

Sahaya Shajan

List of Publications by Year in Descending Order

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Version: 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

48
papers

617
citations

16
h-index

23
g-index

50
ext. papers

751
ext. citations

2.9
avg, IF

4.24
L-index

#	Paper	IF	Citations
48	Modeling and Simulation of a Dye Sensitized Solar Cell with Porous Aerogel Photoanode. <i>Journal of Electrical Engineering and Technology</i> , 2021 , 16, 509-514	1.4	2
47	Experimental and Simulation Studies of Platinum-Free Counter Electrode Material for Titania Aerogel-Based Quasi-Solid Dye-Sensitized Solar Cell. <i>IEEE Journal of Photovoltaics</i> , 2020 , 10, 1757-1761	3.7	1
46	Structural, optical, morphological and SHG studies on 8 MeV electron beam irradiated Sr(HCOO) ₂ ·2H ₂ O crystal. <i>Materials Science-Poland</i> , 2020 , 38, 236-247	0.6	
45	Three-dimensional hierarchical nanostructured porous TiO ₂ aerogel/Cobalt based metal-organic framework (MOF) composite as an electrode material for supercapattery. <i>Journal of Energy Storage</i> , 2020 , 32, 101750	7.8	14
44	Porphyrin-sensitized quasi-solid solar cells with MOF composited titania aerogel photoanodes. <i>Materials Today Energy</i> , 2020 , 18, 100511	7	4
43	Pyridyl/hydroxyphenyl versus carboxyphenyl anchoring moieties in Zn - Thienyl porphyrins for dye sensitized solar cells. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 224, 117408	4.4	5
42	Aerogels: promising nanostructured materials for energy conversion and storage applications. <i>Materials for Renewable and Sustainable Energy</i> , 2020 , 9, 1	4.7	30
41	Modeling and Optimization of the Effect of Sintering Parameters on the Hardness of Copper/Graphene Nanosheet Composites by Response Surface Methodology. <i>Metal Science and Heat Treatment</i> , 2019 , 60, 611-615	0.6	2
40	Highly interconnected porous TiO ₂ -Ni-MOF composite aerogel photoanodes for high power conversion efficiency in quasi-solid dye-sensitized solar cells. <i>Applied Surface Science</i> , 2019 , 496, 143646	6.7	33
39	Study of Processing and Microstructure of Copper Composite Reinforced with Graphene Nanosheet by Powder Metallurgy Technique. <i>Powder Metallurgy and Metal Ceramics</i> , 2018 , 56, 523-534	0.8	6
38	Polymer-supported catalyst for effective degradation of organic dyes: 100% recovery of catalyst stability and reusability. <i>Polymer Bulletin</i> , 2018 , 75, 1867-1893	2.4	4
37	Electrical, electrochemical, and cycling studies of high-power layered Li(Li _{0.05} Ni _{0.7} □ Mn _{0.25} Co _x)O ₂ (x = 0, 0.1, 0.3, 0.5, and 0.7) cathode materials for rechargeable lithium ion batteries. <i>Ionics</i> , 2018 , 24, 1007-1017	2.7	3
36	Effect of Reaction Period on Stoichiometry, Phase Purity, and Morphology of Hydrothermally Synthesized Cu ₂ NiSnS ₄ Nanopowder. <i>Journal of Electronic Materials</i> , 2018 , 47, 312-322	1.9	5
35	Doping effect of urea on growth, spectral, thermal, mechanical, electrical, nonlinear and optical studies of Sr(HCOO) ₂ ·2H ₂ O crystal: enhanced third-order NLO properties with a high laser-induced damage threshold. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 12513-12525	2.1	
34	Graphene nanosheet as reinforcement agent in copper matrix composite by using powder metallurgy method. <i>Surfaces and Interfaces</i> , 2017 , 6, 190-196	4.1	25
33	Facile synthesis of 3-D nanostructured zinc oxide aerogel and its application as photoanode material for dye-sensitized solar cells. <i>Surfaces and Interfaces</i> , 2017 , 7, 14-19	4.1	3
32	Low-cost hydrothermal synthesis and characterization of pentanary Cu ₂ Zn _x Ni _{1-x} SnS ₄ nanoparticle inks for thin film solar cell applications. <i>Materials Science in Semiconductor Processing</i> , 2017 , 63, 127-136	4.3	17

31	Microwave assisted synthesis of high surface area TiO ₂ aerogels: A competent photoanode material for quasi-solid dye-sensitized solar cells. <i>Materials Chemistry and Physics</i> , 2017 , 196, 37-44	4.4	30
30	TiO ₂ aerogel/Cu-BTC metal-organic framework composites for enhanced photon absorption. <i>Materials Letters</i> , 2017 , 197, 236-240	3.3	27
29	Growth by free evaporation method and physico - chemical properties of calcium succinate single crystals. <i>Optik</i> , 2017 , 145, 418-427	2.5	
28	Plasma treated TiO ₂ aerogel nanostructures as photoanode material and its influence on the performance of quasi-solid dye-sensitized solar cells. <i>Materials Research Bulletin</i> , 2017 , 86, 201-208	5.1	17
27	Photocatalytic Degradation of Congo Red and Crystal Violet Dyes on Cellulose/ PVC/ZnO Composites under UV Light Irradiation. <i>Materials Today: Proceedings</i> , 2016 , 3, 2035-2041	1.4	15
26	Fabrication and characterization of chitosan templated CdO/NiO nano composite for dye degradation. <i>Optik</i> , 2016 , 127, 8287-8293	2.5	28
25	Growth, optical, thermal, mechanical and electrical properties of anhydrous sodium formate single crystals. <i>Current Applied Physics</i> , 2016 , 16, 1030-1039	2.6	7
24	Growth and characterization of strontium formate dihydrate (Sr(HCOO) ₂ ·2H ₂ O) single crystals doped strongly with glycine. <i>Optik</i> , 2016 , 127, 4320-4323	2.5	1
23	Optical, spectral and dielectric studies of l-histidine added potassium hydrogen phthalate crystals. <i>Optik</i> , 2016 , 127, 3292-3298	2.5	2
22	Ionic liquid incorporated nanocomposite polymer electrolytes for rechargeable lithium ion battery: A way to achieve improved electrochemical and interfacial properties. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 40, 168-176	6.3	24
21	Electrochemical and cycling performances of novel nonafluorobutanesulfonate (nonaflate) ionic liquid based ternary gel polymer electrolyte membranes for rechargeable lithium ion batteries. <i>Journal of Membrane Science</i> , 2016 , 514, 350-357	9.6	70
20	Optical studies of potassium acid phthalate single crystals added with amino acids. <i>Optik</i> , 2016 , 127, 5935-5941	2.5	
19	Effect of glycine addition on the structural, thermal, optical, mechanical and electrical properties of Sr (HCOO) ₂ ·2H ₂ O crystals. <i>Journal of Crystal Growth</i> , 2015 , 428, 46-53	1.6	6
18	Surface modification of titania aerogel films by oxygen plasma treatment for enhanced dye adsorption. <i>Thin Solid Films</i> , 2015 , 595, 164-170	2.2	30
17	Effect of substrate on electroplated copper sulphide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 5338-5344	2.1	20
16	Effect of X-ray Irradiation on Dielectric Properties of Polymer Electrolytes Complexed with LiCF ₃ SO ₃ . <i>Journal of New Materials for Electrochemical Systems</i> , 2014 , 17, 139-145	2.8	5
15	Investigations on the Effect of Chitin Nanofiber in PMMA Based Solid Polymer Electrolyte Systems. <i>Journal of New Materials for Electrochemical Systems</i> , 2014 , 17, 147-152	2.8	2
14	Effect of succinonitrile and nano-hydroxyapatite on ionic conductivity and interfacial stability of polyether-based plasticized nanocomposite polymer electrolytes (PNCSPPE). <i>Polymer Bulletin</i> , 2013 , 70, 2531-2545	2.4	10

13	Combined effect of nanochitosan and succinonitrile on structural, mechanical, thermal, and electrochemical properties of plasticized nanocomposite polymer electrolytes (PNCPE) for lithium batteries. <i>Ionics</i> , 2013 , 19, 747-755	2.7	18
12	Investigation of solution pH effect on electrochemical, microstructural, optical and photoelectrochemical properties of CdSe thin films. <i>Solid State Sciences</i> , 2013 , 15, 142-151	3.4	10
11	Effect of nanochitosan and succinonitrile on the AC ionic conductivity of plasticized nanocomposite solid polymer electrolytes (PNC SPE) 2013 ,		5
10	Effect of Electron Beam Irradiation on the Mechanical and Electrochemical Properties of Plasticized Polymer Electrolytes Dispersed with Nanoparticles. <i>Advanced Materials Research</i> , 2013 , 678, 229-233	0.5	1
9	Characterization of Nanochitosan Incorporated Solid Polymer Composite Electrolytes for Magnesium Batteries. <i>Advanced Materials Research</i> , 2013 , 678, 316-320	0.5	
8	Effect of nanochitosan on electrochemical, interfacial and thermal properties of composite solid polymer electrolytes. <i>Ionics</i> , 2012 , 18, 737-745	2.7	32
7	X-ray line broadening and photoelectrochemical studies on CdSe thin films. <i>Journal of Materials Science</i> , 2011 , 46, 4034-4045	4.3	14
6	Electrical conductivity studies on pure and copper added strontium tartrate trihydrate crystals. <i>Materials Letters</i> , 2006 , 60, 1338-1340	3.3	9
5	FT-IR spectroscopic and thermal studies on pure and impurity added calcium tartrate tetrahydrate crystals. <i>Crystal Research and Technology</i> , 2005 , 40, 598-602	1.3	34
4	Lattice variation and thermal parameters of pure and impurity-added calcium tartrate tetrahydrate crystals. <i>Journal of Materials Science</i> , 2004 , 39, 4627-4629	4.3	7
3	On the growth of calcium tartrate tetrahydrate single crystals. <i>Bulletin of Materials Science</i> , 2004 , 27, 327-331	1.7	24
2	Thomas-Fermi Dielectric Screening in Some Binary Semiconductors. <i>Crystal Research and Technology</i> , 1992 , 27, 253-257	1.3	1
1	Lattice Variation and Stability of NaCl?KCl Mixed Crystals Grown from Aqueous Solutions. <i>Crystal Research and Technology</i> , 1992 , 27, K79-K82	1.3	13