

Details of research papers per teacher in the Journals notified on UGC website during the last five years (5)

S.No	Title of paper	Name of the author/s	Department of the teacher	Name of journal	Year of publication	ISSN number	Link to the recognition in UGC enlistment of the Journal / Digital Object Identifier (DOI) number
1	Spectroscopic Studies on Pure and Histidine-Functionalized Multiwalled Carbon Nanotubes	T. Mathavan, M. Kumara Dhas, C. V. Kanimozhi, M. A. Jothi Rajan , S. Umapathy, A. Ramasubbu	Physics	Spectroscopy Letters	2014	0038-7010	https://doi.org/10.1080/00387010.2013.825870
2	Confined energy of two electrons in a spherical quantum dot with interaction effects	Rejo Jeice, K. S. Joseph Wilson	Physics	Indian Journal of Physics	2014	9731458	10.1007/s12648-014-0543-1
3	Effects of Temperature and Hydrostatic Pressure on Binding Energy of an Exciton in a Spherical Quantum Dot	Rejo Jeice, K. S. Joseph Wilson	Physics	e-Journal of Surface Science and Nanotechnology	2014	13480391	10.1380/ejsnt.2014.358

4	Determination of coronal magnetic field in the height range 10-26Ro using the density compression ratios of CME-driven shocks	A. Shanmugaraju; Suresh, K.; Moon, Y. - J.	Physics	Astrophysics and Space Science	2014	0004-640X	https://doi.org/10.1007/s10509-014-1820-3
5	Interacting CMEs and their associated flare and SEP activities	A. Shanmugaraju.; Prasanna Subramanian, S.	Physics	Astrophysics and Space Science	2014	0004-640X	https://doi.org/10.1007/s10509-014-1956-1
6	Interaction Between Two CMEs During 14 - 15 February 2011 and Their Unusual Radio Signature	A. Shanmugaraju.; Prasanna Subramanian, S.; Bojan Vrsnak; Syed Ibrahim, M.	Physics	Solar Physics	2014	0038-0938	https://doi.org/10.1007/s11207-014-0591-x
7	Role of Solution pH on the Microstructural Properties of Spin Coated Cobalt Oxide Thin Films	S. Valanarasu, V. Dhanasekara , M. Karunakaran, R. Chandramohan, and T. Mahalingam	Physics	Journal of Nanoscience and Nanotechnology	2014 (June)	1533-4880	https://doi.org/10.1166/jnn.2014.8284
8	Microstructural, optical and electrical properties of various time annealed spin coated MgO thin films	S. Valanarasu, V. Dhanasekaran , M. Karunakaran , T. A. Vijayan , R. Chandramohan , T. Mahalingam	Physics	Journal of Materials Science: Materials in Electronics	2014 (Sep)	0957-4522	https://doi.org/10.1007/s10854-014-2098-5

9	Bio-compatible carbonate rich colloidal nano hydroxyapatite: Extraction and Investigations	S. Asha, B. Prakash , A. Nimrodh Ananth, Sujin P. Jose, R. S. Jayasree and M. A. Jothi Rajan	Physics	Journal of Green Science and Technology	2015	2164-7585	10.1166/jgst.2015.1040
10	Effect of temperature on nanocomposite of metal nanoparticles in photonic crystals	Nambi R. Ramanujam, K. S. Joseph Wilson , Vasana Revathy	Physics	Progress In Electromagnetics Research M	2015	1070-4698	10.2528/PIERM14121001
11	Polariton dispersion in nanocomposite materials	V. Revathy, K. S. Joseph Wilson	Physics	NANOFORUM 2014	2015	1941-4900	10.1063/1.4918001
12	Polariton dispersion of a quantum wire superlattice system	K. S. Joseph Wilson , Amalanathan M V, Revathy S. Maria Lenin	Physics	NANOFORUM 2014	2015	1941-4900	10.1063/1.4918017
13	Generation of higher odd harmonics in a defective photonic crystal	Nambi R. Ramanujam, K. S. Joseph Wilson	Physics	NANOFORUM 2014	2015	1941-4900	10.1063/1.4918236
14	Effect of hydrostatic pressure on the optical properties of a donor in a	Rejo Joice Gerardin Jayam, S., Sr K. S. Joseph Wilson	Physics	Chinese Physics B	2015	1674-1056	10.1088/1674-1056/24/11/110303

	spherical quantum dot						
15	Temperature dependence of optical parameters of a nanocomposite system	Nambi R. Ramanujam, K. S. Joseph Wilson , V Revathy	Physics	Indian Journal of Physics	2015	9731458	10.1007/s12648-015-0692-x
16	Effect of Hydrostatic Pressure on the Optical Properties of a Donor in a Spherical Quantum Dot	A. Rejo Jeice, K. S. Joseph Wilson	Physics	Materials today: proceedings	2015	2214-7853	10.1016/j.matpr.2015.06.025
17	Properties of one Dimensional Photonic Crystals with Defects Thickness and Temperature Dependence	Nambi R. Ramanujam, K. S. Joseph Wilson , V. Revathy M. Maria Lenin	Physics	Materials today: proceedings	2015	2214-7853	10.1016/j.matpr.2015.06.016
18	Transit time of CME/shock associated with four major geo-effective CMEs in solar cycle 24	Syed Ibrahim, M.; A. Shanmugaraju. ; Benedict Lawrence, M.	Physics	Advances in Space Research	Jan,2015	0273-1177	https://doi.org/10.1016/j.asr.2014.09.031
19	Investigation on Radio-Quiet and Radio-Loud Fast CMEs and Their Associated Flares During	A. Shanmugaraju. ; Suresh,K.	Physics	Solar Physics	Mar,2015	0038-0938	https://doi.org/10.1007/s11207-014-0637-0

	Solar Cycles 23 and 24						
20	Arrival time of solar eruptive CMEs associated with ICMs of magnetic cloud and ejecta	Shanmugaraju. A; Syed Ibrahim, M.; Moon, Y. - J.; Kasro Lourdhina, K.; Dharanya, M.	Physics	Astrophysics and Space Science	May,2015	Print:0004-640X	https://doi.org/10.1007/s10509-015-2251-5
21	Empirical Relationship Between CME Parameters and Geo-effectiveness of Halo CMEs in the Rising Phase of Solar Cycle 24	Shanmugaraju. A; Syed Ibrahim, M.; Moon, Y. - J.; Mujiber Rahman, A.; Umapathy, S.	Physics	Solar Physics	May,2015	0038-0938	https://doi.org/10.1007/s11207-015-0671-6
22	Halo Coronal Mass Ejections and their relation to DH type II radio bursts	A. Shanmugaraju.; Bendict Lawrence, M.	Physics	Solar Physics	Oct,2015	0038-0938	https://doi.org/10.1007/s11207-015-0765-1
23	Investigation of X-class Flare-Associated Coronal Mass Ejections with and without DH Type II Radio Bursts	Bendict Lawrence, M.; A. Shanmugaraju.; Vrsnak, Bojan.	Physics	Solar Physics	Nov.	0038-0938	https://doi.org/10.1007/s11207-015-0811-z
24	Investigations of slow and fast Coronal Mass Ejections and their associated activities in Solar Cycle 24	M. Bendict Lawrence, S. Prasanna Subramanian, A. Shanmugaraju	Physics	Indian Journal of Radio and Space Physics	Sep.2015	0367-8393	http://op.niscair.res.in/index.php/IJRSP/article/view/8823

25	Role of immersion time on the properties of SILAR deposited CuO thin films	A. T. Ravichandran ,K. Dhanabalan , S. Valanarasu , A. Vasuhi , A. Kathalingam	Physics	Journal of Materials Science: Materials in Electronics	2015(Feb)	0957-4522	https://doi.org/10.1007/s10854-014-2483-0
26	Optical and microstructural properties of sol-gel spin coated MgAl ₂ O ₄ thin films	S. Valanarasu , V. Dhanasekara , M. Karunakaran, T. A. Vijayan, I. Kulandaisamy ,R. Chandramohan,K K. Lee and T. Mahalingam	Physics	Digest Journal of Nanomaterials and Biostructures	2015(April)	1842-3582	#VALUE!
27	Studies on SILAR deposited Cu ₂ O and ZnO films for solar cell applications	N. Soundaram,Rathinam Chandramohan, S. Valanarasu , R. Thomas ,Kathalingam Adaikalam	Physics	Journal of Materials Science: Materials in Electronics	2015(April)	0957-4522	https://doi.org/10.1007/s10854-015-3020-5
28	Studies on chemical bath deposited CuO thin films for solar cells application	V. Ramya, K. Neyvasagam, R. Chandramohan, S. Valanarasu , A. Milton Franklin	Physics	Journal of Materials Science: Materials in Electronics	2015(July)	0957-4522	https://doi.org/10.1007/s10854-015-3520-3

		Benial					
29	Effect of Trisodium Citrate Concentration on the Structural and Photodiode Performance of CdO Thin Films	M. Ravikumar, S. Valanarasu , R. Chandramohan, S. Santhosh Kumar Jacob , and A. Kathalingam	Physics	Journal of Electronic Materials	2015(August)	3615235	https://doi.org/10.1007/s11664-015-3759-8
30	Effect of bath concentration on the growth and photovoltaic response of SILAR-deposited CuO thin films	S. Visalakshi, R. Kannan, S. Valanarasu , Hyun-Seok Kim, A. Kathalingam, R. Chandramohan	Physics	Applied Physics A	2015(Sep)	0947-8396	https://doi.org/10.1007/s00339-015-9285-y
31	Improved Memory Effect of ZnO Nanorods Embedded in an Insulating Polymethylmethacrylate Layer	S. Valanarasu , A. Kathalingam, Jin-Koo Rhee, R. Chandramohan, T. A. Vijayan, and M. Karunakaran	Physics	Journal of Nanoscience and Nanotechnology	2015 (Sep)	1533-4880	https://doi.org/10.1166/jnn.2015.9034
32	Effect of indium on photovoltaic property of n-ZnO/p-Si heterojunction device prepared using solution-synthesized ZnO	Adaikalam Kathalingam, Hyun-Seok Kim, Hyung-Moo Park, Santiyagu Valanarasu , Thaiyan	Physics	Journal of Photonics for Energy	2015 (Dec)	19477988	https://doi.org/10.1117/1.JPE.5.053085

	nanowire film	Mahalingam					
33	Watsoniameriana flower like Fe ₃ O ₄ /reduced graphene oxide nanocomposite for the highly sensitive and selective electrochemical sensing of dopamine	G. Jenita Rani, K. Justice Babu, G. Gnana kumar, M.A. Jothi Rajan	Physics	Journal of Alloys and Compounds	2016	0925-8388	http://dx.doi.org/10.1016/j.jallcom.2016.07.101
34	Synthesis and characterization of folic acid conjugated silver/gold nanoparticles for biomedical Applications	G.VanithaKumari, A.Nimrodh Ananth, S.Asha, M.A.Jothi Rajan	Physics	Materials Today proceedings	2016	2214-7853	10.1016/j.matpr.2016.11.099
35	A Comparative Study on the Biopolymer Functionalized Iron Oxide Nanocomposite for Antimicrobial Activity	S. Maria Dhivya, S.M. Sathiya, G. Manivannan, M.A. Jothi Rajan	Physics	Materials Today proceedings	2016	2214-7853	10.1016/j.matpr.2016.11.042
36	Synthesis and Characterization of Pectin Functionalized Bimetallic Silver/Gold Nanoparticles	VanithaKumari G, Asha S,MathavanT,and M	Physics	Journal of Physical Chemistry &	2016	2161-0398	10.4172/2161-0398.1000221

	for Photodynamic Applications	A Jothi Rajan		Biophysics			
37	Interaction of Chitosan/ Zinc Oxide nanocomposites and their antibacterial activities with Escherichia coli	S. M. Sathiya, G.S. Okram, S. Maria Dhivya, G. Manivannan, M A Jothi Rajan	Physics	Materials Today: Proceedings	2016	2214-7853	10.1016/j.matpr.2016.11.040
38	Electrical Dimensions and Enhancement of Ionic Conductivity of Mixing of KI in Biopolymeric Starch by Gelation Method	E. Bementa, M. A. Jothi Rajan	Physics	Materials Today: Proceedings	2016	2214-7853	https://doi.org/10.1016/j.matpr.2016.11.033
39	Polaronic effects on diamagnetic susceptibility of a hydrogenic donor in nanostructures	A. R. Jeice Sr. G. Jayam, K. S. Joseph wilson	Physics	Indian Journal of Physics	2016	0973-1458	10.1007/s12648-015-0816-3
40	Optical properties of silver nanocomposites and photonic band gap – Pressure dependence	Nambi R. Ramanujam, K. S. Joseph Wilson	Physics	Optics Communications	2016	304018	10.1016/j.optcom.2016.02.018
41	Effect of external perturbations on phonon-polariton modes and photonic band gap in	Nambi R. Ramanujam, K. S. Joseph Wilson	Physics	Optics Communications	2016	304018	10.1016/j.optcom.2016.10.059

	piezoelectric crystal						
42	Comparison of ICME Parameters Using Drag Based Model for Interacting and Non-interacting CMEs	S. Prasanna Subramanian, A. Shanmugaraju , B. Vršnak	Physics	Central European Astronomical Bulletin	2016	0351-2657	http://oh.geof.unizg.hr/images/publications/volumes/vol40-2016/2016CEAB40177P.pdf
43	Solar and interplanetary activities of isolated and non-isolated coronal mass ejection	Bendict Lawrence, M.; A. Shanmugaraju ; Y-J Moon ;S Umapathy		Indian journal of physics	2016	0973-1458	https://doi.org/10.1007/s12648-017-0966-6
44	A Study on the Kinematics of a CME-Shock Interaction Event Associated with Flares and Type II Bursts on 22 May 2013	S. Prasanna Subramanian, A. Shanmugaraju , B. Vršnak	Physics	Central European Astronomical Bulletin	2016	0351-2657	http://oh.geof.unizg.hr/images/publications/volumes/vol40-2016/2016CEAB40163P.pdf
45	Investigation on the source location of flares associated with type II radio bursts using multi-wavelength observations	Selvarani, G.; Suresh, K.; A. Shanmugaraju .	Physics	Indian Journal of Radio and Space Physics	2016	0367-8393	http://op.niscair.res.in/index.php/IJRSP/article/view/14637

46	Formation and Eruption of a Flux Rope from the Sigmoid Active Region NOAA 11719 and Associated M6.5 Flare: A Multi-wavelength Study	Joshi, Bhuwan; Kushwaha, Upendra; Veronig, Astrid M.; Dhara, Sajal Kumar; A. Shanmugaraju. ; Moon, Yong-Jae	Physics	Astrophysical Journal	2016	2041-8213	https://doi.org/10.3847/1538-4357/834/1/42
47	Characteristics of events with metric-to-decahertz type II radio bursts associated with CMEs and flares in relation to SEP events	Prakash, O.; Feng, Li; Michalek, G.; Gan, Weiqun; Lu, Lei; A. Shanmugaraju. ; Umahathy, S.	Physics	Astrophysics and Space Science	2016 Mar.	Print:0004-640X	https://doi.org/10.1007/s10509-017-3034-y
48	Effect of film thickness on the solar cell performance of CBD grown CdS/PbS heterostructure	N. Kavitha, R. Chandramohan, S. Valanarasu , T. A. Vijayan, S. Rex Rosario , A. Kathalingam	Physics	Journal of Materials Science: Materials in Electronics	2016 (March)	0957-4522	https://doi.org/10.1007/s10854-015-4060-6
49	Effect of annealing temperature on the structural, morphological, optical and electrical properties of Co ₃ O ₄ thin film by nebulizer spray	R. Manogowri, R. Mary Mathelane, S. Valanarasu , I. Kulandaisamy , A. Benazir Fathima, A. Kathalingam	Physics	Journal of Materials Science: Materials in Electronics	2016 (April)	0957-4522	https://doi.org/10.1007/s10854-015-4234-2

	pyrolysis technique						
50	Studies on optical and electrical properties of SILAR-deposited CuO thin films	S. Visalakshi, R. Kannan, S. Valanarasu , A. Kathalingam & S. Rajashabala	Physics	Material Research Innovations	2016(July)	1432-8917	https://doi.org/10.1080/14328917.2016.1194586
51	Effect of adsorption time on structural, optical and electronic properties of SILAR deposited CuO thin films	S. Visalakshi,R. Kannan, S. Valanarasu , A. Kathalingam, S. Rajashabala	Physics	Journal of Materials Science: Materials in Electronics	2016(September)	0957-4522	https://doi.org/10.1007/s10854-016-4954-y
52	Effect of fluorine (an anionic dopant) on transparent conducting properties of Sb (a cationic) doped ZnO thin films deposited using a simplified spray technique	K. Ravichandran, N. Dineshbabu, T. Arun C, Ravidhas, S. Valanarasu	Physics	Materials Research Bulletin	2016(Nov)	0025-5408	https://doi.org/10.1016/j.materresbull.2016.06.033
53	Structural, optical and electrical properties of copper oxide nanoparticles prepared through	S. M. Sathiya , G. S. Okram , M. A. Jothi Rajan	Physics	Advanced Materials Proceedings	2017	2002-4428	10.5185/amp.2017/605

	microwave assistance						
54	Reduced graphene oxide/ZnFe ₂ O ₄ nanocomposite as an efficient catalyst for the photocatalytic degradation of methylene blue dye	G. Jenita Rani, M. A. Jothi Rajan , G. Gnana kumar,	Physics	Research on Chemical Intermediates	2017	1568-5675	https://doi.org/10.1007/s11164-016-2788-0
55	Nano Silver decorated Chitosan based Polyelectrolyte Microcapsules induced generation of excited Oxygen in Curcumin	B Prakash, AN Ananth, S Asha, GV Kumari, SP Jose, M. A. Jothi Rajan	Physics	Materials Today: Proceedings	2017	2214-7853	10.1016/j.matpr.2017.04.007
56	Ionic Conductivity and Power Conversion Efficiency Study of KI Incorporated Glucosyl Carboxonium Ion Based Biopolymer Crust Electrolyte	E. Bementa, G. S. Okram & M. A. Jothi Rajan	Physics	Polymer-Plastics Technology and Engineering	2017	0360-2559	http://dx.doi.org/10.1080/03602559.2017.1381245
57	Biocompatible fluorescent nano-apatite with ionic silver- Its antibacterial activity and cytotoxicity	S. Asha, A. Nimrodh Ananth, G. Vanitha kumari, B. Prakash, Sujin. P. Jose, M. A.	Physics	Materials Today: Proceedings	2017	2214-7853	10.1016/j.matpr.2017.04.001

	towards cancer cells	Jothi Rajan					
58	Effect of Prolonged Duration of Gelatinization in Starch and Incorporation with Potassium Iodide on the Enhancement of Ionic Conductivity	E. Bementa, M. A. Jothi Rajan & Earnest Stephen Gnanadass	Physics	Polymer-Plastics Technology and Engineering	2017	0360-2559	http://dx.doi.org/10.1080/03602559.2017.1289392
59	Europium doped hydroxyapatite nanorods: Influence of silver doping	S. Asha, A.Nimrodh Ananth, Sujin P. Jose, and M. A. Jothi Rajan	Physics	International journal of nanoscience	2017	0219-581X	10.1142/S0219581X17600341
60	Multi-functional bio-compatible luminescent apatite with fatty acid passivated nano silver covers and its theranostics potential	S Asha, A Nimrodh Ananth, G Vanitha Kumari, B Prakash , Sujin P Jose and M A Jothi Rajan	Physics	Advances in Natural Sciences: Nanoscience and Nanotechnology	2017	2043-6254	https://doi.org/10.1088/2043-6254/aa7717
61	Studies on the Crystal growth and Optical properties of novel organic material: O-Phenylenediaminium bis-	I. Md Zahid I. Md Zahid A. Malarkodi K. S. Joseph Wilson	Physics	Materials Letters	2017	0167-577X	10.1016/j.matlet.2017.08.003

	hydrogen phosphonate						
62	Magneto optical properties of silver doped magnetic nanocomposite material	N. Abirami K. S. Joseph Wilson	Physics	Sensing and Bio-Sensing Research	2017	22141804	10.1016/j.sbsr.2017.10.001
63	Growth aspects, structure determination and third order nonlinear optical properties of a novel organic material: 2-phenylethylaminium 5-sulfosalicylate	S. Kalaiyarasi A. Malarkodi M. Nizam Mohideen K. S. Joseph Wilson	Physics	Material Research Innovations	2017	1433075X,	10.1080/14328917.2017.1391448
64	ANALYSIS OF CIRCULAR MICROSTRIP PATCH ANTENNA TO DETECT STRAIN USING METAMATERIAL	A.zaheetha Banu K. S. Joseph Wilson	Physics	International Journal of Scientific and Engineering Research	2017	2229-5518	10.14299/ijser.2017.10.006
65	Substrate and DLARC Layers Selection for High Efficiency Solar Cell	M.Ismail Fathima K. S. Joseph Wilson	Physics	International Journal of Nanoscience	2017	0219-581X	10.1142/S0219581X18500126

66	Characteristics of events with metric-to-decahectometric type II radio bursts associated with CMEs and flares in relation to SEP events	Prakash, O.; Feng, Li; Michalek, G.; Gan, Weiqun; Lu, Lei; A. Shanmugaraju. ; Umaphathy, S.	Physics	Astrophysics and Space Science	2017 Mar.	Print:0004-640X	https://doi.org/10.1007/s10509-017-3034-y
67	Investigation on M-class Flare-Associated Coronal Mass Ejections with and Without DH Type II Radio Bursts	Selvarani, G.; A. Shanmugaraju. ; Vrsnak, Bojan; Lawrance, M. Benedict	Physics	Solar Physics	2017	0038-0938	https://doi.org/10.1007/s11207-017-1097-0
68	propagation of coronal mass ejection observed during the rising phase of solar cycle 24	M.Syed Ibrahim .P.K Manoharan .A.Shanmugaraju.	Physics	Solar Physics	2017	297:133	https://doi.org/10.1007/s11207-017-1151-y
69	Heights of Coronal Mass Ejections and Shocks Inferred from Metric and DH Type II Radio Bursts	A. Shanmugaraju. ; Benedict Lawrance, M.; Moon, Y. J.; Lee, Jae-Ok; Suresh, K.	Physics	Solar Physics	Sep.2017	0038-0938	https://doi.org/10.1007/s11207-017-1155-7
70	Properties and relationship between solar eruptive flares and Coronal Mass Ejections during rising phase of Solar Cycles 23	Syed Ibrahim, M.; A. Shanmugaraju. ; Moon, Y. -J.; Vrsnak, Bojan.; Umaphathy, S.	Physics	Advances in Space Research	Sep.2017	0273-1177	https://doi.org/10.1016/j.asr.2017.09.015

	and 24						
71	Multiwavelength study of a flare and burst associated coronal mass ejection	Subramanian Prasanna; Selvarani,G.; A. Shanmugaraju.	Physics	Indian J. Radio and Space Phys.	2017 Sep	0367-8393	http://op.niscair.res.in/index.php/IJRSP/article/view/12216
72	Effect of Co doped material on the structural, optical and magnetic properties of Cu ₂ O thin films by SILAR technique	K. Dhanabalan, A. T. Ravichandran, K. Ravichandran, S. Valanarasu , Srinivas Mantha	Physics	Journal of Materials Science: Materials in Electronics	2017 (March)	0957-4522	https://doi.org/10.1007/s10854-016-6072-2
73	Studies on copper oxide thin films prepared by simple nebulizer spray technique	R. David Prabu, S. Valanarasu, I. Kulandaisamy , V. Ganesh,Mohd Shkir, A. Kathalingam	Physics	Journal of Materials Science: Materials in Electronics	2017 (May)	0957-4522	https://doi.org/10.1007/s10854-017-6371-2
74	Substrate temperature dependent opto-electronic properties of perfume atomized CdO thin films	M. Ravikumar, R. Chandramohan, S. Valanarasu , R. Manogowri & A. Kathalingam	Physics	Inorganic and Nano-Metal Chemistry	2017 (Aug)	24701556, 24701564	https://doi.org/10.1080/24701556.2017.1357600
75	Development of SnS (FTO/CdS/SnS) thin films by nebulizer spray	A.M.S. Arulanantham, S. Valanarasu , K.	Physics	Journal of Molecular Structure	2017 (Sep)	0022-2860	https://doi.org/10.1016/j.molstruc.2017.09.077

	pyrolysis (NSP) for solar cell applications	Jeyadheepan , V. Ganesh , Mohd Shkir					
76	Structural, morphological and optical properties of SnS ₂ thin films by nebulized spray pyrolysis technique	K. Deva Arun Kumar , S. Valanarasu , V. Tamilnayagam, L. Amalraj	Physics	Journal of Materials Science: Materials in Electronics	2017 (Oct)	0957-4522	https://doi.org/10.1007/s10854-017-7278-7
77	Structural, optical and nonlinear optical studies of AZO thin film prepared by SILAR method for electro-optic applications	D. Joseph Edison, W. Nirmala, K. Deva Arun Kumar, S. Valanarasu , V. Ganesh, Mohd. Shkir, S. AlFaify	Physics	Physica B: Condensed Matter	2017 (Oct)	0921-4526	https://doi.org/10.1016/j.physb.2017.08.021
78	Effect of solvents on sol-gel spin-coated nanostructured Al-doped ZnO thin films: a film for key optoelectronic applications	K. Deva Arun Kumar , S. Valanarasu , A. Kathalingam, V. Ganesh, Mohd. Shkir, S. AlFaify	Physics	Applied Physics A	2017 (Nov)	0947-8396	https://doi.org/10.1007/s00339-017-1426-z
79	Effect of sulfur concentration on the properties of tin disulfide thin films by nebulizer spray pyrolysis technique	A. M. S. Arulanantham, S. Valanarasu , K. Jeyadheepan, A. Kathalingam, I. Kulandaisamy	Physics	Journal of Materials Science: Materials in Electronics	2017 (Dec)	0957-4522	https://doi.org/10.1007/s10854-017-7817-2

80	Reduced graphene oxide aerogel networks with soft interfacial template for applications in bone tissue regeneration	S. Asha, A. Nimrodh Ananth, Sujin P. Jose, M. A. Jothi Rajan	Physics	Applied Nanoscience	2018	2190-5509	https://doi.org/10.1007/s13204-018-0803-z
81	Temperature dependent electron transport behavior of poly (methyl methacrylate)/silver functionalized reduced graphene oxide films	S. Asha, A. Nimrodh Ananth, G. Vanitha Kumari, G. S. Okram, Sujin P. Jose, and M. A. Jothi Rajan	Physics	AIP Conference Proceedings	2018	1551-7616	https://doi.org/10.1063/1.5029028
82	Surface Colonized Silver Nano particles over Chitosan Poly-electrolyte Micro-spheres and its Multi-Functional Behavior	B Prakash, S Asha, AN Ananth, G Vanithakumari, GS Okram, SP Jose, M. A. Jothi Rajan	Physics	Materials Research Express	2018	2053-1591	10.1088/2053-1591/aaa3c6
83	Effect of heat in chitosan dissolution and addition of KI on the enhancement of ionic conductivity	E. Bementa, M. A. Jothi Rajan	Physics	Ionics	2018	1862-0760	https://doi.org/10.1080/03602559.2017.1381245
84	Effect of electric field, dielectric screening and conduction band nonparabolicity of donor in a quantum dot	Rejo Jeice Sr. Gerardin Jayam K. S. Joseph Wilson	Physics	International Journal of Modern Physics B	2018	0217-9792	10.1142/S0217979218501229

85	Analysis of photonic band gap in novel piezoelectric photonic crystal	Malar Kodi V. Doni Pon K. S. Joseph Wilson	Physics	Modern Physics Letters B	2018	0217-9849	10.1142/S0217984918500240
86	Analysis of Polariton Dispersion in Metal Nanocomposite Based Novel Superlattice System	V. Doni Pon K. S. Joseph Wilson A. Malarkodi	Physics	Results in Physics	2018	2211-3797	10.1016/j.rinp.2018.04.049
87	Enhanced sensitivity of cancer cell using one dimensional nano composite material coated photonic crystal	I. S. Amiri K. S. Joseph Wilson	Physics	Microsystem Technologies	2018	0946-7076	10.1007/s00542-018-3947-6
88	Metamaterial Inspired Dual Band Antenna	A.Zaheetha Banu K. S. Joseph Wilson	Physics		2018		10.26438/ijsrpas/v6i6.129133
89	Interplanetary type II radio bursts and their association with CMEs and flares	A. Shanmugaraju. ; Sure sh, K.; Vasanth, V.; Selvarani, G.; Umapathy, S.	Physics	Astrophysics and Space Science	2018 June	Print:0004-640X	https://doi.org/10.1007/s10509-018-3345-7
90	A Major Geoeffective CME from NOAA 12371: Initiation, CME-CME Interactions, and Interplanetary	Joshi, Bhuwan; Ibrahim, M. Syed; A. Shanmugaraju. ; Chakrabarty, D.	Physics	Solar Physics	2018 (July)	0038-0938	https://doi.org/10.1007/s11207-018-1325-2

	Consequences						
91	Effect of different solvents on the key structural, optical and electronic properties of sol-gel dip coated AZO nanostructured thin films for optoelectronic applications	K. Deva Arun Kumar , V. Ganesh, Mohd. Shkir,S. AlFaify, S. Valanarasu	Physics	Journal of Materials Science: Materials in Electronics	2018 (Jan)	0957-4522	https://doi.org/10.1007/s10854-017-7985-0
92	Effect of Gd ³⁺ doping on key structural, morphological, optical, and electrical properties of CdO thin films fabricated by spray pyrolysis using perfume atomizer	M. Ravikumar, R. Chandramohan, K. Deva Arun Kumar, S. Valanarasu ,A. Kathalingam,V. Ganesh, Mohd Shkir ,S. AlFaify	Physics	Journal of Sol-Gel Science and Technology	2018 (Jan)	15734846, 09280707	https://doi.org/10.1007/s10971-017-4528-3
93	Rare earth Sm ³⁺ co-doped AZO thin films for opto-electronic application prepared by spray pyrolysis	V. Anand, A. Sakthivelu, K. Deva Arun Kumar, S. Valanarasu , A. Kathalingam, V. Ganesh, Mohd Shkir, S. AlFaify, I.S. Yahia	Physics	Ceramics International	2018 (Jan)	2728842	https://doi.org/10.1016/j.ceramint.2018.01.088

94	An effect of temperature on structural, optical, photoluminescence and electrical properties of copper oxide thin films deposited by nebulizer spray pyrolysis technique	R. David Prabu , S. Valanarasu , V. Ganesh , Mohd Shkir , S. AlFaify , A. Kathalingam , S.R. Srikumar , R. Chandramohan	Physics	Materials Science in Semiconduct or Processing	2018 (Jan)	1369-8001	https://doi.org/10.1016/j.mssp.2017.10.023
95	Investigation of molar concentration effect on structural, optical, electrical, and photovoltaic properties of spray-coated Cu ₂ O thin films	R. David Prabu, S. Valanarasu , V. Ganesh, Mohd Shkir, S. AlFaify, A. Kathalingam	Physics	Surface and Interface Analysis	2018 (Jan)	1096-9918	https://doi.org/10.1002/sia.6374
96	Effect of Precursors on Key Opto-electrical Properties of Successive Ion Layer Adsorption and Reaction-Prepared Al:ZnO Thin Films	K. Deva Arun Kumar , S. Valanarasu , V. Ganesh, Mohd Shkir, A. Kathalingam, S. AlFaify	Physics	Journal of Electronic Materials	2018 (Feb)	3615235	https://doi.org/10.1007/s11664-017-5920-z
97	Evaluation of the physical, optical, and electrical properties of SnO ₂ : F thin films prepared by nebulized spray pyrolysis for optoelectronics	K. Deva Arun Kumar , S. Valanarasu , K. Jeyadheepan, Hyun-Seok Kim, Dhanasekaran Vikraman	Physics	Journal of Materials Science: Materials in Electronics	2018 (March)	0957-4522	https://doi.org/10.1007/s10854-017-8295-2

98	Cu:ZnS and Al:ZnS thin films prepared on FTO substrate by nebulized spray pyrolysis technique	C. Sabitha, K. Deva Arun Kumar , S. Valanarasu , A. Saranya, I. Hubert Joe	Physics	Journal of Materials Science: Materials in Electronics	2018 (March)	0957-4522	https://doi.org/10.1007/s10854-017-8412-2
99	Investigation of structural, optical and electrical properties of ZnS thin films prepared by nebulized spray pyrolysis for solar cell applications	C. Sabitha, I. Hubert Joe, K. Deva Arun Kumar, S. Valanarasu	Physics	Optical and Quantum Electronics	2018 (March)	0306-8919	https://doi.org/10.1007/s11082-018-1418-z
100	Influence of tin precursor concentration on physical properties of nebulized spray deposited tin disulfide thin films	N. Anitha, M. Anitha, J. Raj Mohamed, S. Valanarasu & L. Amalraj	Physics	Journal of Asian Ceramic Societies	2018 (March)	2187-0764	https://doi.org/10.1080/21870764.2018.1450026
101	Evaluation of the structural, optical and electrical properties of AZO thin films prepared by chemical bath deposition for optoelectronics	K. Deva Arun Kumar, S. Valanarasu , S. Rex Rosario , V. Ganesh, Mohd. Shkir, C.J. Sreelatha, S. AlFaify	Physics	Solid State Science	2018 (April)	12932558	https://doi.org/10.1016/j.solidstatesciences.2018.02.003
102	Effect of potential voltages on key functional	Karuppiah Deva Arun Kumar ,	Physics	Journal of Materials	2018 (April)	0884-2914	https://doi.org/10.1557/jmr.2018.122

	properties of transparent AZO thin films prepared by electrochemical deposition method for optoelectronic applications	Santiyagu Valanarasu, Vanga Ganesh, Mohd. Shkir, Salem AlFaify, and Hamed Algarni		Research			
103	Fabrication of Eu doped CdO [Al/Eu-nCdO/p-Si/Al] photodiodes by perfume atomizer based spray technique for opto-electronic applications	M. Ravikumar , V. Ganesh , Mohd Shkir , R. Chandramohan , K. Deva Arun Kumar , S. Valanarasu , A. Kathalingam , S. AlFaify	Physics	Journal of Molecular Structure	2018 (May)	0022-2860	https://doi.org/10.1016/j.molstruc.2018.01.095
104	Nd ³⁺ Doping effect on the optical and electrical properties of SnO ₂ thin films prepared by nebulizer spray pyrolysis for opto-electronic application	K. Deva Arun Kumar, S. Valanarasu , A. Kathalingam, K. Jeyadheepan	Physics	Materials Research Bulletin	2018 (May)	0025-5408	https://doi.org/10.1016/j.materresbull.2018.01.050
105	Rare earth Eu ³⁺ co-doped AZO thin films prepared by nebulizer spray pyrolysis technique for optoelectronics	V. Anand, A. Sakthivelu, K. Deva Arun Kumar, S. Valanarasu , V. Ganesh, Mohd Shkir , S. AlFaify, H.	Physics	Journal of Sol-Gel Science and Technology	2018 (May)	15734846, 09280707	https://doi.org/10.1007/s10971-018-4646-6

		Algarni					
106	Effect of solvent on the key properties of Al doped ZnO films prepared by nebulized spray pyrolysis technique	K.Deva Arun Kumar, V. Ganesh, S. Valanarasu, Mohd. Shkir, I. Kulandaisamy, A. Kathalingam, S. AlFaify	Physics	Materials Chemistry and Physics	2018 (June)	0254-0584	https://doi.org/10.1016/j.matchemphys.2018.03.035
107	Effect of Pr ³⁺ doping on key properties of CdO thin films deposited by spray pyrolysis using perfume atomizer	M. Ravikumar, R. Chandramohan, K. Deva Arun Kumar, S. Valanarasu, A. Kathalingam, V. Ganesh, Mohd. Shkir, S. AlFaify, H. Algarni	Physics	Journal of Physics and Chemistry of Solids	2018 (July)	0022-3697	https://doi.org/10.1016/j.jpics.2018.03.009
108	Effect of Neodymium doping on the structural, morphological, optical and Journal electrical properties of copper oxide thin films	R. David Prabu, S. Valanarasu, H. A. Herisalin Geno, A. Jegatha Christy, K. Jeyadheepan, A. Kathalingam	Physics	Journal of Materials Science: Materials in Electronics	2018 (July)	0957-4522	https://doi.org/10.1007/s10854-018-9170-5
109	Influence of substrate temperature on the physical properties of SnS ₂	N. Anitha, M. Anitha, J. Raj Mohamed, S. Valanarasu,	Physics	Journal of Materials Science:	2018 (July)	0957-4522	https://doi.org/10.1007/s10854-018-9248-0

	thin films prepared using nebulized spray pyrolysis technique	L. Amalraj		Materials in Electronics			
110	Influence of carrier gas pressure on nebulizer spray deposited tin disulfide thin films	A. M. S. Arulanantham, S. Valanarasu, A. Kathalingam, K. Jeyadheepan	Physics	Journal of Materials Science: Materials in Electronics	2018 (July)	0957-4522	https://doi.org/10.1007/s10854-018-9223-9
111	Effect of deposition temperature on key optoelectronic properties of electrodeposited cuprous oxide thin films	C. Ravichandiran, A. Sakthivelu, R. Davidprabu, S. Valanarasu, A. Kathalingam, V. Ganesh, Mohd Shkir, C. J. Sreelatha, S. AlFaify	Physics	Optical and Quantum Electronics	2018 (July)	0306-8919	https://doi.org/10.1007/s11082-018-1531-z
112	Fabrication of antimony doped tin disulfide thin films by an inexpensive, modified spray pyrolysis technique using nebulizer	N. Anitha, M. Anitha, K. Saravanakumar, S. Valanarasu, L. Amalraj	Physics	Journal of Physics and Chemistry of Solids	2018 (Aug)	0022-3697	https://doi.org/10.1016/j.jpcs.2018.03.028
113	Effect of spray pressure on optical, electrical and solar cell efficiency of novel Cu ₂ O thin films	R. David Prabu, S. Valanarasu, V. Ganesh, Mohd. Shkir, A.	Physics	Surface and Coatings Technology	2018 (Aug)	2578972	https://doi.org/10.1016/j.surfcoat.2018.04.084

		Kathalingam, S. AlFaify					
114	Solution volume effect on structural, optical and photovoltaic properties of nebulizer spray deposited SnS thin films	A. M. S. Arulanantham, S. Valanarasu , A. Kathalingam, K. Jeyadheepan	Physics	Journal of Materials Science: Materials in Electronics	2018 (Aug)	0957-4522	https://doi.org/10.1007/s10854-018-9409-1
115	Transition metal (Mn) and rare earth (Nd) di-doped novel ZnO nanoparticles: a facile sol-gel synthesis and characterization	A. Albert manoharan, R. Chandramohan, K. Deva Arun Kumar, S. Valanarasu , V. Ganesh, Mohd. Shkir, H. Algarni, S. AlFaify	Physics	Journal of Materials Science: Materials in Electronics	2018 (Aug)	0957-4522	https://doi.org/10.1007/s10854-018-9430-4
116	The consequence of immersion time in chemical bath deposition on the properties of CuO thin films	V. Ramya, K. Neyvasagam, R. Chandramohan, R. Mohan, S. Valanarasu & A. Milton Franklin Benial	Physics	Journal of Surface Engineering	2018 (Oct)	2670844	https://doi.org/10.1080/02670844.2018.1528690
117	Influence of substrate temperature on the SnS absorber thin films and SnS/CdS heterostructure	A. M. S. Arulanantham, S. Valanarasu , A. Kathalingam, Mohd.	Physics	Materials Research Express	2018 (Oct)	2053-1591	https://doi.org/10.1088/2053-1591/aaed1b

	prepared through aerosol assisted nebulizer spray pyrolysis	Shkir , Hyun-Seok Kim					
118	Improving the conductivity of cuprous oxide thin film by doping Calcium via feasible nebulizer spray technique for solar cell (FTO/ZnO/Ca-Cu ₂ O)	S. Santhosh Kumar Jacob , I. Kulandaisamy , S. Valanarasu , A. M.S. Arulanantham , Mohd. Shkir, A. Kathalingam , N. Soundaram	Physics	Materials Research Express	2018 (Oct)	2053-1591	https://doi.org/10.1088/2053-1591/aafb18
119	Effects of Al composition on the secondary phase formation and thermoelectric properties of Zn _{1-x} Al _x O nanocrystals	T.M.V. Murugu Thiruvalluvan , V. Natarajan , V. Manimuthu , S. Valanarasu , P. Anandan , M. Arivanandhan	Physics	Journal of Physics and Chemistry of Solids	2018 (Nov)	0022-3697	https://doi.org/10.1016/j.jpcs.2018.06.026
120	Facile synthesis and characterization of undoped, Mn doped and Nd co-doped CuO nanoparticles for optoelectronic and magnetic applications	A. Albert manoharan, R. Chandramohan, R. David prabu, S. Valanarasu , V. Ganesh, Mohd Shkir, A. Kathalingam, S. AlFaify	Physics	Journal of Molecular Structure	2018 (Nov)	0022-2860	https://doi.org/10.1016/j.molstruc.2018.06.018

121	Novel rare earth Gd and Al co-doped ZnO thin films prepared by nebulizer spray method for optoelectronic applications	V. Anand, A. Sakthivelu, K. Deva Arun Kumar, S. Valanarasu , V. Ganesh, Mohd. Shkir, A. Kathalingam, S. AlFaify	Physics	Superlattices and Microstructures	2018 (Nov)	1096367 7, 0749603 6	https://doi.org/10.1016/j.spmi.2018.09.014
122	Effect of thermal annealing on nebulizer spray deposited tin sulfide thin films and their application in a transparent oxide/CdS/SnS heterostructure	A.M.S. Arulanantham, S. Valanarasu , K. Jeyadheepan, A. Kathalingam	Physics	Thin Solid Films	2018 (Nov)	0040-6090	https://doi.org/10.1016/j.tsf.2018.09.014
123	An investigation on SnS layers for solar cells fabrication with CdS, SnS ₂ and ZnO window layers prepared by nebulizer spray method	A. M. S. Arulanantham, S. Valanarasu , A. Kathalingam, Mohd. Shkir, Hyun-Seok Kim	Physics	Applied Physics A	2018 (Nov)	0947-8396	https://doi.org/10.1007/s00339-018-2164-6
124	Effect of Nd doping on structural and optoelectronic properties of CdO thin films fabricated by a perfume atomizer	M. Ravikumar, R. Chandramohan, K. Deva Arun Kumar, S. Valanarasu , V. Ganesh, Mohd. Shkir, S. AlFaify, A.	Physics	Bulletin of Materials Science	2018 (Nov)	2504707	https://doi.org/10.1007/s12034-018-1688-x

	spray method	Kathalingam					
125	Analysis of Cu doping concentration on PbS thin films for the fabrication of solar cell using feasible nebulizer spray pyrolysis	S. Rex Rosario, I. Kulandaisamy , A. M. S. Arulanantham , K. Deva Arun kumar , S. Valanarasu , Mohamed S. Hamdy , K.S. Al-Namshah	Physics	Materials Research Express	2018 (Dec)	2053-1591	https://doi.org/10.1088/2053-1591/aafb9a
126	Role of multilayer antireflective coating in ZnO based dye sensitized solar cell Role of Multilayer Antireflective Coating in ZnO based Dye Sensitized Solar Cell	M.Ismail Fathima K. S. Joseph Wilson	Physics	Vacuum	2019	0042-207X .	10.1016/j.vacuum.2019.04.007
127	Properties of ternary photonic crystal consisting of dielectric/plasma/dielectric as a lattice period	M. M. Abadla Noor A Tabaza K. S. Joseph Wilson	Physics	Optik	2019	0030-4026	10.1016/j.ijleo.2019.04.027
128	Growth, solvent effect, optical and electrical properties of sodium 4-hydroxybenzenesulfonate	Md. I. Zahid A. Malarkodi K. S. Joseph Wilson	Physics	Materials Science-Poland	2019	2083-134X	10.2478/msp-2019-0019

	dihydrate						
129	Analysis of properties of metamaterial-based composite system	N. Abirami K. S. Joseph Wilson	Physics	International Journal of Modern Physics B	2019	0217-9792	10.1142/S0217979219501546
130	Phonon Polariton Dispersion in Metal-Doped Nanocomposite Superlattice System	R. Krishnamurthy V. Revathy K. S. Joseph Wilson I. S. Amiri	Physics	Journal of Optical Communications	2019	21916322	10.1515/joc-2019-0109
131	Hydrothermal synthesis and characterization of iron/copper/nickel doped lithium niobate particles toward optoelectronic applications	V. Doni Pon, K. S. Joseph Wilson	Physics	AIP Conference Proceedings	2019	0094-243X	10.1063/1.5113013
132	Antireflection coating application of zinc sulfide thin films by nebulizer spray pyrolysis technique	M. Ismail Fathima K. S. Joseph Wilson	Physics	AIP Conference Proceedings	2019	0094-243X	10.1063/1.5113166
133	Amalgamation and characterization of porous hydroxyapatite bio ceramics at two various	K. Poovendran K. S. Joseph Wilson	Physics	Materials Science in Semiconduct	2019	13698001	10.1016/j.mssp.2019.05.006

	temperatures			or Processing			
134	Phonon polariton dispersion of dielectric superlattice at various pressures in low dimensional systems	N. Abirami A. Malar Kodi K. S. Joseph Wilson	Physics	Optik - International Journal for Light and Electron Optics	2019	0030-4026	10.1016/j.ijleo.2019.163749
135	Investigation on photonic band gap of a magneto photonic crystal	N. Abirami K. S. Joseph Wilson	Physics	Optik - International Journal for Light and Electron Optics	2019	0030-4026	10.1016/j.ijleo.2019.164092
136	Distinction in the Interplanetary Characteristics of Accelerated and Decelerated CMEs/Shocks	Suresh,K.; A. Shanmugaraju. ; Moon, Y.J.	Physics	Earth, Moon and Planet	2019	0167-9295	https://doi.org/10.1007/s11038-018-9522-4
137	Study of Interplanetary CMEs/Shocks During Solar Cycle 24 Using Drag-Based Model: The Role of Solar Wind	Suresh, K.; Prasanna Subramanian, S.; A. Shanmugaraju. ; Vršnak, Bojan; Umaphathy, S.	Physics	Solar Physics	2019	0038-0938	https://doi.org/10.1007/s11207-019-1432-8

138	A study on radio-loud interacting/non-interacting CMEs-associated SEPs and solar flares	Pappa Kalaivani, P.; Prakash, O.; Feng, Li; A. Shanmugaraju. ; Ding , Liu-Guan; Lu, Lei; Gan, Weiqun	Physics	Advances in Space Research	2019	0273-1177	https://doi.org/10.1016/j.asr.2019.01.019
139	Influence of rare earth material (Sm ³⁺) doping on the properties of electrodeposited Cu ₂ O films for optoelectronics	C. Ravichandiran,A. Sakthivelu, K. Deva Arun Kumar , R. Davidprabu, S. Valanarasu , A. Kathalingam, V. Ganesh,Mohd Shkir, H. Algarni, S. AlFaify	Physics	Journal of Materials Science:Materials in Electronics	2019 (Feb)	0957-4522	https://doi.org/10.1007/s10854-018-0527-6
140	Fabrication and characterization of lead sulfide (PbS) thin film based heterostructure (FTO/CdS/PbS/Ag) solar cell by nebulizer spray method	S. Rex Rosario, I. Kulandaisamy , A. M. S. Arulanantham , Deva Arun Kumar , S. Valanarasu , Mohd. Shkir , A. Kathalingam , S. AlFaify	Physics	Materials Research Express	2019 (Feb)	2053-1591	https://doi.org/10.1088/2053-1591/ab0593
141	Effect of rare earth Pr doping on core characteristics of	C. Ravichandiran, A. Sakthivelu, R. Davidprabu, K. Deva	Physics	Journal of Sol-Gel Science and	2019 (March)	15734846, 0928070	https://doi.org/10.1007/s10971-019-04934-3

	electrodeposited nanocrystalline Cu ₂ O films: a film for optoelectronic technology	Arun Kumar, S. Valanarasu , A. Kathalingam, V. Ganesh, Mohd Shkir, H. Algarni, S. AlFaify		Technology		7	
142	Optimizing the annealing temperature of pure ZnTe for solar cell applications	CSA RAJ	Physics	International Journal for research and analytical reviews	2019 (March)	(E-ISSN 2348-1269, P-ISSN 2349-5138)	http://www.ijrar.org/IJRAR19J3935.pdf
143	Sn Doping Effect on the Structural, Optical and Electrical Properties of Cu ₂ O Thin Film Prepared by Nebulizer Spray Technique	S. Santhosh Kumar Jacob and I. Kulandaisamy	Physics	International Journal of Scientific Research and Reviews	2019 (March)	2279-0543	http://www.ijssr.org/pdf/2219.pdf
144	In-depth study on structural, optical, photoluminescence and electrical properties of electrodeposited Cu ₂ O thin films for optoelectronics: An effect of solution pH	C. Ravichandiran , A. Sakthivelu , R. Davidprabu , S. Valanarasu , A. Kathalingam , V. Ganesh, Mohd. Shkir, H. Algarni, S. AlFaify	Physics	Microelectronic Engineering	2019 (March)	1873-5568	https://doi.org/10.1016/j.mee.2019.03.013

145	Physical properties evaluation of nebulized spray pyrolysis prepared Nd doped ZnO thin films for opto-electronic applications	A. Rohini Devi, A. Jegatha Christy, Deva Arun Kumar, S. Valanarasu , Mohamed S. Hamdy, K. S. Al-Namshah, Abdullah M. Alhanas h, Dhanasekaran Vikra man, Hyun-Seok Kim	Physics	Journal of Materials Science: Materials in Electronics	2019 (April)	0957-4522	https://doi.org/10.1007/s10854-019-01039-z
146	Investigations on Fe doped SnS thin films by nebulizer spray pyrolysis technique for solar cell applications	S. Sebastian,I. Kulandaisamy, S. Valanarasu , N. Soundaram, K. Paulraj, Dhanasekaran Vikra man, Hyun-Seok Kim	Physics	Journal of Materials Science: Materials in Electronics	2019 (April)	0957-4522	https://doi.org/10.1007/s10854-019-01124-3
147	Influence of Al doping concentration on the opto-electronic chattels of SnS thin films readied by NSP	S. Sebastian, I. Kulandaisamy , Arulanantham, S. Valanarasu , A. Kathalingam, A. Jesu Jebathew, Mohd. Shkir,	Physics	Optical and Quantum Electronics	2019 (April)	0306-8919	https://doi.org/10.1007/s11082-019-1812-1

		M. Karunakaran					
148	Preparation and Characterization of Sol-Gel Dip Coated Al: ZnO (AZO) Thin Film for Opto-Electronic, Application	K. Deva Arun Kumara, S. Valanarasu , and S. Rex Rosario	Physics	Semiconductors	2019 (April)	16744926	https://doi.org/10.1134/S1063782619040286
149	Preparation of Eu-Doped Cu ₂ O Thin Films Using Different Concentrations by SILAR and Their Heterojunction Property with ZnO	N. Soundaram, R. Chandramohan, R. David Prabu, S. Valanarasu , K. Jeyadheepan, A. Kathalingam, Mohamed S. Hamdy, Abdullah M. Alhanash, And K.S. Al-Namshah	Physics	Journal of Electronic Materials	2019 (April)	3615235	https://doi.org/10.1007/s11664-019-07174-x
150	Enhanced optoelectronic properties of Mg doped Cu ₂ O thin films prepared by nebulizer pyrolysis technique	S. Santhosh Kumar Jacob , I. Kulandaisamy , S. Valanarasu , A. M. S. Arulanantham, V. Ganesh, S. AlFaify,	Physics	Journal of Materials Science: Materials in Electronics	2019 (June)	0022-2461	https://doi.org/10.1007/s10854-019-01397-8

		A. Kathalingam					
151	Effect of carrier gas pressure on structural, optical and photovoltaic properties of tin sulphide thin films prepared by nebulizer spray pyrolysis method	A.M.S. Arulanantham, S. Valanarasu , K. Jeyadheepan, A. Kathalingam	Physics	Bulletin of Materials Science	2019 (June)	2504707	https://doi.org/10.1007/s12034-019-1772-x
152	Nebulizer spray assisted chemical vapour deposited (NACVD) tin disulfide (SnS ₂) thin films for solar cell window layer applications	A. M. S. Arulanantham , S. Valanarasu , S. Rex Rosario , A. Kathalingam , Mohd. Shkir , V. Ganesh, I. S. Yahia	Physics	Materials Research Express	2019 (July)	2053-1591	https://doi.org/10.1088/2053-1591/ab2f2b
153	Correction to: Effect of Gd ³⁺ doping on key structural, morphological, optical, and electrical properties of CdO thin films fabricated by spray pyrolysis using perfume atomizer	M. Ravikumar, R. Chandramohan, K. Deva Arun Kumar, S. Valanarasu , A. Kathalingam, V. Ganesh, Mohd Shkir, S. AlFaify	Physics	Journal of Sol-Gel Science and Technology	2019 (July)	1573484 6, 0928070 7	https://doi.org/10.1007/s10971-019-04984-7

154	Enhancement in photovoltaic properties of Nd:SnS films prepared by low-cost NSP method	S. Sebastian, I. Kulandaisamy, A. M. S. Arulanantham, S. Valanarasu, A. Kathalingam, Mohd. Shkir, Salem AlFaify	Physics	Rare Metals	2019 (July)	1001052 1	https://doi.org/10.1007/s12598-019-01295-2
155	Investigation on nebulizer spray coated Nd-doped SnS ₂ thin films for solar cell window layer application	A. M. S. Arulanantham, S. Valanarasu, S. Rex Rosario, A. Kathalingam, Mohd. Shkir, V. Ganesh, I. S. Yahia	Physics	Journal of Materials Science: Materials in Electronics	2019 (Aug)	0957-4522	https://doi.org/10.1007/s10854-019-01743-w
156	An effect of novel Nd ³⁺ doping on physical properties of nebulizer spray pyrolysis fabricated ZnS thin films for optoelectronic technology	A. Jesu Jebathew, M. Karunakaran, K. Deva Arun Kumar, S. Valanarasu, V. Ganesh, Mohd. Shkir, S. AlFaify, A. Kathalingam	Physics	Physica B: Condensed Matter	2019 (Aug)	9214526	https://doi.org/10.1016/j.physb.2019.07.042
157	A noticeable effect of novel Nd ³⁺ doping on physical properties of nebulizer spray deposited AZO thin films for optoelectronic technology	A. Sakthivelu, K. Deva Arun Kumar, S. Valanarasu, Mohd. Shkir, V. Ganesh, A. Kathalingam, S. Al	Physics	Optical and Quantum Electronics	2019 (Sep)	0306-8919	https://doi.org/10.1007/s11082-019-2027-1

		Faify					
158	An effect of Gd ³⁺ doping on core properties of ZnS thin films prepared by nebulizer spray pyrolysis (NSP) method	A. Jesu Jebathew, M. Karunakaran, K. Deva Arun Kumar, S. Valanarasu , V. Ganesh, Mohd. Shkir, I.S. Yahia, H.Y. Zahran, A. Kathalingam	Physics	Physica B: Condensed Matter	2019 (Sep)	9214526	https://doi.org/10.1016/j.physb.2019.411674
159	Analysis of Pr co-doped Al:ZnO thin films using feasible nebulizer spray technique for optoelectronic technology	K. Deva Arun Kumar , R. Thomas, S. Valanarasu , V. Ganesh, Mohd. Shkir, S. AlFaify, J. Thirumalai	Physics	Applied Physics A	2019 (Sep)	0947-8396	https://doi.org/10.1007/s00339-019-2998-6
160	Investigation on structural, optical and photovoltaic properties of Barium doped cuprous oxide thin films by nebulizer spray technique	S Santhosh Kumar Jacob , I Kulandaisamy, S Valanarasu , A M S Arulanantham , V Ganesh, Mohd Shkir and I S Yahia	Physics	Materials Research Express	2019 (Oct)	2053-1591	https://doi.org/10.1088/2053-1591/ab485f

161	Investigation on nebulizer spray deposited Gd-doped PbS thin films for photo sensing applications	K. Paulraj, S. Ramaswamy, A. M. S. Arulanantham, S. Valanarasu , Mohd Shkir, V. Ganesh,,S. AlFaify, Hyun-Seok Kim, A. Kathalingam	Physics	Journal of Materials Science: Materials in Electronics	2019 (Oct)	0957-4522	https://doi.org/10.1007/s10854-019-02242-8
162	Deposition of p-type Al doped PbS thin films for heterostructure solar cell device using feasible nebulizer spray pyrolysis technique	S. Rex Rosario, I. Kulandaisamy , K. Deva Arun Kumar , A.M.S. Arulanantham , S. Valanarasu , Maha A. Youssef , Nasser S. Awwad	Physics	Physica B: Condensed Matter	2019 (Oct)	9214526	https://doi.org/10.1016/j.physb.2019.411704
163	Improving carrier transport in strontium-doped cuprous oxide thin films prepared by Nebulizer spray pyrolysis for solar cell applications	S Santhosh Kumar Jacob, I Kulandaisamy, S Valanarasu , A M S Arulanantham , V Ganesh , M Shkir and S AlFaify	Physics	Indian Journal of Physics	2019 (Oct)	0973-1458	https://doi.org/10.1007/s12648-019-01603-7

164	"Response to "Comment on An effect of novel Nd ³⁺ doping on physical properties of nebulizer spray pyrolysis fabricated ZnS thin films for optoelectronic technology	A. Jesu Jebathew, M. Karunakaran, K. Deva Arun Kumar, S. Valanarasu , V. Ganesh, Mohd. Shkir, S. AlFaify, A. Kathalingam,	Physics	Physica B: Condensed Matter	2019 (Nov)	9214526	https://doi.org/10.1016/j.physb.2019.411867
165	Microstructural and electrical properties evaluation of lead doped tin sulfide thin films	S. Sebastian, I. Kulandaisamy, S. Valanarasu , I. S. Yahia, Hyun-Seok Kim, Dhanasekaran Vikraman	Physics	Journal of Sol-Gel Science and Technology	2019 (Nov)	15734846, 09280707	https://doi.org/10.1007/s10971-019-05169-y
166	Functionalization effect of HAp with copper (Cu) having excellent dielectric applications	K. Poovendran K. S. Joseph Wilson Revathy M S K. Kaviyarasu	Physics	Surfaces and Interfaces	2020	24680230	10.1016/j.surfin.2020.100474
167	Efficiency enhancement of Silicon Solar cell using Effective Interface Face Method in Antireflective Coating layers	M. Ismail Fathima K. S. Joseph Wilson	Physics	International Journal of Modern Physics C	2020	0129-1831	10.1142/S012918312050076X
168	Relationships between Interplanetary Coronal Mass Ejection	Lawrance, M. Benedict; Moon, Y. - J.; A. Shanmugaraju .	Physics	Solar Physics	2020	0038-0938	https://doi.org/10.1007/s11207-020-01623-1

	Characteristics and Geoeffectiveness in the Declining Phase of Solar Cycles 23 and 24						
169	Statistical Characteristics on SEPs, Radio-Loud CMEs, Low Frequency Type II and Type III Radio Bursts Associated with Impulsive and Gradual Flares	Kalaivani, P. Pappa; A. Shanmugaraju. ; Prakash, O.; Kim, R. -S.	Physics	Earth, Moon and Planet	2020	0167-9295	https://doi.org/10.1007/s11038-020-09533-9
170	Effect of Er doping on the ammonia sensing properties of ZnO thin films prepared by a nebulizer spray technique	K. Deva Arun Kumar, S. Valanarasu , Joice Sophia Ponraj, Brian Jeevan Fernandes, M. Shkir, S. AlFaify, Prashantha Murahari, K. Ramesh	Physics	Journal of Physics and Chemistry of Solids	2020 (April)	0022-3697	https://doi.org/10.1016/j.jpics.2020.109513
171	Physical and electrical properties' evaluation of SnS:Cu thin films	S. Sebastian, I. Kulandaisamy, S. Valanarasu , Mohd Shkir, V. Ganesh, I. S. Yahia, Hyun-Seok Kim & Dhanasekaran	Physics	Surface Engineering	2020 (April)	2670844	https://doi.org/10.1080/02670844.2020.1754623

		Vikraman					
172	Unraveling the enhanced photocatalytic decomposition efficacy of the Al-doped ZnO nanoparticles @ graphene sheets	Natarajan Chidhambaram, S. Valanarasu , V. Ganesh, S Gopalakrishnan	Physics	Journal of Physics D Applied Physics	2020 (July)	0022-3727	https://doi.org/10.1088/1361-6463/abaa6f
173	Enhancement of photo-sensing properties of CdS thin films by changing spray solution volume	I. Loyola Poul Raj, S. Valanarasu , K. Hari Prasad, M.S. Revathy , N. Chidhambaram, V. Ganesh, H. Algarni, H. Elhosiny Ali	Physics	Sensors and Actuators A Physical	2020 (Nov)	9244247	https://doi.org/10.1016/j.sna.2020.112306
174	Enhancement of optoelectronic parameters of Nd-doped ZnO nanowires for photodetector applications	I. Loyola Poul Raj , S. Valanarasu , K. Hari Prasad , Joice Sophia Ponraj , N. Chidhambaram , V. Ganesh , H. Elhosiny Ali, Yasmin Khairy	Physics	Optical Materials	2020 (Nov)	0925-3467	https://doi.org/10.1016/j.optmat.2020.110396

175	Quantitative analysis of Ag-doped SnS thin films for solar cell applications	S. Sebastian , S. Vinoth, K. Hari Prasad, M. S. Revathy, S. Gobalakrishnan, P. K. Praseetha, V. Ganesh S, AlFaify	Physics	surface Engineering	2020 (Sep)	0947-8396	https://doi.org/10.1007/s00339-020-03959-8
176	Tailoring the properties of nebulizer spray pyrolysis coated FTO thin films through rare earth element terbium for optoelectronic applications	R. Thomas , T. Mathavan, M. A. Jothirajan , V. Ganesh, Mohd Shkir, I.S. Yahia, H.Y. Zahran, S. AlFaify	Physics	Physica B: Condensed Matter	2020	0921-4526	https://doi.org/10.1016/j.physb.2019.411916
177	An effect of lanthanum doping on physical characteristics of FTO thin films coated by nebulizer spray pyrolysis technique	R. Thomas , T. Mathavan, M. A. Jothirajan , V. Ganesh, Mohd Shkir, I.S. Yahia, H.Y. Zahran, S. AlFaify	Physics	Optical Materials	2020	0925-3467	https://doi.org/10.1016/j.optmat.2019.109518
178	Investigation of erbium co-doping on fluorine doped tin oxide via nebulizer spray pyrolysis for	R. Thomas , T. Mathavan, V. Ganesh, I.S. Yahia, H. Y. Zahran, S. AlFaify,	Physics	Optical and Quantum Electronics	2020	0306-8919	https://doi.org/10.1007/s11082-020-02376-8

	optoelectronic applications	A. Kathalingam					
179	Opto-electronic properties of cerium-doped FTO thin films prepared using Nebulizer spray technique for TCO application	R. Thomas, T. Mathavan, Mohd Shkir, S.AIFaify	Physics	Optik	2020	0030-4026	https://doi.org/10.1016/j.ijleo.2020.164769
180	Influence of yttrium doping on microstructural and optical properties of FTO thin films prepared by nebulizer spray technique	R. Thomas, T. Mathavan, Mohd Shkir, S.AIFaify, Hyun-Seok Kim, A. Kathalingam	Physics	Materials Today Communications	2020	2352-4928	https://doi.org/10.1016/j.mtcomm.2020.101087
181	Ag-doped PbS thin films by nebulizer spray pyrolysis for solar cells	S. Rex Rosario, I. Kulandaisamy¹, K. Deva Arun Kumar, K. Ramesh, Hala A. Ibrahim, Nasser S. Awwad	Physics	International Journal of Energy Research, Wiley	2020 (January)	1099-114X	https://doi.org/10.1002/er.5227
182	Fabrication of heterostructure solar cell using the optimized Sn incorporated PbS films via atomized nebulizer spray pyrolysis	Rex Rosario, S. , Kulandaisamy, I., Arulanantham, A. M. S., Arun Kumar, K. D., Awwad, N. S., Ibrahim, H. A., &	Physics	Materials Science in Semiconductor Processin	2020(April)	1369-8001	doi:10.1016/j.mssp.2020.105174

		Ramesh, K.					
183	Functionalization effect of HAp with copper (Cu) having excellent dielectric applications	K. Poovendran, K. S. Joseph Wilson , M.S.Revathy, A.Ayeshamariam, K.Kaviyarasu	Physics	Surfaces and Interfaces	2020 (June)	2468-0230	https://doi.org/10.1016/j.surfin.2020.100474
184	Analysis of reflectance of various DLARC systems in solar cells	P. Arockia Michael Mercy, K. S. Joseph Wilson , and M. Ismail Fathima	Physics	AIP Conference Proceedings	2020	1551-7616	https://doi.org/10.1063/5.0017527
185	Effect of platinum and graphite counter electrode in ZnO dye sensitized solar cell	K. R. Acchutharaman, M. Ismail Fathima, and K. S. Joseph Wilson	Physics	AIP Conference Proceedings	2020	1551-7616	https://doi.org/10.1063/5.0017540
186	Structural and optical properties on nickel oxide thin films prepared by simple nebulizer spray technique	Abirami and K. S. Joseph Wilson	Physics	AIP Conference Proceedings	2020	1551-7616	https://doi.org/10.1063/5.0017357

187	Cobalt doped ZnO films as antireflection coating application for solar cell	M. Ismail, Fathima, K. S. Joseph Wilson , and A. M. S. Arulanantham	Physics	AIP Conference Proceedings	2020	1551-7616	https://doi.org/10.1063/5.0017022
188	Analysis of optical parameters of rectangular microstrip patch antenna using different dielectric substrates	S. Allwin Rajesh, N. Abirami, and K. S. Joseph Wilson	Physics	AIP Conference Proceedings	2020	1551-7616	https://doi.org/10.1063/5.0017354
189	Novel design of Multiband Slotted and Miniaturized Microstrip Patch Antenna for X and Ku -band Applications	P. Mercy, K. S. Joseph Wilson	Physics	In Review (research square)	2021		https://doi.org/10.21203/rs.3.rs-202899/v1
190	Enhancement of optoelectronic properties of ZnO thin films by Al doping for photodetector applications	V.Doni Pon, K. S. Joseph Wilson , K.Hariprasad, V.Ganesh, H.Elhosiny Ali, H.Algarni, I.S.Yahia	Physics	Superlattices and Microstructures	2021	0749-6036	https://doi.org/10.1016/j.spmi.2020.106790
191	Incorporation and Characterization of Cobalt Ion Doped Hydroxyapatite	K. Poovendran, K. S. Joseph Wilson , K. Kathiresan	Physics	International Journal of Modern Agriculture,	2021	2305-7246	http://www.modern-journals.com/index.php/ijma/article/view/705

192	Investigation on the theory of planar photonic crystal based CZTS/CdS solar cell	M. Ismail. Fathima, K. S. Joseph Wilson	Physics	Materials Today: Proceedings	2021	2214-7853	https://doi.org/10.1016/j.matpr.2021.05.705
193	Efficiency Enhancement in Dye Sensitized Solar Cell Using 1D Photonic Crystal	M. Ismail. Fathima, K. S. Joseph Wilson	Physics	Silicon	2021 June	1876-9918	https://doi.org/10.1007/s12633-021-01171-8
194	Occurrence Rate of Radio-Loud and Halo CMEs in Solar Cycle 25: Prediction Using their Correlation with the Sunspot Number	A. Shanmugaraju , P. Pappa Kalaivani, Y.-J. Moon & O. Prakash	Physics	Solar Physics	2021	0038-0938	https://doi.org/10.1007/s11207-021-01818-0
195	Temporal and Spatial Association Between a Solar Flare, CME, and Radio Burst on 19 November 2013	A. Shanmugaraju , M. Syed Ibrahim, K. Suresh, P. Vijayalakshmi & Sajal Kumar Dhara	Physics	Solar Physics	2021	0038-0938	https://doi.org/10.1007/s11207-021-01823-3
196	Physical and electrical properties' evaluation of SnS:Cu thin films	S Sebastian, I Kulandaisamy, S Valanarasu , M Shkir, V Ganesh, IS Yahia	Physics	Surface Engineering	2021	2670844	https://doi.org/10.1080/02670844.2020.1754623
197	Enhancement in photodetection properties of Ag/CdS/Ag devices through novel rare-earth	IM Ashraf, MT Khan, K Hariprasad, S Valanarasu , T Alshahrani	Physics	Materials Letters	2021	0167-577X	https://doi.org/10.1016/j.matlet.2020.129174

	metal Tb doping						
198	Spray pressure variation effect on the properties of CdS thin films for photodetector applications	A Kathalingam, S Valanarasu , T Ahamad, SM Alshehri, HS Kim	Physics	Ceramics International	2021	0272-8842	https://doi.org/10.1016/j.ceramint.2020.11.100
199	Enhanced optoelectronic properties of Ti-doped ZnO nanorods for photodetector applications	Ramesh Ade, S. SathishKumar, S. Valanarasu , S. SaravanaKumar, S. Sasikumar, V. Ganesh, Yugandhar Bitla, H. Algarni, I. S. Yahia	Physics	Ceramics International	2021	0272-8842	https://doi.org/10.1016/j.ceramint.2021.05.112
200	Modeling and Experiments to Estimate Radon Emanation Factor in Soil – Grain Size and Moisture Effect	N Chitra, S Bala Sundar, I Inigo Valan , V Subramanian, M T Jose, B Venkatraman	Physics	Radiation Protection Dosimetry	2021	1742-3406	https://doi.org/10.1093/rpd/ncab087