

<p>Name:</p> <p>Dr. S. DINESH</p>				
<p>Designation:</p>	<p>Associate Professor NSS Programme Officer Rover Scout Leader</p>			
<p>Qualification:</p>	<p>M.Sc., Ph.D., PDF (China)</p>			
<p>Area of specialization:</p>	<p>Nanomaterials and Energy storage devices</p>			
<p>Experience:</p>	<p>Industrial Experience</p> <p>-</p>	<p>Postdoctoral Experience</p> <p>1 Y 10 M</p>	<p>Teaching Experience</p> <p>6 years</p>	
<p>Number of workshops / FDP attended:</p>	<p>Number of Workshops</p> <p>3</p>		<p>Number of FDPs</p> <p>17</p>	
<p>Publications:</p>	<p>Conference</p>		<p>Journal</p>	
	<p>National</p> <p>2</p>	<p>International</p> <p>2</p>	<p>National</p> <p>0</p>	<p>International</p> <p>25</p>
<p>Books / Book Chapters</p>	<p>2</p>			
<p>Patents:</p>	<p>National</p> <p>2</p>		<p>International</p> <p>-</p>	
<p>Research Guidance</p>	<p>Completed</p> <p>-</p>		<p>Ongoing</p> <p>-</p>	
<p>Professional Body Membership</p>	<p>IEEE Life member of the “International Organization for Academic and Scientific Development (IOASD)”</p>			

Research	<p>Google Scholar ID: YdpvFAs4JfkC</p> <p>Researcher ID: AAA-9323-2022</p> <p>ORCID ID: 0000-0002-9732-7258</p> <p>Scopus ID: 57667695400</p> <p>Anna University Guideship: No</p>
Professional Certifications	<ol style="list-style-type: none"> 1. Completed “ISO21001 Lead Auditor training” on 08/10/2024 organized by The Knowledge Academy. 2. “Basic Course for Rover Scout Leader” Training from 26/07/24 to 01/08/24 at Sri Sairam Engineering College. 3. Internal Auditor Training Course on Educational Organizations Management Systems (Based on ISO 21001:2018 Standard) by Bureau Veritas Certifications. Dated: 05/12/2022. 4. Panchayat administration and rural development schemes conducted by State institute of Rural development and panchayatraj
Staff Achievements	<ol style="list-style-type: none"> 1. Received NPTEL STAR Awards: NPTEL Enthusiast and NPTEL Believer Awards 2. Acted as an NHQ invited staff member at the 19th National Jamboree at Lucknow from 23 to 29 November 2025.

Educational Qualifications:

Category	Name of the Degree	Specialization	Year of Passing	Name of the College	Name of the University	% of Marks / Grades obtained	Class obtained
UG	M.Sc (5 year Integrated)	Physics	2010	Bharathidasan University	Bharathidasan University	6.90	First
PG	M.Sc (5 year Integrated)	Physics	2012	Bharathidasan University	Bharathidasan University	6.90	First
Doctorate	Ph.D.	Physics	2017	Annamalai University	Annamalai University	Highly Commented	

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sairam Engineering College, Chennai	Associate Professor	01.09.2023	Till Date	2	6	0
Sri Sairam Engineering College, Chennai	Assistant Professor	15.11.2021	31.08.2022	1	9	16
Bharath Institute of Higher Education and Research	Assistant Professor	01.02.2020	31.10.2021	1	8	29
Central South University, China	Post-Doc	27.02.2018	30.12.2019	1	10	2
Total				7	10	16

Workshops/Seminars attended:

1. National Level Workshop on “An Overview of Patents & Procedure for Protection”, organized by the Department of Civil Engineering, in association with RIT-Institution's Innovation Council (RIT-IIC) of Ramco Institute of Technology, Rajapalayam on 20.01.2023.
2. National seminar on “Recent Advancements in Material Science” under DBT Star College Scheme organized by the Department of Physics, V.V.Vanniaperumal College for Women, Virudhunagar on 14.03.2022.
3. National Level workshop on Recent Trends and Opportunities in Physics (Online) on 10th and 17th April 2021, Organized by the Department of Physics, School of Advanced Sciences, VIT-AP University, Andhra Pradesh, India

FDP/STTP Attended:

1. 6 days FDP on "Advanced 3D printing techniques for healthcare, automotive and energy systems" organized by CIPET: SARP ARSTPS from 2nd to 7th February 2026.
2. FDP on “Next-Gen Tech Synergy: Nano Engineering and Quantum Computing for Global Impact (NGTS'25)” held from 18/08/2025 to 23/08/2025, Organized by Department of Science and Humanities (Physics), Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College, Avadi, Chennai, Tamil Nadu.
3. 7 days FDP on “Empowering Educators - 21 Century Teaching Practices” organized by Department of Physics & IQAC, Erode Arts and Science College (Autonomous), Erode, from 06 August 2025 to 13 August 2025.
4. FDP on “United Nations Sustainable Development Goals (UN SDGS)” Organized by NPTEL from Jan - April 2025.
5. FDP on “Waste to Energy Conversion” Organized by NPTEL from Jan - April 2025.
6. “International Seminar on Advanced Functional Materials and Applications” on 4th April 2025 organized

by the Department of Physics, SRM Institute of Science and Technology, Ramapuram, Chennai.

7. "A Ten Days Virtual International Faculty Development Program on Frontiers in Material Science" organized by the Department of Physics, SRM Institute of Science and Technology, Ramapuram, Chennai on 17th to 27th March 2025.
8. Two-week online Faculty Development Program (FDP) on "Frontiers in Materials Research, Innovations, and Entrepreneurship" (FMRIE'24) organized by the Department of Physics, Sri Sairam Engineering College from 25/07/24 to 08/08/24.
9. "National Workshop on Hands on Training Programme on Useful Tools to Efficiently Create Research Summary" on 22th July 2024, organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram, Chennai.
10. 5 Days FDP on "Personal and Professional Management" organized by Arka JAin University-Jharkhand and Research Foundation of India during 11-15 June 2024.
11. Virtual Faculty Development Program on "Recent Advances in Chemical Sciences" organized by Department of Chemistry, K.S.R College of Arts and Science for Women, Tiruchengode, Tamilnadu, India during 27.11.2023 to 01.12.2023.
12. International Faculty Development Programme on "Recent Trends in Applied Physics" organized by Department of Physics, Easwari Engineering College (SRM), Chennai from 25th to 30th July 2022.
13. International Faculty Development Programme on "Facets of Teaching" jointly organized by Tamilnadu Teachers Education University and Lakshmi College of Education, Dindugul from 14th June 2021 to 20th June 2021.
14. National level Faculty Development Programme on Advanced Science and Technology organized by Department of Physics, SRM Institute of Science and Technology, Ramapuram Campus, Chennai on 5th May 2021.
15. Online FDP on Material Science organized by Thanthai Hans Rover College, Perambalur. during 27-05-20 & 28-07-20.
16. FDP on Pedagogy of Physical Science organized by Trinity College for Women, Namakkal.
17. FDP on Nanomaterials for Energy Harvesting and Biomedical Applications organized by GIET, Andhra Pradesh.

Papers presented in International / National Conferences:

1. Presented a paper entitled "Synthesis and Characterization of MXene Anchored ZnO/g-C₃N₄ Heterostructures for Photocatalytic Degradation of Organic Pollutants." ICANEA-2024, KLEF, Andhra Pradesh, India (Dec 2024).
2. Presented a paper entitled "Structural, optical, and antibacterial properties of hydrothermally synthesized cadmium nanoparticles" in a national conference (GAIN-16) organized by E.R.K. Arts & Science College,

Dharmapuri, India.

3. Presented a paper entitled "Synthesis and characterization of hydrothermally synthesized zinc stannate nanoparticles" at the national level conference on "Recent trends in nanomaterials" held at AVS College of Arts & Science, Salem, India.
4. Presented a paper entitled "Structural, morphological and photocatalytic properties of hydrothermally synthesized Cd₂SnO₄/activated carbon nanocomposites" at a National-level conference on New Trends in Chemistry held at Annamalai University, Chidambaram, India.

Conference/ Symposium Attended:

1. National Symposium on "Fundamentals and Advancements in Chemistry" on March 19-20,2021 organized by Department of Chemistry, Chevalier T Thomas Elizabeth College for Women, Chennai.
2. 2nd International forum on Advanced Materials and Technologies 2018 held in Changsha, China.
3. International conference on "Recent Trends in Material Science and Applications" organized by the PG and research department of physics, Jamal Mohamed College, Tiruchirappalli, India.
4. National conference on "Advances in material science" held at M.V.Muthiah government Arts College for women, Dindigul, India.
5. National conference on "Frontier areas in applied physics" organized by Engineering Physics, Annamalai University, Chidambaram, India.

Program Organized:

1. SERB Sponsored "Global Conference on Applied Materials" Organized on 12, 13 September 2024 at Sri Sai Ram Engineering College.

Resource Person:

1. Gave an invited talk at "Workshop on Next Generation Batteries" organized by Department of Physics, Bharath Institute of Higher Education and Research, Chennai on 24/02/24.
2. Gave an invited talk at "International conference on Advanced Material Processing and Technology (ICAMPAT-2020) organized by Department of Physics, Arignar Anna Government Arts College, Villupuram on 07/03/2020.
3. Gave an invited talk at "International conference on Novel Materials for Evolving Technological Applications" organized by Department of Physics, Holly Cross College, Nagercoil on 02/03/2020.

Patents:

1. "Nano Engineered Polymeric Biomaterials for Targeted Drug Delivery System for Synergistic Brain-Targeting Delivery Method There Of". Application No: 202241051202. Status: Published. Dated: 16/09/2022.
2. "A Process for Treating Contaminated Water using Magnetic Nanoparticle-based Adsorbents for Targeted Adsorption of Toxic metals". Application No: 202321051206. Status: Published: Dated: 29/07/2023.

Journal Publications:

1. J Vijaya Raja Sekaran, K Vijayakumar, S Dinesh, C Vignesh, G Anburaj, M Surendra Varma, M Jerome Rozario, L Guganathan, C Rajeevgandhi, K Vinoth. Effects of iron incorporation on the properties of tin sulfide thin films: a multi-technique investigation. *Journal of Crystal Growth*, 2026, 128513. I.F: 2.0
2. J Hemalatha, C Rajeevgandhi, S Bharanidharan, M Vimala, S Dinesh, L Guganathan, K Vanitha, SP Meena. Experimental and Computational Analysis of (3E)-3-(2, 4-dimethoxybenzylidene)-2, 3-dihydro-4H-chromen-4-one Using Spectral, DFT, Topology, ADME, and Molecular Dynamics. *ChemistrySelect*, 2026, e05353. I.F: 2.0
3. Kuppusamy, S., Selvakumaran, D., Rajaraman, P., Lakshmanan, K., & Ahmad, M. K. B. (2024). Development of surface-activated La_{0.6}Ca_{0.4}MnO₃ perovskite-type electrodes using oxygen plasma for highly stable supercapacitor application. *Ceramics International*, 50(24), 52695-52706. I.F: 5.1
4. Kuppusamy, S., Selvakumaran, D., Lakshmanan, K., & Ahmad, M. K. B. (2024). Development of Graphitic Carbon Nitride-Encapsulated SrFe₂O₄ Spinel Nanocomposite Electrode for Enhancing Supercapacitor and Oxygen Evolution Applications. *Energy & Fuels*, 38(8), 7344-7358. I.F: 5.2
5. Anandan, Manickam, Selvakumaran Dinesh, Benedict Christopher, Narendran Krishnakumar, Balamurugan Krishnamurthy, and Manikandan Ayyar. "Multifaceted investigations of co-precipitated Ni-doped ZnO nanoparticles: Systematic study on structural integrity, optical interplay and photocatalytic performances." *Physica B: Condensed Matter* 674 (2024): 415597. I.F: 2.8
6. Saranya, S., S. Dhanapandian, S. Suthakaran, Sankaranarayanan Nagarajan, N. Krishnakumar, S. Dinesh, A. Muthukrishnaraj, and Ayyar Manikandan. "Nickel-Manganese bimetallic Selenide as an electrode for supercapacitor applications." *Sustainable Energy Technologies and Assessments* 59 (2023): 103376. I.F: 8.0
7. Manickam, Anandan, Dinesh Selvakumaran, Krishnakumar Narendran, Sirajunnisa Abdul Razack, Suthakaran Selvakumar, and Balamurugan Krishnamurthy. "Fabrication of gum acacia protected zinc oxide nanoparticles for UV assisted photocatalysis of methyl green textile dye." *Chemical Physics Letters* 800 (2022): 139662. I.F: 2.719
8. Chinnaiah, K., K. Gurushankar, KARTHIK KANNAN, ASADOLLAH ASADI, S. Dinesh, and C. Thangamani. "Magnetic Nanoparticles for Immobilization of Enzyme and their Applications-A Review." *International Journal of Pharmaceutical Research* (09752366) (2020).
9. Dinesh Selvakumaran, Anqiang Pan, Shuquan Liang, Guozhong Cao, "A review on recent developments and challenges of cathode materials for rechargeable aqueous Zn ion batteries." *Journal of Materials Chemistry A*, 7, 31 (2019): 18209-18236. I.F: 14.511
10. Nie, Xiong, Xiangzhong Kong, Dinesh Selvakumaran, Linzhen Lou, Junrong Shi, Ting Zhu, Shuquan Liang, Guozhong Cao, and Anqiang Pan. "3D Carbon Coated Tree-Like Ni₃S₂ Superstructures on Nickel Foam as Binder-Free Bifunctional Electrodes." *ACS applied materials & interfaces*, (2018), 10(42), 36018-36027.

I.F: 10.38

11. Kong, Xiangzhong, Anqiang Pan, Yaping Wang, Dinesh Selvakumaran, Jiande Lin, Xinxin Cao, Shuquan Liang, and Guozhong Cao. "In situ formation of porous graphitic carbon wrapped MnO/Ni microspheres network as binder-free anodes for high performance lithium-ion batteries." *Journal of Materials Chemistry A*, (2018), 6(26), 12316-12322. I.F: 14.511
12. Yin, Bo, Xinxin Cao, Anqiang Pan, Zhigao Luo, Selvakumaran Dinesh, Jiande Lin, Yan Tang, Shuquan Liang, and Guozhong Cao. "Encapsulation of CoS_x Nanocrystals into N/S Co-Doped Honeycomb-Like 3D Porous Carbon for High-Performance Lithium Storage." *Advanced Science* 5(9), (2018): 1800829. I.F: 17.52
13. Lin, Jiande, Yuan Yuan, Qiong Su, Anqiang Pan, Selvakumaran Dinesh, Cheng Peng, Guozhong Cao, and Shuquan Liang. "Facile synthesis of Nb₂O₅/carbon nanocomposites as advanced anode materials for lithium-ion batteries." *Electrochimica Acta* 292 (2018):63-71. I.F: 7.336
14. Dinesh, S., Anandan, M., Premkumar, V. K., Barathan, S., Sivakumar, G., & Anandhan, N. (2016) Photocatalytic and electrochemical performance of hydrothermally synthesized cubic Cd₂SnO₄ nanoparticles. *Materials Science and Engineering: B*, 214, 37-45. I.F: 3.407
15. Dinesh, S., Barathan, S., Premkumar, V. K., Sivakumar, G., & Anandan, N. (2016). Hydrothermal synthesis of zinc stannate (Zn₂SnO₄) nanoparticles and its application towards photocatalytic and antibacterial activity. *Journal of Materials Science: Materials in Electronics*, 27(9), 9668-9675. I.F: 2.779
16. Dinesh, S., Thirugnanam, N., Anandan, M., Barathan, S., & Anandhan, N. (2016). Effect of activated carbon on electrochemical and photocatalytic performance of hydrothermally synthesized zinc stannate nanoparticles. *Journal of Materials Science: Materials in Electronics*, 27(12), 12786-12795. I.F: 2.779
17. Anandan, M., Dinesh, S., Krishnakumar, N., & Balamurugan, K. (2016). Improved photocatalytic properties and anti-bacterial activity of size reduced ZnO nanoparticles via PEG-assisted precipitation route. *Journal of Materials Science: Materials in Electronics*, 27(12), 12517-12526. I.F: 2.779
18. Anandan, M., Dinesh, S., Krishnakumar, N., & Balamurugan, K. (2016). Influence of Co doping on combined photocatalytic and antibacterial activity of ZnO nanoparticles. *Materials Research Express*, 3(11), 115009. I.F: 2.025
19. Anandan, M., Dinesh, S., Krishnakumar, N., & Balamurugan, K. (2016). Tuning the crystalline size of template free hexagonal ZnO nanoparticles via precipitation synthesis towards enhanced photocatalytic performance. *Journal of Materials Science: Materials in Electronics*, 28(3), 2574-2585. I.F: 2.779
20. Premkumar, V. K., Sivakumar, G., Dinesh, S., & Barathan, S. (2016). Facile hydrothermal synthesis of cobalt stannate (Co₂SnO₄) nanoparticles for electrochemical properties. *Journal of Materials Science: Materials in Electronics*, 28(6), 4780-4787. I.F: 2.779
21. N. Thirugnanam, D. Govindarjan, S. Dinesh, R. Gopalakrishnan, C.K. Nithya (2017), Synthesis, structural, optical and morphological properties of CdSe:Zn/CdS core shell nanoparticles, *Journal of Sol-Gel Science*

and Technology. 82(1), 109-118. I.F: 2.606

22. Gopalakrishnan, R., B. Loganathan, S. Dinesh, and K. Raghu. (2017) "Strategic Green Synthesis, Characterization and Catalytic Application to 4-Nitrophenol Reduction of Palladium Nanoparticles." Journal of Cluster Science. 28(4): 2123-2131. IF: 3.447
23. V K Premkumar, S Dinesh, G Sivakumar, K Mohanraj. (2017), Facile hydrothermally synthesized mesoporous manganous stannate (Mn_2SnO_4) nanoparticles and its electrochemical properties. Materials Research Express 4 (12), 125010. I.F: 2.025
24. Selvakumaran, D., Manickam, A., Ravi, G., Muthusamy, G., & Seshatri, B. (2019). Improved Photocatalytic and Electrochemical Performance of Hydrothermally Synthesized Mg_2SnO_4 Nanocubes and their Effect on Loading with Activated Carbon. Advanced Materials Proceedings, 4(3), 109-111

Books / Book Chapters:

1. "A Text Book of Physics for Computing Science" by M. Vadivelu, S. Dinesh, C. Meganathan, R. Premanand. ISBN No: 9789334151527.
2. "Principles of Electronics Engineering" by M. Vadivelu, S. Dinesh, C. Meganathan, R. Premanand. ISBN Number : 9789357378925.

Awards:

1. Received NPTEL STAR Awards NPTEL Enthusiast and NPTEL Believer Awards on 01/02/2026.

Online Courses:

1. Completed NPTEL course entitled "Technical Communication for Engineers" with Elite-Silver during Jul - Oct 2025.
2. Completed NPTEL course entitled "Physics of Renewable Energy Systems" course with Elite-Silver during Jul - Oct 2025.
3. Completed NPTEL course entitled "Nanotechnology in Chemical Engineering" course with Elite-Silver during Jul - Oct 2025.
4. Completed NPTEL course entitled "Basic Environmental Engineering and Pollution Abatement" course with Elite during Jul - Oct 2025.
5. Completed NPTEL course entitled "United Nations Sustainable Development Goals(UN SDGS)" course with Elite during Jan - April 2025.
6. Completed NPTEL course entitled "Waste to Energy Conversion" course with Elite during Jan - April 2025.
7. Completed NPTEL course entitled "Theory and Practice of Non Destructive Testing" course with Elite during Jan - Mar 2024.
8. Completed NPTEL course entitled "Techniques of Material Characterization" course with Elite during Jan - Mar 2024.
9. Completed the course entitled "Social Emotional Education: Knowledge to Practice (SEEK)" on 01/11/2025.

Webinar:

1. Webinar on “Research Initiatives & IPR Practices” organized by Idhaya Engineering College for Women, Chinnasalem on 4th June 2021.
2. National webinar on “Microstructural Characterization of Pozzolanic Materials (MCPM - 21)” on 28th MAY 2021, organized by Department of Physics, St. Joseph University, Dimapur, Nagaland, India.
3. National webinar on “Career Advancement Programme for Faculty members” jointly organized by “Research forum and Swayam NPTEL” and D. G. Government’s arts college for Women, Mayiladuthurai on Feb 21, 2021.
4. Webinar on “DFT, Docking and Biological Evaluations of Some Heterocyclic Molecules” held on 15th Feb, 2021 organized by Department of Chemistry, Vivekanandha Arts and Science College, Salem.
5. National webinar on “Spectroscopy with Crystal Growth and their Applications” on 12th Feb, 2021 organized by Department of Chemistry, Vivekanandha College of Arts and Science for Women, Tiruchengode.
6. International Virtual Seminar on "Physics and Chemistry of Materials" on 6th, February 2021 organized by Department of Physics, Karpagam Academy of Higher Education, Coimbatore.
7. Webinar on “Nanomaterials for Energy & Environmental Applications” organized by the Department of Physics, Ramco Institute of Technology, Rajapalayam on 29-01-2021.
8. Webinar on “Materials and Commercial Aspects of Solar Photovoltaic Systems” organized by the Department of Physics, School of Basic Sciences, Vels Institute of Science, Technology & Advanced Studies (VISTAS), Pallavaram, Chennai-117 on 27 January 2021.
9. Webinar Nanomaterials and its application organized by Mofamed Sathak A J College of Engineering on 30th December 2020.
10. Webinar on Solar to hydrogen fuel generation organized by St. Joseph's college of Engineering, Chennai on 14th Aug. 2020.
11. Webinar on Advanced electronic materials and devices for select aerospace and aero defense applications organized by Saveetha engineering college, Chennai on 1st Aug. 2020.
12. International webinar Nanostructured metal oxide thin films for sensor technology organized by Saveetha engineering college, Chennai on 16th July 2020.
13. International webinar Graphene oxide: A 2D personality of carbon atom and its applications organized by Don Bosco college, Dharmapuri on 8th June 2020.
14. Webinar on advanced materials organized by Vels institute of science and technology, Chennai on 28- 30 may 2020.
15. Webinar on History of nuclear physics organized by V.O.C college, Thoothukudi on 25th May 2020.
16. Webinar on the purview of thermoelectric for the future sustainable energy source organized by

Sathiyabama institute of science and technology, Chennai on 16th May 2020.