Sri Sairam Engineering College

Department Of Humanities And Sciences

Name : **Dr. S. DINESH**	
Designation :	*Associate Professor*
Qualification :	*M.Sc., Ph.D., PDF (China)*
Area of Specialisation :	*Nanomaterials and Energy storage devices*
Experience :	*Teaching : UG : 3 years 11 months* *PG :*
	Industry :
No. of Workshop / Conferences / FDP attended	*14*
Publication :	*Journal* *National : nil* *International : 18*
	Conference *National : 1*

	International : nil
Research Guidance :	*Nil*
General :	*Postdoctoral Fellowship completed at Central South University, China during the period from 27-02-2018 to 30-12-2019 (1 year 10 months)*
Staff Achievements	● *Organized two international webinars* ● *Awarded Postdoctoral Fellowship at Central South University, China*

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*	*First Class*
PG	*M.Sc (5 year Integrated)*	*Physics*	*2012*	*Bharathidasan University*	*Bharathidasan University*	*6.90*	*First Class*
Research	*Ph.D*	*Physics*	*2017*	*Annamalai University*	*Annamalai University*	*NA*	*NA*

Academic Experience:

Name of the College	Designation	Joining Date	Relieving Date	Experience		
				Years	Months	Days
Bharath Institute of Higher Education and Research	*Assistant Professor*	*03.02.2020*	*30.10.2021*	*1*	*8*	*29*
Sri Sairam Engineering College	*Assistant Professor*	*15.11.2021*	*31.08.2023*	*1*	*9*	*16*
Sri Sairam Engineering	*Associate*	*1.09.2023*	*Till date*	*0*	*4*	*17*

College	*Professor*					
			Total	**3**	**11**	**02**

PUBLICATIONS

1. *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**

2. *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

3. *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**

4. *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).*

5. **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**

6. *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**

7. *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**

8. *Yin, Bo, Xinxin Cao, Anqiang Pan, Zhigao Luo,* **Selvakumaran Dinesh**, *Jiande Lin, Yan Tang, Shuquan Liang, and Guozhong Cao. "Encapsulation of CoSx 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**

9. *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**

10. **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**

11. **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**

12. **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**

13. *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**

14. *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**

15. *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**

16. *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**

17. *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**

18. *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**

19. *V K Premkumar,* **S Dinesh**, *G Sivakumar, K Mohanraj. (2017), Facile hydrothermally synthesized mesoporous manganous stannate (Mn2SnO4) nanoparticles and its electrochemical properties. Materials Research Express 4 (12), 125010.* **I.F: 2.025**

WORKSHOP:

- *National Level workshop on Recent Trends and Opportunities in Physics on 10th and 17th April 2021, Organized by the Department of Physics, School of Advanced Sciences, VIT-AP University, Andhra Pradesh, India.*

SEMINARS/ CONFERENCES:

- *International Virtual Conference on "Recent Trends in Clean Technologies for Sustainable Environment" on September 15 & 16 organized by CEWAR, SSN College of Engineering, Chennai.*
- *International Virtual Seminar on "Physics and Chemistry of Materials" on 6th, February 2021 organized by Department of Physics, Karpagam Academy of Higher Education, Coimbatore.*
- *International conference on "Recent Trends in Material Science and Applications" organized by the PG and research department of physics, Jamal Mohamed College, Tiruchirappalli, India.*
- *National conference on "Advances in material science" held at M.V.Muthiah government Arts College for women, Dindigul, India.*
- *National conference on "Frontier areas in applied physics" organized by Engineering Physics, Annamalai University, Chidambaram, India.*

FDP:

- *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.*
- *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.*

- *Online FDP on Material Science organized by Thanthai Hans Rover College, Perambalur.*
- *FDP on Pedagogy of Physical Science organized by Trinity College for Women, Namakkal.*
- *FDP on Nanomaterials for Energy Harvesting and Biomedical Applications organized by GIET, Andhra Pradesh.*

PATENTS

- Nano Engineered polymeric biomaterials for targeted drug delivery system for synergistic brain targeting delivery method thereof. (Indian Patent, Application No: 202241051202)