BIO DATA

Name : Dr. R. Srinivasan

Designation : Assistant professor

Department : Physics

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1. Educational Qualification :

Degree	Branch / Specialization	Institute/University	Year of Passing
B.Sc	Physics	ANJA College/ Madurai kamaraj University	1994
M.Sc	Physics	ANJA College/ Madurai kamaraj	1997
Ph.D	Physics	National Institute of Technology, Tiruchirappalli	2011

2. Professional/ Industry Experience : (in chronological order)

S.No	Designation	Institution/Organization	Period	
			From	To
1	Assistant Professor	Ramco Institute of Technology, Rajapalayam	28.09.2020	Till date
2	Associate Prossor	P.S.R. Engineering college Sivakasi	03.12.2012	20.07.2019
3	Assistant Professor	Kalasalingam University , Krishnan koil	29.0720.11	05.11.2012
4	Lecturer	Sri SRNM college, Sattur	02.07 2004	05.01.2007

3. Research Interest

Oxide Nanoparticles, Nanofluids, Luminescence nanoparticles

Updated as on 31.08.21

4 Publications

4.1JOURNAL PUBLICATIONS

1. **R. Srinivasan**, N. Rajeswari Yogamalar, A. Vinu, K. Ariga and A. Chandra Bose**,** Structural and Optical Characterization of Samarium Doped Yttrium Oxide Nanoparticles**, Journal of Nanoscience and Nanotechnology** 9, (2009) 6747-6752. **(I.F -0.872), DOI:** https://doi.org/10.1166/jnn.2009.1467

2. **R.Srinivasan**, N. Rajeswari Yogamalar and A. Chandra Bose**,** Synthesis and Structural Studies on Nanocrystalline Yttrium Oxide, ***Advanced Science Letters*** *2* (2009) *65- 69.* **(I.F -1.253)** ***DOI:*** https://doi.org/10.1166/asl.2009.001

3 **R.Srinivasan**, N. Rajeswari Yogamalar, R. Justin Josephus and A Chandra Bose**,** Estimation of Lattice strain, Stress, Energy Density and Crystallite Size of the Spherical Yttrium oxide Nanoparticles ***Functional Materials Letters*** *2,* (2009) 131-134. **(I.F -2.000) DOI** https://doi.org/10.1142/S1793604709000673

4 **R. Srinivasan**, N. Rajeswari Yogamalar, J. Elanchezhiyan, R. Justin Joseyphus and A. Chandra Bose**,** . Structural and optical properties of europium doped yttrium oxide nanoparticles for Phosphor applications, ***Journal of Alloys and Compounds*** *496 (*2010) 472 – 477. **(I.F -4.175) DOI** https://doi.org/10.1016/j.jallcom.2010.02.083

5. **R. Srinivasan**, N. Rajeswari Yogamalar, and A. Chandra Bose**,** Structural and Optical Studies of Yttrium oxide Nanoparticles Synthesized by Co-Precipitation method, *Materials Research Bulletin*, 45, (2010) 1165-1170. **(I.F – 4.641) DOI** https://doi.org/10.1016/j.materresbull.2010.05.020

6. **R. Srinivasan**, M.Chandrasekar, S. Suresh and A. Chandra Bose, Factorial design to investigate various factors affecting the Grain size of SnO_2 nanoparticles" ***International Journal of Nanomaterials and Technology,*** *1*, (2010) 17-21.

7. **R. Srinivasan** and A. Chandra Bose, Structural properties of Sm^{3+} doped cerium Oxide nanorods synthesized by hydrolysis assisted co-precipitation method,***Materials Letters*** 64, (2010) 1954-1956. **(I.F -3.36)** https://doi.org/10.1016/j.matlet.2010.06.023

8. M.Chandrasekar, S. Suresh, **R. Srinivasan** and A. Chandra Bose**,** New Analytical models to investigate thermal conductivity of nanofluids ***Journal of Nanoscience and Nanotechnology,*** 9 (2009) 533–538 .**(I.F -0.872)** **DOI** https://doi.org/10.1166/jnn.2009.J025

9. N. Rajeswari Yogamalar, S. Anitha, **R. Srinivasan**, A. Vinu, K. Ariga and A.Chandra Bose, An investigation on co-precipitation derived ZnO nanospheres, ***Journal of Nanoscience and Nanotechnology*** 9, (2009) 5966-5972. **(I.F -0.872)** **DOI:** https://doi.org/10.1166/jnn.2009.1289

10. C. Esther Elizabeth, N. Rajeswari Yogamalar, **R. Srinivasan** and A. Chandra Bose**,** Influence of Iron dopant on Structure, Surface Morphology and Optical Properties of ZnO nanoparticles, ***Advanced Materials Research,*** *67* (2009) 245-250. **(I.F -0.872)** DOI: https://doi.org/10.4028/www.scientific.net/AMR.67.245

11. Multi - capping agents in size confinement of ZnO nanostructured particles, N. Rajeswari Yogamalar, **R. Srinivasan** and A. Chandra Bose, ***Optical Materials*** 31 (2009) 1570-1574. **(I.F -3.08) DOI:** https://doi.org/10.1016/j.optmat.2009.03.002

12. N. Rajeswari Yogamalar, R**. Srinivasan**, A. Vinu, K. Ariga and A. Chandra Bose, - Xray peak broadening analysis in ZnO nanoparticles, **Solid State Communications** 149 (2009) 1919-1923. **(I.F -1.804)** **https://doi.org/10.1016/j.ssc.2009.07.043**

13. B. Renganathan, G. Gobi, D. Sastikumar, **R. Srinivasan,** A. Chandra Bose, Nanocrystalline SnO_2 coating on a optical fiber for ammonia sensing,**Sensors Letters,** 8 (2010) 292-296.**(I.F -0.881) DOI: https://doi.org/10.1166/sl.2010.1266**

14. Rajeswari Yogamalar, .V. Mahendran, **R. Srinivasan**, Ali Beitollabi, R. Pradeep Kumar, A. Vinu, and A.Chandra Bose**,** Gas Sensing Properties of Needle Shaped Ni doped SnO_2 Nanocrystals Prepared by a simple Sol-gel Chemical Precipitation,***Chemistry An Asian Journal*, 5,** (2010) 2379-2385. **(I.F -4.568)** DOI: **https://doi.org/10.1002/asia.201000358**

15. **R. Srinivasan** and A. Chandra Bose, Structural and optical properties of Eu^{3+} doped cerium oxide nanophosphors, ***Functional Materials Letters***, 4, (2011) 13-16. **(I.F – 2.000) DOI https://doi.org/10.1142/S1793604711001518**

16. **R. Srinivasan** and A. Chandra Bose Structural characterization of ceria nanoparticles, ***AIP conference proceedings*,** 1349 (2011) 367-368. **(I.F -0.40)** DOI **https://doi.org/10.1063/1.3605887**

17. T. Selvalakshmi, S. Philomina, **R. Srinivasan** and A. Chandra Bose, Synthesis and characterization of Er^{3+} doped Y_2O_3 nanoparticles, **International Journal of Luminescence and its applications**, 2 (2012) 82-84.

18. B. Renganathan, D. Sastikumar, **R. Srinivasan**, A. Chandra Bose and A.R. Ganesan, Nanocrystalline aluminum oxide coating fiber optic vapour sensors, **Asian Journal of Chemistry** 25 (2013) S373-S377. **(I.F -0.335)**

19. **R. Srinivasan** and A. Chandra Bose, Effect of hydrolysis time on grain size and properties of cerium oxide nanoparticles synthesized by hydrolysis assisted co precipitation method, **Nanoscience and Nanotechnology Letters**, 6 (2014) 94-98 **(I.F 1.128) DOI: https://doi.org/10.1166/nnl.2014.1731**

20 B. Renganathan, D. Sastikumar, A. Chandra Bose, **R. Srinivasan**, A.R. Ganesan, Nanocrystalline cerium oxide coated fiber optic gas sensor, **Current Applied Physics** 14 (2014) 467-471. **(I.F -2.281) DOI: https://doi.org/10.1016/j.cap.2013.12.022**

21. B. Renganathan, D. Sastikumar, **R. Srinivasan**, A.R. Ganesan, Nanocrystalline samarium oxide coated fiber optic gas sensor, **Materials Science and Engineering B** 186 (2014) 122-127. **(I.F -4.051) DOI: https://doi.org/10.1016/j.mseb.2014.03.018**

22 M. Vigneswari, S. Sudharsan**, R. Srinivasan** S. Sankarrajan, Grain size effect on structural and optical Properties of lsmo nanoparticles, **Journal of Applied Physical Science International** 3(2) (2015) 52-58.

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4.2 CONFERENCE PUBLICATIONS

1. Synthesis and Structural Studies on Nanocrystalline Yttrium oxide, **R. Srinivasan,** N. Rajeswari Yogamalar and A. Chandra Bose, Proceedings of 52nd DAE solid State Physics Symposium, University of Mysore, December 27-31, 2007.

2. Samarium doped yttrium oxide nanoparticles for LED applications, **R. Srinivasan**, N. Rajeswari Yogamalar, A. Chandra Bose, International conference of Material Science Research and Nanotechnology, MTW University, Kodaikanal, Feburary 27-29, 2008.

3. Microwave synthesis and characterization of Nanoparticles, **R. Srinivasan**, N. Rajeswari Yogamalar, A. Chandra Bose in National Conference on Advanced Materials and Characterization, VIT, Vellore, July 23-25, 2008.

4. Synthesis of hexagonal type zinc oxide nanorods under hydrothermal condition, N. Rajeswari Yogamalar, **R. Srinivasan**, A. Chandra Bose in Functional Materials, IIT Madras, November 27-29, 2008.

5. Co-doped ZnO nanoparticles: Synthesis, Characterization, Structural and optical study, N. Rajeswari Yogamalar, C. Esther Elizabeth, **R. Srinivasan**, A. Chandra Bose in NADPA, IIT Roorkee, December 11-13, 2008.

6. Influence of iron dopant on structure, surface morphology and optical properties of ZnO nanostructures, C. Esther Elizabeth, N. Rajeswari Yogamalar, **R.Srinivasan**, A. Chandra Bose in NADPA, December 11-13, 2008, IIT Roorkee.

7. Nanocrystalline SnO_2 coating on a optical fiber for ammonia sensing, B. Renganathan, G. Gobi, D. Sastikumar, **R. Srinivasan,** A. Chandra Bose, International Conference on Fiber Optics and Photonics - Photonics 2008 IIT Delhi, December 13-17, 2008.

9. Structural and optical properties of samaria doped ceria nanoparticles for luminescence applications, **R. Srinivasan**, N. Rajeswari Yogamalar, A. Chithambararaj, and A. Chandra Bose, Proceedings of the 54th DAE Solid State Physics Symposium(2009), MS University, Vadodar, Decmber 14-18, 2009.

8. Structural Characterization of Cerium doped Yttria nanoparticles, **R. Srinivasan,** N. Rajeswari Yogamalar, A. Chithambararaj,and A. Chandra Bose**,** MatCon 2010, Cochin University, Cochin, January 11-13, 2010.

10. Structural and Absorption Study on Gadolinium Oxide Nanoparticles Prepared by Hydrothermal Method, T. Selvalakshmi, **R. Srinivasan** and A. Chandra Bose in TICAS 2012, Kalasalingam University, Krishnankoil, March 2-3, 2012.

11. Investigation of strain, Stress and crystallite size on the Cerium oxide nanoparticles using broadening of X-ray powder diffraction peak profile, **R. Srinivasan** and A. Chandra Bose in NCAM 2013, PSN College of Engineering and Technology Tirunelveli, January 23-25, 2013.

12. Investigation on Gadolinium oxide nanoparticles for luminescence applications, **R. Srinivasan,** B. Renganathan and A. Chandra Bose in NANO INDIA 2O15, Sastra University, Thanjavur, January 29&30,2015.

13 Review on Convective Heat transfer of Metal Oxide Nanofluids in Heat Exchanger, T. Suresh, G. Uthayakumar, **R. Srinivasan**, S. Durairaj, "Recent Advances in Materials and Manufacturing, (RAMM), SSN College of Engineering, Chennai, December 19, 2015.

14**.** Structural and optical properties of Gadolinium oxide nanoparticles, R. Srinivasan, G. Kanthimathi, International conference on Nanoscience and nanotechnology, SRM University, Chennai, Feb 1-3, 2021.

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4.3 Book/Book chapter publications: NIL

5 Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
1.	Synthesis and characterization of rare earths doped lanthanum and gadolinium oxide nanoparticles for luminescence applications	**DST**	**2013-2016**	**17.04 Lakhs**	**Completed**

6 Ph.D. guidance : NIL

Sl.No	Scholar name	University	Topic	Status

7Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl.No	Title of the event	Organized by	Date	
			From	To
1	Winter school on Solar and Solar terrestrial Physics	Indian Institute of Astrophysics, Kodaikanal	27-01-1998	31-01-1998
2	One day Workshop on Patent Awareness	Mepco Schlenk E ngineering College, Sivakasi.	28-11-2003	28-11-2003
3.	Intercollegiate Seminar in Physics	Sri S. R. N. M College, Sattur.	04-03-2005	04-03-2005
4.	Workshop on Materials Science for Engineers	National Institute of Technology, Tiruchirappalli.	04-11-2007	04-11-2007
5.	Short term course on Coating Technologies and Surface Engineering	Department of Metallurgical and Materials Engineering National Institute of Technology, Tiruchirappalli.	17-11-2007	20-11-2007
6.	Workshop on Coating Technologies and their applications	Department of Physics, National Institute of Technology	24-01-2008	24-01-2008
7.	One day Workshop on Simulating Complex Predictive System and Bayesian in Image processing-Applications	Department of Mathematics, National Institute of Technology, Tiruchirappalli	28-01-2008	28-01-2008
8.	Workshop on Frontier Topics in Physics	Bishop Heber College, Tiruchirappalli	04-02-2008	05-02-2008
9.	Workshop on Nanostructures and Devices	Department of Physics, National Institute of Technology, Tiruchirappalli	23-02-2008	23-02-2008

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10	One day work shop on Structure and Properties of Advanced Engineering Materials	Department of Metallurgical and Materials Engineering, National Institute of Technology, Tiruchirappalli	24-02-2008	24-02-2008
11	Two days workshop on nanomaterials Science and Technology and applications	Department of Metallurgical and Materials Engineering, National Institute of Technology, Tiruchirappalli,	05-03-2008	05-03-2008
12	Workshop on X-ray Diffraction Analysis (XRD) & Intellectual Property Rights (IPR)	Department of Physics, National Institute of Technology, Tiruchirappalli.	15-03-2008	15-03-2008
13	Short term course on Ultrasonics and Sonochemistry as an emerging Technology	Department of Chemistry, National Institute of Technology, Tiruchirappalli,	25-03-2008	27-03-2008
14	Workshop on Advanced Materials for Optoelectronic Devices	Department of Chemistry, National Institute of Technology, Tiruchirappalli,	11-04-2008	11-04-2008
15	Summer school on Advances in materials processing	Department of Production engineering, National Institute of Technology, Tiruchirappalli	30-06-2008	12-07-2008
16	Short term course on Electron Microscopy	Department of Metallurgical and Materials Engineering, National Institute of Technology, Tiruchirappalli	06-09-2008	08-09-2008
17	National Workshop on Power Electronics	Department of Electrical and Electronics Engineering, National Institute of Technology, Tiruchirappalli	12-11-2008	14-11-2008
18	National seminar on Sensor and its Applications	Department of Chemistry, National Institute of Technology, Tiruchirappalli	07-12-2008	08-12-2008
19	National Seminar and Exhibition on Non-Destructive evaluation	BHEL and NIT, Tiruchirappali,	10-12-2009	12-12-2009
20	One day workshop on animation	Kalasalingam University, Krishnanakoil	16-03-2012	16-03-2012
21	Italian Workshop on Molecular Nanophotonics	Anna University, Chennai	24-07-2013	27-07-2013
22	ATAL FDP on Photonics.	Thakur College of Engineering & Technology.	23.11.2020	27.11.2020
23	ATAl FDP on Universal Human values	National Institute of Technology patna	9.11.2020	13.11.2020
24	ATAL Online FDP on Novel Materials	Department of Physics, Tripura University	24-08-2021	28-08-2021

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8. Short term Courses / Seminars /FDP/Workshop/Conference organized: NIL

Sl.No	Titleof the event	Organized by	Date	
			From	To

9. Online Courses

sno	Course title	University	Date
1	Introduction to molecular Spectroscopy	Monsters University, USA	26-10-2020
2	Science of Exercise	University of Colorado	05-06-2021

10. Patents awarded : Number 1569/CHE/2011
Clad-Modified Fiber Optic Ammonia Gas Sensor With Nanocrystalline Titanium Dioxide And Ce Doped Zinc Oxide

11. Membership in Professional societies: NIL

12. Awards, Recognition& Achievements

Academic Awards

- **GOLD MEDAL awarded for best Ph.D. thesis in Science Stream for the year 2011 by National Institute of Technology (NIT), Tiruchirappalli.**
- **GOLD MEDAL awarded in M.Sc Physics for first rank in the class for the for the year 1999.**
- **DST- SERB (Young Scientist Award**

Lectureship Eligibility Test (PHYSICS)
SET – 2006 : Qualified
Research Eligibility Tests (PHYSICS)
GATE - 2006 : 90.96 Percentile
JEST - 2006 : 90.08 Percentile
GATE - 2003 : 82.99 Percentile
JEST - 2003 : 92.20 Percentile

Any others (Board of studies/Governing Council/Staff Selection/Reviewer/other duties);
Reviewer : Materials Letters and Materials Research Bulletin

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