




## PROFILE

<b>Name:</b>	<b>Dr. S. VALANARASU</b>		
<b>Department</b>	Physics		
<b>Designation</b>	Assistant Professor		
<b>Email</b>	valanroyal@gmail.com		
<b>Teaching Experience</b>	UG:14	PG:8	

### Recognised Educational Qualifications

S.No.	QUALIFICATION	INSTITUTION	BOARD/ UNIVERSITY	YEAR OF PASSING
1	B.Sc.,	Department of Physics, St. Joseph's College, Trichy, Tamilnadu, India.	Bharathidasan University	2002
2	M.Sc.,	Department of Physics, St. Joseph's College, Trichy, Tamilnadu, India.	Bharathidasan University	2004
3	M.Phil.,	Department of Physics, Bharathidasan University, Trichy, Tamilnadu, India.	Bharathidasan University	2005
4	Ph.D.,	Department of Physics, Alagappa University, Karaikudi, Tamilnadu, India.	Alagappa University	2010
5	Post Doc	Millimeter-Wave Innovation Technology Research Center (MINT), Dongguk University, Seoul 100-715, Republic of Korea.	Dongguk University	2012

## Work Experience

S.No	Name of the Institution/Organisation	Designation	Nature of Work	Period
1	Department of Physics, Sree Sevugan Annamalai College, Devakotai, Sivagangai, Tamilnadu, India.	Lecturer	Self financed	(23.09.2004-12.04.2005)
2	Department of Physics, Ananda College, Devakottai, Sivagangai, Tamilnadu, India.	Lecturer	Self financed	(06.06.2005 - 28.08.2011)
3	Department of Physics, Arul Anandar College, Karumathur, Madurai, Tamilnadu, India.	Assistant Professor	Aided	(18.06.2012 to till now)

## Publications (Contributions in Journals/Edited Books/Proceedings)

Title of the Paper	Name of the Journal/Book/Proceedings	Whether Journal/Book/Proceedings	Year	Vol/Page Nos	ISSN/ISBN No	Publisher and Place
Comparative investigation on nanocrystal structure, optical, and electrical properties of ZnO and Sr-doped ZnO thin films using chemical bath deposition method	Journal of Materials Science	Journal	2008 (March)	43 (1776-1782)	0022-2461	Springer
Optimization of growth conditions of ZnO nano thin films by chemical double dip technique	Journal Science and Technology of Advanced Materials	Journal	2008 (Sep)	9(0350-07)	1468-6996	Springer
Shape-selective synthesis and optoelectronic properties of Eu <sup>3+</sup> -doped gadolinium oxysulfide nanostructures	Journal of Materials Science	Journal	2009 (July)	44(14) (3889-3899)	0022-2461	Springer
Shape-selective synthesis and optoelectronic properties of Eu <sup>3+</sup> -doped gadolinium oxysulfide nanostructures	Journal of Materials Science	Journal	2009 (Aug)	44(16) (4510-4510)	0022-2461	Springer

Improvement of the cycle life of LiCoO <sub>2</sub> powder by Sr doping	Journal of Alloys and Compounds	Journal	2010 (April)	494 (434-438)	0925-8388	Elsevier
Effect of Pb doping on structural and electrochemical properties of combustion synthesised LiCoO <sub>2</sub> powder	Journal of Materials Science	Journal	2010 (May)	45 (2317-2323)	0022-2461	Springer
Effect of Mg doping on the properties of combustion synthesized LiCoO <sub>2</sub> powders	Journal of Materials Science: Materials in Electronics	Journal	2010 (August)	21 (827-832)	0957-4522	Springer
Synthesis and improved electrochemical performance of LiCo <sub>1-x</sub> Sn <sub>x</sub> O <sub>2</sub> (x= 0 to 0.1) powders	Crystal Research and Technology	Journal	2010 (August)	45(835-839)	1521-4079	Springer
Nanocrystalline Mg Doped ZnO Dilute Magnetic Semiconductor Prepared by Chemical Route	Advanced Science Letters	Journal	2010 (Sep)	3 (319-322)	1936-6612	American Scientific Publishers
Structural and electrochemical investigation of Zn-doped LiCoO <sub>2</sub> powders	Ionics	Journal	2011 (Jan)	18(1-2)	094770 47	Springer
Structural and electrochemical investigation of Zn-doped LiCoO <sub>2</sub> powders	Materials Science	Journal	2011 (Jan)	18(39-45)	1573-885X	Springer
Structural and electrochemical properties of Eu-doped LiCoO <sub>2</sub>	Journal of Materials Science: Materials in Electronics	Journal	2011 (Feb)	22(2) (151-157)	0957-4522	Springer
Synthesis and chemical properties of Y <sub>2</sub> O <sub>2</sub> S:Eu <sup>3+</sup> nanostructures using composite-hydroxide-mediated method	Micro & Nano Letters	Journal	2011 (Sep)	6 (8) (614-618)	175004 43	Springer
Influence of Deposition Time on the Microstructure and Transport Properties of CdO Thin Films Prepared by Chemical Bath Deposition	Journal of Surface Engineered Materials and Advanced Technology	Journal	2012 (April)	02(02)( 71-71)	2161-489X	Scientific research

Shape-dependent electrical property of solution synthesized ZnO nanorods	Semiconductor Science and Technology	Journal	2012 (Aug)	27(10) (105006)	136166 41	IOP
Thermally stable memory devices using graphene flakes sandwiched polymethyl methacrylate polymer layers	Electronic Materials Letters	Journal	2012 (Dec)	8(649-653)	2093-6788	Springer
Piezo and photoelectric coupled nanogenerator using CdSe quantum dots incorporated ZnO nanowires in ITO/ZnO NW/Si structure	Materials Chemistry and Physics	Journal	2013 (Feb)	138(262-269)	0254-0584	Elsevier
Bipolar resistive switching of solution processed TiO <sub>2</sub> -graphene oxide nanocomposite for nonvolatile memory applications	Physics Letters A	Journal	2013 (July)	377(372432-2435)	0375-9601	Elsevier
Variation of Microstructural and Optical Properties in SILAR Grown ZnO Thin Films by Thermal Treatment	Journal of Nanoscience and Nanotechnology	Journal	2013 (Aug)	13(5613-5619)	1533-4880	American Scientific Publishers
High-performance memory device using graphene oxide flakes sandwiched polymethylmethacrylate layers	Journal of Nanoscience and Nanotechnology	Journal	2013 (Oct)	13(10) (6755-6759)	1533-4880	American Scientific Publishers
Role of Solution pH on the Microstructural Properties of Spin Coated Cobalt Oxide Thin Films	Journal of Nanoscience and Nanotechnology	Journal	2014 (June)	14(6) (4286-4191)	1533-4880	American Scientific Publishers
Microstructural, optical and electrical properties of various time annealed spin coated MgO thin films	Journal of Materials Science: Materials in Electronics	Journal	2014 (Sep)	25(9) (3846-3853)	0957-4522	Springer
Role of immersion time on the properties of SILAR deposited CuO thin films	Journal of Materials Science: Materials in Electronics	Journal	2015 (Feb)	26(921-926)	0957-4522	Springer
Optical and microstructural properties of sol-gel spin coated MgAl <sub>2</sub> O <sub>4</sub> thin films	Digest Journal of Nanomaterials and	Journal	2015 (April)	10 (643 -	1842-3582	National Institute R&D

	Biostructures			654)		Materials
Studies on SILAR deposited Cu <sub>2</sub> O and ZnO films for solar cell applications	Journal of Materials Science: Materials in Electronics	Journal	2015 (April)	26(5030–5036)	0957-4522	Springer
Studies on chemical bath deposited CuO thin films for solar cells application	Journal of Materials Science: Materials in Electronics	Journal	2015 (July)	26(8489-8496)	0957-4522	Springer
Effect of Trisodium Citrate Concentration on the Structural and Photodiode Performance of CdO Thin Films	Journal of Electronic Materials	Journal	2015 (Aug)	44 (2800-2806)	03615235	Springer
Effect of bath concentration on the growth and photovoltaic response of SILAR-deposited CuO thin films	Applied Physics A	Journal	2015 (Sep)	120, 1105–1111	0947-8396	Springer
Improved Memory Effect of ZnO Nanorods Embedded in an Insulating Polymethylmethacrylate Layer	Journal of Nanoscience and Nanotechnology	Journal	2015 (Sep)	15(1416-1420)	1533-4880	American Scientific Publishers
Effect of indium on photovoltaic property of n-ZnO/p-Si heterojunction device prepared using solution-synthesized ZnO nanowire film	Journal of Photonics for Energy	Journal	2015 (Dec)	5(053085)	19477988	SPIE
Effect of film thickness on the solar cell performance of CBD grown CdS/PbS heterostructure	Journal of Materials Science: Materials in Electronics	Journal	2016 (March)	27(2574-2580)	0957-4522	Springer
Effect of annealing temperature on the structural, morphological, optical and electrical properties of Co <sub>3</sub> O <sub>4</sub> thin film by nebulizer spray pyrolysis technique	Journal of Materials Science: Materials in Electronics	Journal	2016 (April)	27(3860-3866)	0957-4522	Springer
Studies on optical and electrical properties of SILAR-deposited CuO thin films	Material Research Innovations	Journal	2016 (July)	21(146-151)	1432-8917	Maney
Effect of adsorption time on structural, optical and electronic properties of SILAR deposited CuO	Journal of Materials Science:	Journal	2016 (Sep)	27(9179-	0957-4522	Springer

thin films	Materials in Electronics			9185)		
Effect of fluorine (an anionic dopant) on transparent conducting properties of Sb (a cationic) doped ZnO thin films deposited using a simplified spray technique	Materials Research Bulletin	Journal	2016 (Nov)	83(442-452)	0025-5408	Elsevier
Effect of Co doped material on the structural, optical and magnetic properties of Cu <sub>2</sub> O thin films by SILAR technique	Journal of Materials Science: Materials in Electronics	Journal	2017 (March)	28(5)(4431-4439)	0957-4522	Springer
Studies on copper oxide thin films prepared by simple nebulizer spray technique	Journal of Materials Science: Materials in Electronics	Journal	2017 (May)	28(9)(6754-6762)	0957-4522	Springer
Substrate temperature dependent opto-electronic properties of perfume atomized CdO thin films	Inorganic and Nano-Metal Chemistry	Journal	2017 (Aug)	47(11)1495-1500	24701556, 24701564	Taylor and Francis Ltd
Development of SnS (FTO/CdS/SnS) thin films by nebulizer spray pyrolysis (NSP) for solar cell applications	Journal of Molecular Structure	Journal	2017 (Sep)	1152(137-144)	0022-2860	Elsevier
Structural, morphological and optical properties of SnS <sub>2</sub> thin films by nebulized spray pyrolysis technique	Journal of Materials Science: Materials in Electronics	Journal	2017 (Oct)	28(19)(14209-14216)	0957-4522	Springer
Structural, optical and nonlinear optical studies of AZO thin film prepared by SILAR method for electro-optic applications	Physica B: Condensed Matter	Journal	2017 (Oct)	523(15)(31-38)	0921-4526	Elsevier
Effect of solvents on sol-gel spin-coated nanostructured Al-doped ZnO thin films: a film for key optoelectronic applications	Applied Physics A	Journal	2017 (Nov)	123(12)(801)	0947-8396	Springer
Effect of sulfur concentration on the properties of tin disulfide thin films by nebulizer spray pyrolysis technique	Journal of Materials Science: Materials in Electronics	Journal	2017 (Dec)	28(24)(18675-18685)	0957-4522	Springer

Effect of different solvents on the key structural, optical and electronic properties of sol-gel dip coated AZO nanostructured thin films for optoelectronic applications	Journal of Materials Science: Materials in Electronics	Journal	2018 (Jan)	29(2)( 887- 897)	0957- 4522	Springer
Effect of Gd <sup>3+</sup> doping on key structural, morphological, optical, and electrical properties of CdO thin films fabricated by spray pyrolysis using perfume atomizer	Journal of Sol-Gel Science and Technology	Journal	2018 (Jan)	85(31- 40)	157348 46, 092807 07	Springer
Rare earth Sm <sup>3+</sup> co-doped AZO thin films for opto-electronic application prepared by spray pyrolysis	Ceramics International	Journal	2018 (Jan)	44(673 0- 6738)	027288 42	Elsevier
An effect of temperature on structural, optical, photoluminescence and electrical properties of copper oxide thin films deposited by nebulizer spray pyrolysis technique	Materials Science in Semiconductor Processing	Journal	2018 (Jan)	74 (129- 135)	1369- 8001	Elsevier
Investigation of molar concentration effect on structural, optical, electrical, and photovoltaic properties of spray-coated Cu <sub>2</sub> O thin films	Surface and Interface Analysis	Journal	2018 (Jan)	50(3) ( 346- 353)	1096- 9918	Wiley
Effect of Precursors on Key Opto-electrical Properties of Successive Ion Layer Adsorption and Reaction-Prepared Al:ZnO Thin Films	Journal of Electronic Materials	Journal	2018 (Feb)	47(2)( 1335- 1343)	036152 35	Springer
Evaluation of the physical, optical, and electrical properties of SnO <sub>2</sub> : F thin films prepared by nebulized spray pyrolysis for optoelectronics	Journal of Materials Science: Materials in Electronics	Journal	2018 (March)	29(5)( 3648- 3656)	0957- 4522	Springer
Cu:ZnS and Al:ZnS thin films prepared on FTO substrate by nebulized spray pyrolysis technique	Journal of Materials Science: Materials in Electronics	Journal	2018 (March)	29(6)( 4612- 4623)	0957- 4522	Springer
Investigation of structural, optical and electrical properties of ZnS thin films prepared by nebulized spray pyrolysis for solar cell applications	Optical and Quantum Electronics	Journal	2018 (March)	50:153	0306- 8919	Springer
Influence of tin precursor concentration on physical properties	Journal of Asian Ceramic	Journal	2018	121-	2187-	Taylor and

of nebulized spray deposited tin disulfide thin films	Societies		(March)	131	0764	Francis Ltd
Evaluation of the structural, optical and electrical properties of AZO thin films prepared by chemical bath deposition for optoelectronics	Solid State Science	Journal	2018 (April)	78(58-68)	12932558	Elsevier
Effect of potential voltages on key functional properties of transparent AZO thin films prepared by electrochemical deposition method for optoelectronic applications	Journal of Materials Research	Journal	2018 (April)	33(11) (1523-1533)	0884-2914	Cambridge University Press
Fabrication of Eu doped CdO [Al/Eu-nCdO/p-Si/Al] photodiodes by perfume atomizer based spray technique for opto-electronic applications	Journal of Molecular Structure	Journal	2018 (May)	1160 (15)(311-318)	0022-2860	Elsevier
Nd <sup>3+</sup> Doping effect on the optical and electrical properties of SnO <sub>2</sub> thin films prepared by nebulizer spray pyrolysis for opto-electronic application	Materials Research Bulletin	Journal	2018 (May)	101(264-271)	0025-5408	Elsevier
Rare earth Eu <sup>3+</sup> co-doped AZO thin films prepared by nebulizer spray pyrolysis technique for optoelectronics	Journal of Sol-Gel Science and Technology	Journal	2018 (May)	86(293-304)	15734846, 09280707	Springer
Effect of solvent on the key properties of Al doped ZnO films prepared by nebulized spray pyrolysis technique	Materials Chemistry and Physics	Journal	2018 (June)	212(167-174)	0254-0584	Elsevier
Effect of Pr <sup>3+</sup> doping on key properties of CdO thin films deposited by spray pyrolysis using perfume atomizer	Journal of Physics and Chemistry of Solids	Journal	2018 (July)	118(211-220)	0022-3697	Elsevier
Effect of Neodymium doping on the structural, morphological, optical and Journal electrical properties of copper oxide thin films	Journal of Materials Science: Materials in Electronics	Journal	2018 (July)	19(13)(10921-10932)	0957-4522	Springer
Influence of substrate temperature on the physical properties of SnS <sub>2</sub> thin films prepared using nebulized spray pyrolysis technique	Journal of Materials Science: Materials in Electronics	Journal	2018 (July)	29(13)(11529-11539)	0957-4522	Springer



Influence of carrier gas pressure on nebulizer spray deposited tin disulfide thin films	Journal of Materials Science: Materials in Electronics	Journal	2018 (July)	29(13)(11358-11366)	0957-4522	Springer
Effect of deposition temperature on key optoelectronic properties of electrodeposited cuprous oxide thin films	Optical and Quantum Electronics	Journal	2018 (July)	50 (281)	0306-8919	Springer
Fabrication of antimony doped tin disulfide thin films by an inexpensive, modified spray pyrolysis technique using nebulizer	Journal of Physics and Chemistry of Solids	Journal	2018 (Aug)	119(9-18)	0022-3697	Elsevier
Effect of spray pressure on optical, electrical and solar cell efficiency of novel Cu <sub>2</sub> O thin films	Surface and Coatings Technology	Journal	2018 (Aug)	347(15)(164-172)	02578972	Elsevier
Solution volume effect on structural, optical and photovoltaic properties of nebulizer spray deposited SnS thin films	Journal of Materials Science: Materials in Electronics	Journal	2018 (Aug)	29(15)(12899-12909)	0957-4522	Springer
Transition metal (Mn) and rare earth (Nd) di-doped novel ZnO nanoparticles: a facile sol-gel synthesis and characterization	Journal of Materials Science: Materials in Electronics	Journal	2018 (Aug)	29(15)(13077-13086)	0957-4522	Springer
The consequence of immersion time in chemical bath deposition on the properties of CuO thin films	Journal of Surface Engineering	Journal	2018 (Oct)	35(10) (891-898)	02670844	Maney
Influence of substrate temperature on the SnS absorber thin films and SnS/CdS heterostructure prepared through aerosol assisted nebulizer spray pyrolysis	Materials Research Express	Journal	2018 (Oct)		2053-1591	IOP
Improving the conductivity of cuprous oxide thin film by doping Calcium via feasible nebulizer spray technique for solar cell (FTO/ZnO/Ca-Cu <sub>2</sub> O)	Materials Research Express	Journal	2018 (Oct)	6(2)	2053-1591	IOP
Effects of Al composition on the secondary phase formation and thermoelectric properties of Zn <sub>1-x</sub> Al <sub>x</sub> O nanocrystals	Journal of Physics and Chemistry of Solids	Journal	2018 (Nov)	122(162-166)	0022-3697	Elsevier

Facile synthesis and characterization of undoped, Mn doped and Nd co-doped CuO nanoparticles for optoelectronic and magnetic applications	Journal of Molecular Structure	Journal	2018 (Nov)	1171(388-395)	0022-2860	Elsevier
Novel rare earth Gd and Al co-doped ZnO thin films prepared by nebulizer spray method for optoelectronic applications	Superlattices and Microstructures	Journal	2018 (Nov)	123 (311-322)	10963677, 07496036	Elsevier
Effect of thermal annealing on nebulizer spray deposited tin sulfide thin films and their application in a transparent oxide/CdS/SnS heterostructure	Thin Solid Films	Journal	2018 (Nov)	666 (85-93)	0040-6090	Elsevier
An investigation on SnS layers for solar cells fabrication with CdS, SnS <sub>2</sub> and ZnO window layers prepared by nebulizer spray method	Applied Physics A	Journal	2018 (Nov)	124(776)	0947-8396	Springer
Effect of Nd doping on structural and opto-electronic properties of CdO thin films fabricated by a perfume atomizer spray method	Bulletin of Materials Science	Journal	2018 (Nov)	42(8)	02504707	Indian Academy of Sciences
Analysis of Cu doping concentration on PbS thin films for the fabrication of solar cell using feasible nebulizer spray pyrolysis	Materials Research Express	Journal	2018 (Dec)	6(5)	2053-1591	IOP
Influence of rare earth material (Sm <sup>3+</sup> ) doping on the properties of electrodeposited Cu <sub>2</sub> O films for optoelectronics	Journal of Materials Science: Materials in Electronics	Journal	2019 (Feb)	30(3)(2530-2537)	0957-4522	Springer
Fabrication and characterization of lead sulfide (PbS) thin film based heterostructure (FTO/CdS/PbS/Ag) solar cell by nebulizer spray method	Materials Research Express	Journal	2019 (Feb)	6(5)	2053-1591	IOP
Effect of rare earth Pr doping on core characteristics of electrodeposited nanocrystalline Cu <sub>2</sub> O films: a film for optoelectronic technology	Journal of Sol-Gel Science and Technology	Journal	2019 (March)	90(3)(578-588)	15734846, 09280707	Springer
In-depth study on structural, optical, photoluminescence and electrical properties of electrodeposited Cu <sub>2</sub> O thin films for optoelectronics: An	Microelectronics Engineering	Journal	2019 (March)	210(27-34)	1873-5568	Elsevier

effect of solution pH						
Physical properties evaluation of nebulized spray pyrolysis prepared Nd doped ZnO thin films for opto-electronic applications	Journal of Materials Science: Materials in Electronics	Journal	2019 (April)	30(725-7267)	0957-4522	Springer
Investigations on Fe doped SnS thin films by nebulizer spray pyrolysis technique for solar cell applications	Journal of Materials Science: Materials in Electronics	Journal	2019 (April)	30(802-8034)	0957-4522	Springer
Influence of Al doping concentration on the opto-electronic chattels of SnS thin films readied by NSP	Optical and Quantum Electronics	Journal	2019 (April)	51(4) (100)	0306-8919	Springer
Preparation and Characterization of Sol-Gel Dip Coated Al: ZnO (AZO) Thin Film for Opto-Electronic, Application	Semiconductors	Journal	2019 (April)	53(447-451)	16744926	Springer
Preparation of Eu-Doped Cu <sub>2</sub> O Thin Films Using Different Concentrations by SILAR and Their Heterojunction Property with ZnO	Journal of Electronic Materials	Journal	2019 (April)	48 (4138-4147)	03615235	Springer
Enhanced optoelectronic properties of Mg doped Cu <sub>2</sub> O thin films prepared by nebulizer pyrolysis technique	Journal of Materials Science: Materials in Electronics	Journal	2019 (June)	30(24)(1-11)	0022-2461	Springer
Effect of carrier gas pressure on structural, optical and photovoltaic properties of tin sulphide thin films prepared by nebulizer spray pyrolysis method	Bulletin of Materials Science	Journal	2019 (June)	42(3)	02504707	Springer
Nebulizer spray assisted chemical vapour deposited (NACVD) tin disulfide (SnS <sub>2</sub> ) thin films for solar cell window layer applications	Materials Research Express	Journal	2019 (July)	6(9) 096422	2053-1591	IOP
Correction to: Effect of Gd <sup>3+</sup> doping on key structural, morphological, optical, and electrical properties of CdO thin films fabricated by spray pyrolysis using perfume atomizer	Journal of Sol-Gel Science and Technology	Journal	2019 (July)	93 (225 - 227)	15734846, 09280707	Springer
Enhancement in photovoltaic properties of Nd:SnS films prepared	Rare Metals	Journal	2019	(1-10)	100105	Elsevier

by low-cost NSP method			(July)		21	
Investigation on nebulizer spray coated Nd-doped SnS <sub>2</sub> thin films for solar cell window layer application	Journal of Materials Science: Materials in Electronics	Journal	2019 (Aug)	30 (13964 - 13973)	0957-4522	Springer
An effect of novel Nd <sup>3+</sup> doping on physical properties of nebulizer spray pyrolysis fabricated ZnS thin films for optoelectronic technology	Physica B: Condensed Matter	Journal	2019 (Aug)	572 (109-116)	09214526	Elsevier
A noticeable effect of novel Nd <sup>3+</sup> doping on physical properties of nebulizer spray deposited AZO thin films for optoelectronic technology	Optical and Quantum Electronics	Journal	2019 (Sep)	51(10) (320)	0306-8919	Springer
An effect of Gd <sup>3+</sup> doping on core properties of ZnS thin films prepared by nebulizer spray pyrolysis (NSP) method	Physica B: Condensed Matter	Journal	2019 (Sep)	574(411674)	09214526	Elsevier
Analysis of Pr co-doped Al:ZnO thin films using feasible nebulizer spray technique for optoelectronic technology	Applied Physics A	Journal	2019 (Sep)	125 (10)	0947-8396	Springer
Investigation on structural, optical and photovoltaic properties of Barium doped cuprous oxide thin films by nebulizer spray technique	Materials Research Express	Journal	2019 (Oct)	6911)	2053-1591	IOP
Investigation on nebulizer spray deposited Gd-doped PbS thin films for photo sensing applications	Journal of Materials Science: Materials in Electronics	Journal	2019 (Oct)	30(18858 - 18865)	0957-4522	Springer
Deposition of p-type Al doped PbS thin films for heterostructure solar cell device using feasible nebulizer spray pyrolysis technique	Physica B: Condensed Matter	Journal	2019 (Oct)	575 (411704)	09214526	Elsevier
Improving carrier transport in strontium-doped cuprous oxide thin films prepared by Nebulizer spray pyrolysis for solar cell applications	Indian Journal of Physics	Journal	2019 (Oct)	94(10)	0973-1458	Springer
"Response to "Comment on An effect of novel Nd <sup>3+</sup> doping on physical properties of nebulizer	Physica B: Condensed	Journal	2019 (Nov)	577(411867)	09214526	Elsevier

spray pyrolysis fabricated ZnS thin films for optoelectronic technology	Matter					
Microstructural and electrical properties evaluation of lead doped tin sulfide thin films	Journal of Sol-Gel Science and Technology	Journal	2019 (Nov)	93(52-61)	15734846, 09280707	Springer
Effect of Er doping on the ammonia sensing properties of ZnO thin films prepared by a nebulizer spray technique	Journal of Physics and Chemistry of Solids	Journal	2020 (April)	144:109513	0022-3697	Elsevier
Physical and electrical properties' evaluation of SnS:Cu thin films	Surface Engineering	Journal	2020 (April)	(1-11)	02670844	Taylor and Francis Ltd
Unraveling the enhanced photocatalytic decomposition efficacy of the Al-doped ZnO nanoparticles @ graphene sheets	Journal of Physics Applied Physics	Journal	2020 (July)	53(46)	0022-3727	IOP
Enhancement of photo-sensing properties of CdS thin films by changing spray solution volume	Sensors and Actuators A Physical	Journal	2020 (Nov)	315(112306)	09244247	Elsevier
Enhancement of optoelectronic parameters of Nd-doped ZnO nanowires for photodetector applications	Optical Materials	Journal	2020 (Nov)	109(110396)	0925-3467	Elsevier

### Projects Completed

Title of the Project	Principal Investigator/Co investigator	Funding Agency	Duration	Amount
Fabrication and characterization of SnS/ n-Type buffer layers for solar cell application	Principal Investigator	DST-SERB (DST No: SB/FTP/PS-131/2013)	3 Years (2014-2017)	24,90,000

### Reviewer Details

Name of the Journals	Date
Journal of Materials Science: Materials in Electronics	04.10.2018
Ceramics International	03.02.2019

Desalination and Water Treatment	03.02.2019
Optik – International Journal for Light and Electron Optics	30.08.2019
Inorganic and Nano-Metal Chemistry	31.08.2019
The European Physical Journal Plus	31.08.2019
Physica B	14.10.2019
Materials Science in Semiconductor Processing	12.01.2020
RSC Advances	12.01.2020
Optical Materials	29.07.2020
Applied Physics A	05.08.2020

### Ph.D Guideship Details

Subject	University	Guideship Id No	No of Scholars pursuing	No of Scholars Completed
Physics	Madurai Kamaraj university	1372	3	3

### Conference/Workshop/Seminar – Organised

S. No.	NAME OF THE SEMINAR/CONFERENCE/WORKSHOP	ORGANISING CAPACITY	SPONSOR	PERIOD/ DATE
1	The progress in nanocomposites for environmental and device applications	100	NIL	05.08.2020

### Resource Person

Whether Speaker/Moderator/Panalists	Title of the Presentation	Title of the Seminar/Conference/Workshop	Organising institution and Place	Date
Resource Person	Emerging	Seminar	Sree Sevugan	02.10.2015

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	Trends on material characterization		Annamali College, Devakottai	
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### Seminars/conferences/Workshops Attended

Title of the Seminar/conference/Workshop	Level of Seminar/Conference/Workshop	Organising Institution	Date and Place
One day workshop on Materials characterization techniques	Regional	Kalasalingam University	11.02.2015
Academic Audit and quality enhancement in HEIs	National	Arul Anandar College, Karumathur	22.03.2016 & 23.03.2016
Nanoscience and nanotechnologies in the livelihood enhancement of common man (NSLECM-2017)	National	Arul Anandar College, Karumathur	08.02.2017 & 09.02.2017
Advances in Astronomy and space technology(NCAAST-18)	National	Arul Anandar College, Karumathur	29.01.2018
National Conference on quality sustenance in higher education institutions	National	Lady Doak College, Madurai	06.09.2018 & 06.09.2018

### Visits Abroad: -

Countries Visited	Purpose	Dates of Visit	AOI
South Korea	PDF	2012	-

### Achievements & Awards

1. Fr. J.L. Gnanarethinam award for research projects and publications, Arul Anandar College, Karumathur, 2015-16.

2. Meritorious award for publications, Arul Anandar College, Karumathur, 2016-17.
3. Award of excellence for publications, Arul Anandar College, Karumathur, 2017-18.
4. Award for publications, Arul Anandar College, Karumathur, 2018-19.

**Other Details**

1. Orientation Programme, Madurai Kamaraj University, 20.04.2017-17.05.2017.
  2. Refresher course in Physics, Madurai Kamaraj University, 16.11.2018-06.12.2018.
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