science Students, 3-12-2020, Sacred Heart college, Tirupattur.
21	Advances In Crystal Growth and Nano Materials, 18th June, 2020, Kamaraj College, Thoothukudi, Tamil Nadu-628003
22	Smart Material Sensors and Energy Devices, 25th-30th May, 2020. Organised by department of Electronics and Communication Engineering, SSN College of Engineering, Kalavakkam-603110
23	QDSSC for solar cell Application and Prospective of Physics Graduation, 09/03/2020, Holy cross college, Trichy
24	Recent Developments of quantum dots Sensitized Solar Cells: Concepts and Experimental, 06/02/2020, Government Arts College, Salem
25	Concept and Development Growth Aspect of Quantum Dot Sensitized Solar Cells (QDSSC), 24/01/2020, St Joseph College of Arts and Science, Cuddalore
26	Perspectives in Physics Graduation, 04/09/2019, Raja Doraisingam Government Arts College, Sivagangai.
27	Nanomaterial for solar cell application, 26/08/2019, Aditanar College of Arts and science, Tiruchendur.
28	Simultaneous Growth of CdS Nanoparticles and Photoanode TiO ₂ microrods on FTO Substrate for Sensitized Solar Cell, 01/02/2019, Vanniaperumal college for women, Virudhunagar.
29	Design, Synthesis and Physical properties of (core/shell) Quantum Dots, 28/01/2019 - 30/01/2019, SRM Institute of Science and Technology, Kattankulathur.
30	Global Educationalist- Professional Meet SERIS-National University of Singapore 18th October, 2018, Singapore, Malaysia.
31	Frontier Area of Nanotechnology and Hope for Science Graduate, 1st October, 2018, Sriram College of Arts and Science, Thiruvallur.
32	National Conference on Preparation and Characterization of Crystalline Materials NCPCCM,

	5th and 6th September, 2017, Government Arts College, Tiruvannamalai.
33	National Conference on Enhancing Entrepreneurship and Innovation in Biotechnology for Sustainable Development, 28th and 29th July, 2017, Rajah's college, Pudukkottai.
34	Frontier Area of Nanocrystalline Structure and Opportunity in the Field of Science, 7-7-2017, Mother Teresa Women's University, Kodaikanal.
35	National Conference on Preparation and Characterization of Crystalline Materials NCPCCM, 4th and 5th August, 2016, Government Arts College, Tiruvannamalai
36	Inaugural Address of the Physics Association, 19-07-2016, Department of Physics, St, Joseph's College, Tiruchirapalli,
37	International Symposium on bioplastics- ISB-23., Organized by department of microbiology, office of industry and consultancy and university business collaboration center (UBCC) Alagappa University, Karaikudi held on 12 th & 13 th September, 2023.
38	Recent advancement in smart materials for sustainable energy applications., Organized by center for nanoscience and nanotechnology international research center from 20 th November to 25 th November 2023.
39	Understanding the intellectual property system and its associated rights., State-level technical workshop on 26 th April 2024 at science campus, Alagappa university
40	Indian nanoelectronics users programme- idea to innovation (INUP-i2i), awareness workshop., Fabrication & characterization facility for nanotechnology, held at IIT Delhi during 22-23 june (2023).
41	Artificial intelligence assisted science education., Organized by AIU- Avinashilingam institute-academic & administrative development center (AIU-AI-AADC) & CMLI & school of physical science and computational science from 15.07.2024 to 19.07.2024
42	One day workshop on inter/intra institutional start-up competition and reward best start ups 2024. Battery Technology , 19/08/2024, Institutional Innovation Council (IIC), Alagappa University
43	INUP Users' Meet , 10/08/2024, IIT Bombay.

Overseas Exposure/Visits

- 1. University of Mara Technological University -Malaysia** Participated & presented International Award Function - Innovative Research (Social Work) & Dedicated Academician Award, 2018. Global Professionals – Educationalist Awards & Honours Convocation at International Convention on Innovative Scientific Research Strategies, Kulalambur, Malaysia (Alagappa University Funding)
- 2. National University of Singapore (NUS)-** Participated Research and Exhibition of Solar Unit - National University of Singapore, October, 2018. (Alagappa University Funding)

Collaboration Country

- 3. Brunel University, London**
- 4. INL – International Iberian Nanotechnology Laboratory, Portugal**
- 5. CSIR lab-Pretoria, South Africa**
- 6. Ural Federal University, Russia**
- 7. Delaware State University -USA**
- 8. Copperbelt University (CBU)- Zambia**
- 9. National Water & Energy Center, UAE University, UAE**
- 10. Adolfo Ibanez University, CHILE**

Membership

Professional Bodies

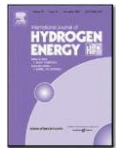
1. Membership in IEEE
2. Member of Physics today- USA
3. Member International Nanoscience community
4. Member of Science and Engineering Institute
5. Life member of Material Research Society India (MRSI), IISc Bangalore
6. Life Member of Indian Science Congress Association (INSCA)
7. Life Member International Nanocrystal
8. Life Member in Australian Nanotechnology Network
9. Members in International Science Community
10. Member of reviewer board in, international journal of nanodimension, Journal of materials in electronic (JMRC), ionics, Arabian Journal of Chemistry, ACS applied nano materials, ACS Omega, RSC Advances, PLOS one, Material chemistry physics letter, Current Nanomaterial -Bentham Science Publishers, Next sustainability, Molecules, Surfaces and interfaces, Inorganic chemistry communications, Heliyon, Environmental research, International journal of environmental research and public health etc.,

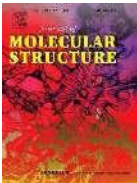
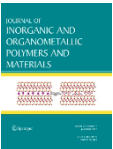
Ph.D. Thesis Guided

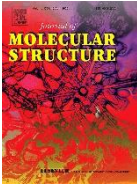
1. No. of PhD Thesis evaluated : 2
2. No. of PhD Public Viva Voce Examination : 1
conducted

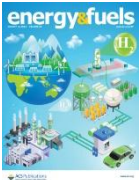
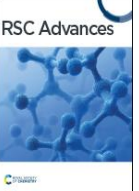
S.No	Name of the Scholar	Title of the Thesis	Year of Completion
1	B. Arjun Kumar	Nanoarchitectonics of Two Dimensional Nanosheets for Integrated Energy Harvesting and Storage Applications	2023

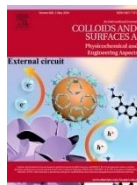
List of Research Articles / Recent Publications

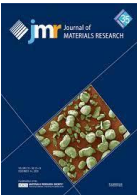
S. No	Authors/Title of the paper/Journal (SCOPUS)	Impact Factor
119	Keerthana, T., Ramalingam Gopal , C. Maria Magdalane, Mangalaraja Ramalinga Viswanathan, Mohammed Mujahid Alam, Mohamed Hussien, and Pin-Yi Chen. "Rationally designed ZnO/CNT/SiO ₂ nanocomposite for electrochemical device application." <i>Inorganic Chemistry Communications</i> (2026): 117169.	 5.9
118	Mahesh, R., S. Joseph Manoj Babu, A. R. Baby Suganthi, P. Sagayaraj, R. Gunaseelan, G. Ramalingam , and S. Selvakumar. "Cost-effective RBA-synthesised TiO ₂ nanotubes and noble metal (Pt, Pd)-modified TiO ₂ nanocomposites for high-performance supercapacitor and photocatalytic applications." <i>Journal of Materials Science: Materials in Electronics</i> 37, no. 19 (2026): 1462.	 3.2
117	Vaikundam, Muthulakshmi, Amutha Santhanam, Ponnuchamy Kumar, Gopal Ramalingam , and Paulraj Arunkumar. "Biomimetic pectin mediated hydroxyapatite based hybrid nanocomposite (pHAP/CMC/TiO ₂) as an implant coating for enhanced osseointegration." <i>Applied Surface Science</i> (2026): 167630.	 6.6
116	Staline. C, John Andrews, C. Maria Magdalane, Gopal Ramalingam , Saikh Mohammad Wabaidur, and Jaya Dwivedi. "High-performance CeO ₂ /rGO hybrid nanostructures as bifunctional electrocatalysts for water-splitting." <i>RSC advances</i> 16, no. 25 (2026): 22861-22878.	 6.1
115	Tungsten disulphide decked Ti ₃ C ₂ MXene for the efficient water splitting performance, S Hepsibha, C Maria Magdalane, Philominrajan Maria Viyanni, Gopal Ramalingam , International Journal of Hydrogen Energy, 2026, 209, 153433, https://doi.org/10.1016/j.ijhydene.2026.153433	 9.2
114	Taming Light with Carbon Dots, M Arun, Karthikeyan Alagarsamy, TC Sabri Girisun, Kannan Prabha, Murugan Perumal, Archana Pandi, Ramalingam Gopal , J Fluoresc. 2026, 36(3):2429-2439, https://doi.org/10.1007/s10895-026-04707-6	 3.4

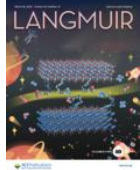
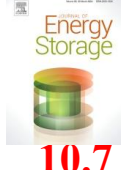
113	High-performance CeO 2/rGO hybrid nanostructures as bifunctional electrocatalysts for water-splitting, C Maria Magdalane, Gopal Ramalingam , Saikh Mohammad Wabaidur, Jaya Dwivedi, Royal Society of Chemistry, 2025, RSC Advances, 16, (25), 22861-22878, https://doi.org/10.1039/D5RA09363E	 6.1
112	Electrochemical investigation on ceria decorated reduced graphene oxide nanohybrid for energy storage device, M Somasundari, C Maria Magdalane, T Keerthana, Gopal Ramalingam , D Jayakumar, Diamond and Related Materials 2025, 112988 https://doi.org/10.1016/j.diamond.2025.112988	 5.2
111	Multifunctional activities of phytogenic ZnO nanoparticles mediated Anacardium occidentale: In-silico insights into Staphylococcus aureus biofilm-associated protein (BAP), Baranidharan Paramanathan, Chidambaram Jayaseelan, Ramalingam Gopal , Sivasankari Sekar, John Pradeep Ebenezer, Mani Ganesh, Jayabalan Jayaprakash, Journal of Molecular Structure, 2025, 144994. https://doi.org/10.1016/j.molstruc.2025.144994 .	 4.9
110	g-C3N4 integrated with MoS2/BiVO4 as a 2D/2D/1D heterojunction for enhanced photocatalytic activity under sunlight and DSSC performances, D Karthigaimuthu, Arjun Kumar Bojarajan, Aya AH Mourad, Gopal Ramalingam , Mohammed T Alotaibi, Elangovan Thangavel, Abdel Hamid I Mourad Environmental Technology & Innovation, Volume 40, 2025, 104382, https://doi.org/10.1016/j.eti.2025.104382	 7.3
109	A novel sunlight harvesting silver-doped carbon dot nanoprobe for the efficient photodegradation of cationic (Methylene Blue) and anionic (Alizarin Red S) dyes. R Jini Ayun, G Simiyon Gnanamani, T Mary Vergheese, C Maria Magdalane, Ramalingam Gopal , Inorganic Chemistry Communications, 180, 1, 2025, 114761, https://doi.org/10.1016/j.inoche.2025.114761	 5.9
108	Hydrothermal Synthesis of Ni ₂ P ₂ O ₇ Nanosheets Like Efficient Electrode for Supercapacitor Applications: Capacitive and Diffusive Mechanism of Trassati Method. M Silambarasan, R Boopathiraja, N Prabhu, S Manimegalai, T Keerthana, G Ramalingam , S Nirmaladevi <i>J Inorg Organomet Polym</i> 35 , 7364–7379 (2025). https://doi.org/10.1007/s10904-025-03747-y	 6.0

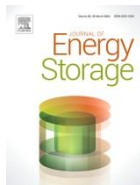
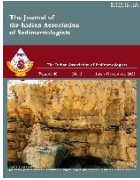
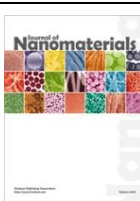
107	Hierarchical MoS ₂ incorporated Ti ₃ C ₂ MXene nanohybrids system for enhanced supercapacitor application., S. Hepsibha ^{1,4} · C. Maria Magdalane ¹ · T. Keerthana ² · Gopal Ramalingam · Nadarajah Manivannan ³ ., <i>Journal of Solid State Electrochemistry</i> (2025): 1-12. https://doi.org/10.1007/s10008-025-06335-9	 I.F: 2.6
106	Self-assembled and highly faceted Mn-doped vanadium pentoxide nanorods for supercapacitor electrode Keerthana, T., et al. "Self-assembled and highly faceted Mn-doped vanadium pentoxide nanorods for supercapacitor electrode." <i>Journal of Molecular Structure</i> 1330 (2025): 141493. https://doi.org/10.1016/j.molstruc.2025.141493 s	 4.0
105	"Enhanced Electrochemical Performance of (MoS ₂ @NiSe ₂)/0D/1D Hybrid Nanostructures for Supercapacitors." Dhanasekaran, Gokulnath, Nisha Parthiban, T. Keerthana, Ramalingam Gopal , Sambasivam Sangaraju, Sabyasachi Chakraborty, and T. Elangovan. Available at SSRN 5023533. B Materials Science and Engineering B 313 (2025) 117975 https://doi.org/10.1016/j.mseb.2024.117975	 5.6
104	A comparative investigation on the surface and physicochemical properties of organobimetallic thiocyanate complexes of Cadmium, Zinc, Mercury and Manganese. Cynthia, Sundararaj, Sankar Muthupandi, Gopal Ramalingam , Subbarayan Sathiyamurthy, Yassine Slimani, Munirah A. Almessiere, Abdulhadi Baykal et al. <i>Zeitschrift für Physikalische Chemie</i> (2024). https://doi.org/10.1515/zpch-2023-0536	 3.0
103	Direct Z-scheme heterojunction impregnated MoS ₂ -NiO-CuO nanohybrid for efficient photocatalyst and dye-sensitized solar cell. Dharmalingam, Karthigaimuthu, Arjun Kumar Bojarajan, Ramalingam Gopal , Elangovan Thangavel, Salah Addin Burhan Al Omari, and Sambasivam Sangaraju. <i>Scientific Reports</i> 14, no. 1 (2024): 14518. https://doi.org/10.1038/s41598-024-65163-5	 4.6
102	Nanoarchitectonics of MoS ₂ petals with 0D@2D carbon derivatives for integrated photocapacitor application., Keerthana, T., B. Arjun Kumar, Gopal Ramalingam , V. Vetrivelan, C. Ragupathi, R. V. Mangalaraja, Mohammed Mujahid Alam, and S. K. Anbukumaran. "Nanoarchitectonics of MoS ₂ petals with 0D@ 2D Carbon Derivatives for Integrated Photo Capacitor Application." <i>Journal of Alloys and Compounds</i> (2024): 177622.	 5.8

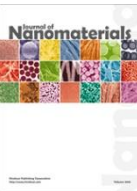
101	Green carbon nanospheres for integrated photo-supercapacitors device with improved efficiency. https://doi.org/10.1016/j.diamond.2024.111699 Arjunkumar, B., R. V. Mangalaraja, C. Ragupathi, Gopal Ramalingam, Mohammed Mujahid Alam, Abdullah G. Al-Sehemi, and S. K. Anbukumaran. "Green carbon nanospheres for integrated photo-supercapacitors device with improved efficiency." <i>Diamond and Related Materials</i> 150 (2024): 111699.	 4.3
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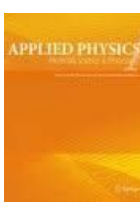
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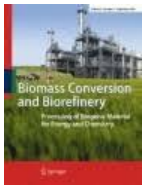
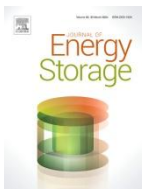
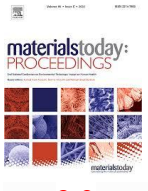
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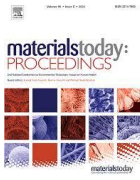
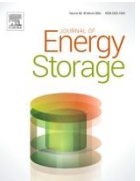
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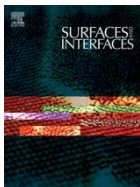
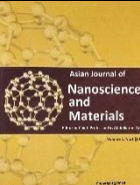
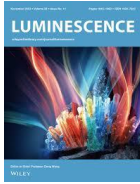
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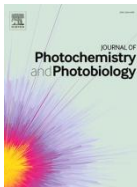
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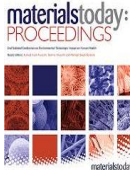
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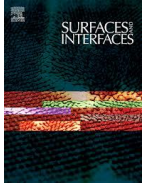
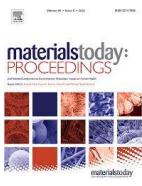
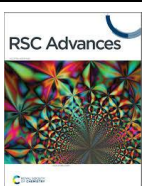
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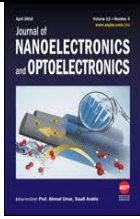
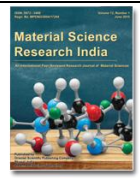
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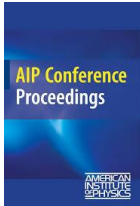
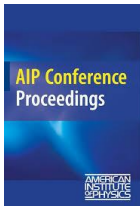
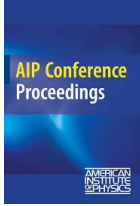
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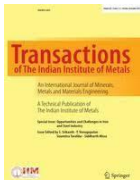
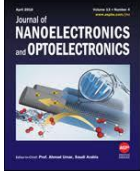
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