

Name:  <b>Dr. S. DINESH</b>				
<b>Designation:</b>	<b>Associate Professor</b>			
<b>Qualification:</b>	<i>M.Sc., Ph.D., PDF (China)</i>			
<b>Area of specialization:</b>	<i>Nanomaterials and Energy storage devices</i>			
<b>Experience:</b>	<b>Industrial Experience</b>		<b>Teaching Experience</b>	
	<b>2 years Post Doc</b>		<b>5</b>	
<b>Number of workshops / FDP attended:</b>	<b>Number of Workshops</b>		<b>Number of FDPs</b>	
	<b>10</b>		<b>8</b>	
<b>Publications:</b>	<b>Conference</b>		<b>Journal</b>	
	<b>National</b>	<b>International</b>	<b>National</b>	<b>International</b>
	<b>0</b>	<b>1</b>	<b>0</b>	<b>20</b>
<b>Books / Book Chapters</b>	<b>Nil</b>			
<b>Patents:</b>	<b>National</b>		<b>International</b>	
	<b>2</b>		<b>0</b>	
<b>Professional Body Membership</b>	<ol style="list-style-type: none"> <li>1. The Institute of Electrical and Electronics Engineers (IEEE. No. 98744168)</li> <li>2. Member of IEEE Nuclear Plasma science society</li> <li>3. Member of IEEE Photonics Society</li> <li>4. Member of IEEE electronics packaging society</li> <li>5. Member of IEEE electron device society</li> <li>6. Member of IEEE Antenna society</li> <li>7. Member of IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society</li> <li>8. Member IEEE Geoscience</li> <li>9. Member IEEE circuits and systems</li> </ol>			
<b>Staff Achievements</b>	<ol style="list-style-type: none"> <li>1. Invited talk both national and international conference</li> </ol>			

## Educational Qualification:

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	I
PG	M.Sc (5 year Integrated)	Physics	2012	Bharathidasan University	Bharathidasan University	6.90	I
Doctorate	Ph.D.,	Physics	2017	Annamalai University	Annamalai University	Highly commented	

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Sri Sai Ram Engineering College	Associate Professor	01.09.2023	Till Date	1	2	
Sri Sai Ram Engineering College	Assistant Professor	15.11.2021	31.08.2022	1	9	
Bharath Institute of Higher Education and Research	Assistant Professor	06.09.2017	05.06.2021	1	8	
<b>Total</b>				<b>4</b>	<b>9</b>	

## Publications:

1. Kuppusamy, S., Selvakumaran, D., Rajaraman, P., Lakshmanan, K., & Ahmad, M. K. B. (2024). Development of surface-activated La<sub>0.6</sub>Ca<sub>0.4</sub>MnO<sub>3</sub> perovskite-type electrodes using oxygen plasma for highly stable supercapacitor application. *Ceramics International*, 50(24), 52695-52706. I.F: 5.1

2. Kuppusamy, S., Selvakumaran, D., Lakshmanan, K., & Ahmad, M. K. B. (2024). Development of Graphitic Carbon Nitride-Encapsulated SrFe<sub>2</sub>O<sub>4</sub> Spinel Nanocomposite Electrode for Enhancing Supercapacitor and Oxygen Evolution Applications. *Energy & Fuels*, 38(8), 7344-7358. I.F: 5.2

3. 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

4. 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

5. 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

6. 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).

7. 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

8. Nie, Xiong, Xiangzhong Kong, Dinesh Selvakumaran, Linzhen Lou, Junrong Shi, Ting Zhu, Shuquan Liang, Guozhong Cao, and Anqiang Pan. "3D Carbon Coated Tree-Like Ni<sub>3</sub>S<sub>2</sub> Superstructures on Nickel Foam as Binder-Free Bifunctional Electrodes." *ACS applied materials & interfaces*, (2018), 10(42), 36018-36027. I.F: 10.38

9. 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

10. Yin, Bo, Xinxin Cao, Anqiang Pan, Zhigao Luo, Selvakumaran Dinesh, Jiande Lin, Yan Tang, Shuquan Liang, and Guozhong Cao. "Encapsulation of CoS<sub>x</sub> 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

11. Lin, Jiande, Yuan Yuan, Qiong Su, Anqiang Pan, Selvakumaran Dinesh, Cheng Peng, Guozhong Cao, and Shuquan Liang. "Facile synthesis of Nb<sub>2</sub>O<sub>5</sub>/carbon nanocomposites as advanced anode materials for lithium-ion batteries." *Electrochimica Acta* 292 (2018):63-71. I.F: 7.336

12. Dinesh, S., Anandan, M., Premkumar, V. K., Barathan, S., Sivakumar, G., & Anandhan, N. (2016) Photocatalytic and electrochemical performance of hydrothermally synthesized cubic Cd<sub>2</sub>SnO<sub>4</sub> nanoparticles. *Materials Science and Engineering: B*, 214, 37-45. I.F: 3.407

13. Dinesh, S., Barathan, S., Premkumar, V. K., Sivakumar, G., & Anandan, N. (2016). Hydrothermal synthesis of zinc stannate (Zn<sub>2</sub>SnO<sub>4</sub>) nanoparticles and its application towards photocatalytic and antibacterial activity. *Journal of Materials Science: Materials in Electronics*, 27(9), 9668-9675. I.F: 2.779

14. 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

15. 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

16. 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

17. 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

18. Premkumar, V. K., Sivakumar, G., Dinesh, S., & Barathan, S. (2016). Facile hydrothermal synthesis of cobalt stannate (Co<sub>2</sub>SnO<sub>4</sub>) nanoparticles for electrochemical properties. *Journal of Materials Science: Materials in Electronics*, 28(6), 4780-4787. I.F: 2.779

19. 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

20. 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

21. V K Premkumar, S Dinesh, G Sivakumar, K Mohanraj. (2017), Facile hydrothermally synthesized mesoporous manganous stannate (Mn<sub>2</sub>SnO<sub>4</sub>) nanoparticles and its electrochemical properties. *Materials Research Express* 4 (12), 125010. I.F: 2.025

22. Selvakumaran, D., Manickam, A., Ravi, G., Muthusamy, G., & Seshatri, B. (2019). Improved Photocatalytic and Electrochemical Performance of Hydrothermally Synthesized Mg<sub>2</sub>SnO<sub>4</sub> Nanocubes and their Effect on Loading with Activated Carbon. *Advanced Materials Proceedings*, 4(3), 109-111.