

Kathalingam Adaikalam

List of Publications by Year in Descending Order

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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.

181
papers

2,887
citations

27
h-index

40
g-index

188
ext. papers

3,751
ext. citations

4
avg, IF

5.83
L-index

#	Paper	IF	Citations
181	Decoration of X2C nanoparticles on CdS nanostructures for highly efficient photocatalytic wastewater treatment under visible light. <i>Applied Surface Science</i> , 2022 , 583, 152533	6.7	0
180	Impact of Molybdenum Dichalcogenides on the Active and Hole-Transport Layers for Perovskite Solar Cells, X-Ray Detectors, and Photodetectors.. <i>Small</i> , 2022 , e2104216	11	2
179	Ultrasonically derived WSe2 nanostructure embedded MXene hybrid composites for supercapacitors and hydrogen evolution reactions. <i>Renewable Energy</i> , 2022 , 185, 585-597	8.1	2
178	Mesoporous SnSe2-grafted N-doped carbon composites with integrated flaky structure for electrochemical sensing of carbendazim. <i>Ceramics International</i> , 2022 ,	5.1	2
177	Fullerene-free, MoTe2 atomic layer blended bulk heterojunctions for improved organic solar cell and photodetector performance. <i>Journal of Materials Research and Technology</i> , 2022 , 17, 2875-2887	5.5	1
176	Influence of morphological tuned nanostructure hybrid layers on efficient bulk heterojunction organic solar cell and X-ray detector performances. <i>Applied Surface Science</i> , 2021 , 543, 148863	6.7	7
175	Establishment of a Rapid Micropropagation System for Wall. Ex Baker: Phytochemical Analysis of Leaf Extracts and Evaluation of Biological Activities. <i>Plants</i> , 2021 , 10,	4.5	4
174	Experimental and theoretical insights to demonstrate the hydrogen evolution activity of layered platinum dichalcogenides electrocatalysts. <i>Journal of Materials Research and Technology</i> , 2021 , 12, 385-398	5.5	3
173	Influence of selenium precursors on the formation of iron selenide nanostructures (FeSe): Efficient Electro-Fenton catalysts for detoxification of harmful organic dyestuffs. <i>Chemosphere</i> , 2021 , 272, 129639	8.4	9
172	Designing the MXene/molybdenum diselenide hybrid nanostructures for high-performance symmetric supercapacitor and hydrogen evolution applications. <i>International Journal of Energy Research</i> , 2021 , 45, 18770	4.5	4
171	Theoretical evaluation and experimental investigation of layered 2H/1T-phase MoS2 and its reduced graphene-oxide hybrids for hydrogen evolution reactions. <i>Journal of Alloys and Compounds</i> , 2021 , 868, 159272	5.7	13
170	Photocatalytic degradation efficiency of ZnO, GO and PVA nanoadsorbents for crystal violet, methylene blue and trypan blue dyes. <i>Optik</i> , 2021 , 238, 166671	2.5	6
169	Physical and electrical properties Evaluation of SnS:Cu thin films. <i>Surface Engineering</i> , 2021 , 37, 137-147	2.6	2
168	Recent progress on synthetic strategies and applications of transition metal phosphides in energy storage and conversion. <i>Ceramics International</i> , 2021 , 47, 4404-4425	5.1	47
167	Spray pressure variation effect on the properties of CdS thin films for photodetector applications. <i>Ceramics International</i> , 2021 , 47, 7608-7616	5.1	7
166	MoS2@X2C (X = Mo or W) hybrids for enhanced supercapacitor and hydrogen evolution performances. <i>Chemical Engineering Journal</i> , 2021 , 421, 127843	14.7	22
165	Graphene quantum dots-wrapped vertically aligned zinc oxide nanorods arrays for photosensing application. <i>Journal of Alloys and Compounds</i> , 2021 , 853, 157025	5.7	3

164	Structural and Mechanical Characterization of Platinum Thin Films Prepared Electrochemically on ITO/Glass Substrate. <i>Metals and Materials International</i> , 2021 , 27, 1554-1564	2.4	4
163	Mixed-phase MoS ₂ decorated reduced graphene oxide hybrid composites for efficient symmetric supercapacitors. <i>International Journal of Energy Research</i> , 2021 , 45, 9193-9209	4.5	7
162	Engineering MoSe/WS Hybrids to Replace the Scarce Platinum Electrode for Hydrogen Evolution Reactions and Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 5061-5072	9.5	33
161	Hierarchical NiCo/NiO/NiCo ₂ O ₄ composite formation by solvothermal reaction as a potential electrode material for hydrogen evolutions and asymmetric supercapacitors. <i>International Journal of Energy Research</i> , 2021 , 45, 19947	4.5	6
160	Eutectoid WxC embedded WS ₂ nanosheets as a hybrid composite anode for lithium-ion batteries. <i>Ceramics International</i> , 2021 , 47, 18646-18655	5.1	4
159	Effect of ruthenium oxide on the capacitance and gas-sensing performances of cobalt oxide @nitrogen-doped graphene oxide composites. <i>International Journal of Energy Research</i> , 2021 , 45, 19547	4.5	4
158	Highly Active Mo ₂ C@WS ₂ Hybrid Electrode for Enhanced Hydrogen Evolution Reaction. <i>Catalysts</i> , 2021 , 11, 1060	4	0
157	Hierarchical MoC@CNT Hybrid Structure Formation for the Improved Lithium-Ion Battery Storage Performance. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
156	Engineering MoTe ₂ and Janus SeMoTe nanosheet structures: First-principles roadmap and practical uses in hydrogen evolution reactions and symmetric supercapacitors. <i>Nano Energy</i> , 2021 , 87, 106161	17.1	13
155	Hexagonal nanostructured cobalt oxide @ nitrogen doped multiwalled carbon nanotubes/polypyrrole composite for supercapacitor and electrochemical glucose sensor. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 205, 111840	6	6
154	Hierarchical Co ₃ O ₄ decorated nitrogen-doped graphene oxide nanosheets for energy storage and gas sensing applications. <i>Journal of Industrial and Engineering Chemistry</i> , 2021 , 101, 253-261	6.3	7
153	Praseodymium doped PbS thin films for optoelectronic applications prepared by nebulizer spray pyrolysis. <i>Applied Physics A: Materials Science and Processing</i> , 2020 , 126, 1	2.6	8
152	Nanostructured transition metal sulfide/selenide anodes for high-performance sodium-ion batteries 2020 , 437-464		7
151	Fabrication of nanostructured SnO ₂ @Co ₃ O ₄ /nitrogen doped graphene oxide composite for symmetric and asymmetric storage devices. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 4183-4193	5.5	8
150	Highly porous, hierarchical microglobules of Co ₃ O ₄ embedded N-doped carbon matrix for high performance asymmetric supercapacitors. <i>Applied Surface Science</i> , 2020 , 529, 147147	6.7	27
149	Ionic Liquid-Based Electrolytes for Energy Storage Devices: A Brief Review on Their Limits and Applications. <i>Polymers</i> , 2020 , 12,	4.5	61
148	Enhanced electrocatalytic properties in MoS ₂ /MoTe ₂ hybrid heterostructures for dye-sensitized solar cells. <i>Applied Surface Science</i> , 2020 , 504, 144401	6.7	17
147	Microstructural and electrical properties evaluation of lead doped tin sulfide thin films. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 93, 52-61	2.3	7

146	Organic nanocomposite Band-Aid for chronic wound healing: a novel honey-based nanofibrous scaffold. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 1639-1652	3.3	6
145	Engineering the novel MoSe ₂ -Mo ₂ C hybrid nanoarray electrodes for energy storage and water splitting applications. <i>Applied Catalysis B: Environmental</i> , 2020 , 264, 118531	21.8	72
144	Nonaqueous liquid electrolytes based on novel 1-ethyl-3-methylimidazolium bis (nonafluorobutane-1-sulfonyl imidate) ionic liquid for energy storage devices. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 1251-1260	5.5	16
143	Cubic nanostructure of Co ₃ O ₄ @nitrogen doped graphene oxide/polyindole composite efficient electrodes for high performance energy storage applications. <i>Journal of Materials Research and Technology</i> , 2020 , 9, 11464-11475	5.5	18
142	Impact of polypyrrole incorporation on nickel oxide@multi walled carbon nanotube composite for application in supercapacitors. <i>Polymer Testing</i> , 2020 , 89, 106727	4.5	15
141	Facile synthesis of CuO/NiO/nitrogen doped rGO by ultrasonication for high performance supercapacitors. <i>Journal of Alloys and Compounds</i> , 2020 , 847, 156411	5.7	21
140	Hybrid Design Using Carbon Nanotubes Decorated with Mo ₂ C and W ₂ C Nanoparticles for Supercapacitors and Hydrogen Evolution Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 12248-12259	8.3	37
139	One-Pot Synthesis of WC/WS Hybrid Nanostructures for Improved Hydrogen Evolution Reactions and Supercapacitors. <i>Nanomaterials</i> , 2020 , 10,	5.4	20
138	Fabrication and characterization of CuO/CdS heterostructure for optoelectronic applications. <i>Journal of Sol-Gel Science and Technology</i> , 2020 , 96, 178-187	2.3	5
137	An effect of Gd ³⁺ doping on core properties of ZnS thin films prepared by nebulizer spray pyrolysis (NSP) method. <i>Physica B: Condensed Matter</i> , 2019 , 574, 411674	2.8	15
136	Porous materials of nitrogen doped graphene oxide@SnO electrode for capable supercapacitor application. <i>Scientific Reports</i> , 2019 , 9, 12622	4.9	23
135	A noticeable effect of novel Nd ³⁺ doping on physical properties of nebulizer spray deposited AZO thin films for optoelectronic technology. <i>Optical and Quantum Electronics</i> , 2019 , 51, 1	2.4	5
134	Investigation on nebulizer spray deposited Gd-doped PbS thin films for photo sensing applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 18858-18865	2.1	2
133	Al ₂ O ₃ -incorporated proton-conducting solid polymer electrolytes for electrochemical devices: a proficient method to achieve high electrochemical performance. <i>Ionics</i> , 2019 , 25, 5117-5129	2.7	5
132	Supercapacitor performance of MnO ₂ /NiCo ₂ O ₄ @N-MWCNT hybrid nanocomposite electrodes. <i>Journal of Sol-Gel Science and Technology</i> , 2019 , 91, 154-164	2.3	11
131	Fabrication of MoSe ₂ decorated three-dimensional graphene composites structure as a highly stable electrocatalyst for improved hydrogen evolution reaction. <i>Renewable Energy</i> , 2019 , 143, 1659-1669	8.1	23
130	The effect of rare earth Nd ³⁺ -doping on physical characteristics of Cu ₂ O thin films derived by electrodeposition technique. <i>Thin Solid Films</i> , 2019 , 683, 82-89	2.2	6
129	Ni(OH)-decorated nitrogen doped MWCNT nanosheets as an efficient electrode for high performance supercapacitors. <i>Scientific Reports</i> , 2019 , 9, 6034	4.9	30

128	Controlled synthesis of SnO ₂ @NiCo ₂ O ₄ /nitrogen doped multiwalled carbon nanotube hybrids as an active electrode material for supercapacitors. <i>Journal of Alloys and Compounds</i> , 2019 , 794, 186-194	5.7	27
127	Preparation of Eu-Doped Cu ₂ O Thin Films Using Different Concentrations by SILAR and Their Heterojunction Property with ZnO. <i>Journal of Electronic Materials</i> , 2019 , 48, 4138-4147	1.9	6
126	Enhanced optoelectronic properties of Mg doped Cu ₂ O thin films prepared by nebulizer pyrolysis technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 10532-10542	2.1	4
125	Influence of Al doping concentration on the opto-electronic chattels of SnS thin films readied by NSP. <i>Optical and Quantum Electronics</i> , 2019 , 51, 1	2.4	12
124	Fabrication of MoS ₂ /WSe ₂ heterostructures as electrocatalyst for enhanced hydrogen evolution reaction. <i>Applied Surface Science</i> , 2019 , 480, 611-620	6.7	53
123	Effect of carrier gas pressure on structural, optical and photovoltaic properties of tin sulphide thin films prepared by nebulizer spray pyrolysis method. <i>Bulletin of Materials Science</i> , 2019 , 42, 1	1.7	3
122	Effect of rare earth Pr doping on core characteristics of electrodeposited nanocrystalline Cu ₂ O films: a film for optoelectronic technology. <i>Journal of Sol-Gel Science and Technology</i> , 2019 , 90, 578-588	2.3	0
121	In-depth study on structural, optical, photoluminescence and electrical properties of electrodeposited Cu ₂ O thin films for optoelectronics: An effect of solution pH. <i>Microelectronic Engineering</i> , 2019 , 210, 27-34	2.5	14
120	Fabrication and characterization of lead sulfide (PbS) thin film based heterostructure (FTO/CdS/PbS/Ag) solar cell by nebulizer spray method. <i>Materials Research Express</i> , 2019 , 6, 056416	1.7	10
119	Fabrication of manganese oxide@nitrogen doped graphene oxide/polypyrrole (MnO ₂ @NGO/PPy) hybrid composite electrodes for energy storage devices. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 4227-4238	5.5	35
118	Biopolymer phytagel-derived porous nanocarbon as efficient electrode material for high-performance symmetric solid-state supercapacitors. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 80, 258-264	6.3	12
117	Investigation on nebulizer spray coated Nd-doped SnS ₂ thin films for solar cell window layer application. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 13964-13973	2.1	7
116	Enhancement in photovoltaic properties of Nd:SnS films prepared by low-cost NSP method. <i>Rare Metals</i> , 2019 , 1	5.5	5
115	Effect of novel Nd ³⁺ doping on physical properties of nebulizer spray pyrolysis fabricated ZnS thin films for optoelectronic technology. <i>Physica B: Condensed Matter</i> , 2019 , 572, 109-116	2.8	13
114	Poly(methyl methacrylate)-derived graphene films on different substrates using rapid thermal process: a way to control the film properties through the substrate and polymer layer thickness. <i>Journal of Materials Research and Technology</i> , 2019 , 8, 3752-3763	5.5	6
113	Design of WSe ₂ /MoS ₂ Heterostructures as the Counter Electrode to Replace Pt for Dye-Sensitized Solar Cell. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 13195-13205	8.3	33
112	Nebulizer spray assisted chemical vapour deposited (NACVD) tin disulfide (SnS ₂) thin films for solar cell window layer applications. <i>Materials Research Express</i> , 2019 , 6, 096422	1.7	5
111	Fabrication of Robust Hydrogen Evolution Reaction Electrocatalyst Using AgSe by Vacuum Evaporation. <i>Nanomaterials</i> , 2019 , 9,	5.4	8

110	Synthesis of MoC and WC Nanoparticle Electrocatalysts for the Efficient Hydrogen Evolution Reaction in Alkali and Acid Electrolytes. <i>Frontiers in Chemistry</i> , 2019 , 7, 716	5	27
109	Facile and cost-effective growth of MoS ₂ on 3D porous graphene-coated Ni foam for robust and stable hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2019 , 788, 267-276	5.7	19
108	Shape- and size-tunable synthesis of tin sulfide thin films for energy applications by electrodeposition. <i>Applied Surface Science</i> , 2019 , 479, 167-176	6.7	14
107	Facile method to synthesis hybrid phase 1T@2H MoSe ₂ nanostructures for rechargeable lithium ion batteries. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 833, 333-339	4.1	32
106	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). <i>Materials Research Express</i> , 2019 , 6, 046405	1.7	9
105	Nanostructured CuO/Co ₂ O ₄ @ nitrogen doped MWCNT hybrid composite electrode for high-performance supercapacitors. <i>Composites Part B: Engineering</i> , 2019 , 166, 74-85	10	63
104	One-pot facile methodology to synthesize MoS ₂ -graphene hybrid nanocomposites for supercapacitors with improved electrochemical capacitance. <i>Composites Part B: Engineering</i> , 2019 , 161, 555-563	10	61
103	Effect of Nd doping on structural and opto-electronic properties of CdO thin films fabricated by a perfume atomizer spray method. <i>Bulletin of Materials Science</i> , 2019 , 42, 1	1.7	18
102	Influence of substrate temperature on the SnS absorber thin films and SnS/CdS heterostructure prepared through aerosol assisted nebulizer spray pyrolysis. <i>Materials Research Express</i> , 2019 , 6, 026412	1.7	8
101	Influence of rare earth material (Sm ³⁺) doping on the properties of electrodeposited Cu ₂ O films for optoelectronics. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 2530-2537	2.1	3
100	Design of Basal Plane Edges in Metal-Doped Nanostripes-Structured MoSe ₂ Atomic Layers To Enhance Hydrogen Evolution Reaction Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 458-469	8.3	35
99	Electrochemical and cycling performance of neodymium (Nd ³⁺) doped LiNiPO ₄ cathode materials for high voltage lithium-ion batteries. <i>Materials Letters</i> , 2019 , 237, 224-227	3.3	15
98	Construction of dye-sensitized solar cells using wet chemical route synthesized MoSe ₂ counter electrode. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 69, 379-386	6.3	14
97	Studies on structural, optical, electrical and morphological properties of LiCoO ₂ thin films prepared by sol-gel method. <i>Materials Research Innovations</i> , 2019 , 23, 216-221	1.9	7
96	Effect of Pr ³⁺ doping on key properties of CdO thin films deposited by spray pyrolysis using perfume atomizer. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 118, 211-220	3.9	11
95	Investigation of molar concentration effect on structural, optical, electrical, and photovoltaic properties of spray-coated Cu ₂ O thin films. <i>Surface and Interface Analysis</i> , 2018 , 50, 346-353	1.5	17
94	Nd ³⁺ Doping effect on the optical and electrical properties of SnO ₂ thin films prepared by nebulizer spray pyrolysis for opto-electronic application. <i>Materials Research Bulletin</i> , 2018 , 101, 264-271	5.1	32
93	Maskless patterned growth of ZnO nanorod arrays using tip based electrolithography. <i>Materials Science in Semiconductor Processing</i> , 2018 , 77, 24-30	4.3	3

92	Fabrication of Eu doped CdO [Al/Eu-nCdO/p-Si/Al] photodiodes by perfume atomizer based spray technique for opto-electronic applications. <i>Journal of Molecular Structure</i> , 2018 , 1160, 311-318	3.4	22
91	Facile and cost-effective methodology to fabricate MoS ₂ counter electrode for efficient dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2018 , 151, 7-14	4.6	35
90	Rare earth Sm ³⁺ co-doped AZO thin films for opto-electronic application prepared by spray pyrolysis. <i>Ceramics International</i> , 2018 , 44, 6730-6738	5.1	30
89	Effect of dimethyl carbonate (DMC) on the electrochemical and cycling properties of solid polymer electrolytes (PVP-MSA) and its application for proton batteries. <i>Solid State Ionics</i> , 2018 , 321, 106-114	3.3	13
88	Effect of spray pressure on optical, electrical and solar cell efficiency of novel Cu ₂ O thin films. <i>Surface and Coatings Technology</i> , 2018 , 347, 164-172	4.4	24
87	Effect of Neodymium doping on the structural, morphological, optical and electrical properties of copper oxide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 10921-10932	2.1	10
86	Effect of solvent on the key properties of Al doped ZnO films prepared by nebulized spray pyrolysis technique. <i>Materials Chemistry and Physics</i> , 2018 , 212, 167-174	4.4	26
85	Fabrication of arrayed metal oxide structures by electrochemical local oxidation using metallic tip with electric field and humidity. <i>Journal of Materials Processing Technology</i> , 2018 , 252, 304-312	5.3	3
84	Effect of Gd ³⁺ doping on key structural, morphological, optical, and electrical properties of CdO thin films fabricated by spray pyrolysis using perfume atomizer. <i>Journal of Sol-Gel Science and Technology</i> , 2018 , 85, 31-40	2.3	20
83	Analysis of Sn Concentration Effect on Morphological, Optical, Electrical and Photonic Properties of Spray-Coated Sn-Doped CdO Thin Films. <i>Coatings</i> , 2018 , 8, 167	2.9	8
82	Recent Advances in Metal Chalcogenides (MX ₂ ; = ,) Nanostructures for Electrochemical Supercapacitor Applications: A Brief Review. <i>Nanomaterials</i> , 2018 , 8,	5.4	148
81	Electric Field Induced Pattern Formation on PMMA and ITO Layers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1700811	1.6	3
80	Influence of carrier gas pressure on nebulizer spray deposited tin disulfide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 11358-11366	2.1	7
79	Solution volume effect on structural, optical and photovoltaic properties of nebulizer spray deposited SnS thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 12899-12909	2.1	8
78	Improved Hydrogen Evolution Reaction Performance using MoS ₂ /WS ₂ Heterostructures by Physicochemical Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8400-8409	8.3	82
77	Facile synthesis and characterization of undoped, Mn doped and Nd ³⁺ -doped CuO nanoparticles for optoelectronic and magnetic applications. <i>Journal of Molecular Structure</i> , 2018 , 1171, 388-395	3.4	20
76	Effect of Precursors on Key Opto-electrical Properties of Successive Ion Layer Adsorption and Reaction-Prepared Al:ZnO Thin Films. <i>Journal of Electronic Materials</i> , 2018 , 47, 1335-1343	1.9	19
75	Electrochemical performances of LiNi _{1-x} MnxPO ₄ (x = 0.050.2) olivine cathode materials for high voltage rechargeable lithium ion batteries. <i>Applied Surface Science</i> , 2018 , 449, 435-444	6.7	21

74	An effect of temperature on structural, optical, photoluminescence and electrical properties of copper oxide thin films deposited by nebulizer spray pyrolysis technique. <i>Materials Science in Semiconductor Processing</i> , 2018 , 74, 129-135	4.3	39
73	Evaluation of the physical, optical, and electrical properties of SnO ₂ : F thin films prepared by nebulized spray pyrolysis for optoelectronics. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 3648-3656	2.1	34
72	Development of a WS ₂ /MoTe ₂ heterostructure as a counter electrode for the improved performance in dye-sensitized solar cells. <i>Inorganic Chemistry Frontiers</i> , 2018 , 5, 3178-3183	6.8	21
71	Hierarchical Flowerlike 3D nanostructure of CoO@MnO/N-doped Graphene oxide (NGO) hybrid composite for a high-performance supercapacitor. <i>Scientific Reports</i> , 2018 , 8, 16543	4.9	49
70	An investigation on SnS layers for solar cells fabrication with CdS, SnS ₂ and ZnO window layers prepared by nebulizer spray method. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	13
69	Fabrication of two-terminal devices using solution-synthesized Cu-doped ZnO nanorods and their photosensing properties. <i>Optical Materials Express</i> , 2018 , 8, 2832	2.6	4
68	Novel rare earth Gd and Al co-doped ZnO thin films prepared by nebulizer spray method for optoelectronic applications. <i>Superlattices and Microstructures</i> , 2018 , 123, 311-322	2.8	24
67	Effect of thermal annealing on nebulizer spray deposited tin sulfide thin films and their application in a transparent oxide/CdS/SnS heterostructure. <i>Thin Solid Films</i> , 2018 , 666, 85-93	2.2	18
66	Facile Synthesis of Molybdenum Diselenide Layers for High-Performance Hydrogen Evolution Electrocatalysts. <i>ACS Omega</i> , 2018 , 3, 5799-5807	3.9	16
65	Effect of deposition temperature on key optoelectronic properties of electrodeposited cuprous oxide thin films. <i>Optical and Quantum Electronics</i> , 2018 , 50, 1	2.4	5
64	Studies on optical and electrical properties of SILAR-deposited CuO thin films. <i>Materials Research Innovations</i> , 2017 , 21, 146-151	1.9	6
63	Studies on copper oxide thin films prepared by simple nebulizer spray technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 6754-6762	2.1	25
62	Facile fabrication of n-ZnO nanorods/p-Cu ₂ O heterojunction and its photodiode property. <i>Optical Materials</i> , 2017 , 66, 122-130	3.3	25
61	Annealing induced p-type conversion and substrate dependent effect of n-ZnO/p-Si heterostructure. <i>Materials Letters</i> , 2017 , 196, 30-32	3.3	4
60	Structural, optical, electrical and morphological properties of different concentration sol-gel ZnO seeds and consanguineous ZnO nanostructured growth dependence on seeds. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 571-582	5.7	17
59	Synthesis of MoS ₂ (1-x)Se _{2x} and WS ₂ (1-x)Se _{2x} alloys for enhanced hydrogen evolution reaction performance. <i>Inorganic Chemistry Frontiers</i> , 2017 , 4, 2068-2074	6.8	23
58	NH ₄ OH Treatment for an Optimum Morphological Trade-off to Hydrothermal Ga-Doped n-ZnO/p-Si Heterostructure Characteristics. <i>Materials</i> , 2017 , 11,	3.5	9
57	An enhanced electrochemical and cycling properties of novel boronic ionic liquid based ternary gel polymer electrolytes for rechargeable Li/LiCoO cells. <i>Scientific Reports</i> , 2017 , 7, 11103	4.9	33

56	Effect of sulfur concentration on the properties of tin disulfide thin films by nebulizer spray pyrolysis technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2017 , 28, 18675-18685	2.1	17
55	Substrate temperature dependent opto-electronic properties of perfume atomized CdO thin films. <i>Inorganic and Nano-Metal Chemistry</i> , 2017 , 47, 1495-1500	1.2	4
54	Effect of solvents on sol-gel spin-coated nanostructured Al-doped ZnO thin films: a film for key optoelectronic applications. <i>Applied Physics A: Materials Science and Processing</i> , 2017 , 123, 1	2.6	33
53	A nanocrystalline structured NiO/MnO ₂ @nitrogen-doped graphene oxide hybrid nanocomposite for high performance supercapacitors. <i>New Journal of Chemistry</i> , 2017 , 41, 15517-15527	3.6	32
52	Studies on rheological, structural, optical, electrical and surface properties of LiMn ₂ O ₄ thin films by varied spin rates. <i>Materials Science-Poland</i> , 2017 , 35, 626-631	0.6	4
51	Growth Method-Dependent and Defect Density-Oriented Structural, Optical, Conductive, and Physical Properties of Solution-Grown ZnO Nanostructures. <i>Nanomaterials</i> , 2017 , 7,	5.4	10
50	A Rapid One-Pot Synthesis of Novel High-Purity Methacrylic Phosphonic Acid (PA)-Based Polyhedral Oligomeric Silsesquioxane (POSS) Frameworks via Thiol-Ene Click Reaction. <i>Polymers</i> , 2017 , 9,	4.5	8
49	Effect of annealing temperature on the structural, morphological, optical and electrical properties of Co ₃ O ₄ thin film by nebulizer spray pyrolysis technique. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 3860-3866	2.1	15
48	Coulomb blockade and plasmonic nanoantenna effect in back gated ZnO nanorod FET. <i>Optik</i> , 2016 , 127, 5226-5229	2.5	2
47	Effect of film thickness on the solar cell performance of CBD grown CdS/PbS heterostructure. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 2574-2580	2.1	11
46	Effect of adsorption time on structural, optical and electronic properties of SILAR deposited CuO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2016 , 27, 9179-9185	2.1	6
45	Effects of fluorine doping on structural, optical and electrical properties of spray deposited CdO thin films. <i>Superlattices and Microstructures</i> , 2016 , 100, 76-88	2.8	14
44	Observation of room temperature negative differential resistance in solution synthesized ZnO nanorod. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2015 , 74, 241-243	3	4
43	Effect of bath concentration on the growth and photovoltaic response of SILAR-deposited CuO thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 120, 1105-1111	2.6	19
42	Studies on SILAR deposited Cu ₂ O and ZnO films for solar cell applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5030-5036	2.1	15
41	Effect of Trisodium Citrate Concentration on the Structural and Photodiode Performance of CdO Thin Films. <i>Journal of Electronic Materials</i> , 2015 , 44, 2800-2806	1.9	10
40	Synthesis of ZnO nanorods using different precursor solutions and their two terminal device characterization. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 5724-5734	2.1	8
39	Improved Memory Effect of ZnO Nanorods Embedded in an Insulating Polymethylmethacrylate Layer. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 1416-20	1.3	7

38	Light induced resistive switching property of solution synthesized ZnO nanorod. <i>Optical Materials</i> , 2015 , 48, 190-197	3.3	19
37	Unipolar resistive switching of solution synthesized ZnO nanorod with self-rectifying and Negative Differential Resistance effects. <i>Materials Letters</i> , 2015 , 142, 238-241	3.3	6
36	Role of immersion time on the properties of SILAR deposited CuO thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2015 , 26, 921-926	2.1	16
35	Characteristics of GaAs varactor diode with hyperabrupt doping profile. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015 , 212, 612-616	1.6	
34	Effect of indium on photovoltaic property of n-ZnO/p-Si heterojunction device prepared using solution-synthesized ZnO nanowire film. <i>Journal of Photonics for Energy</i> , 2015 , 5, 053085	1.2	8
33	Hysteresis I_V nature of mechanically exfoliated graphene FET. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 1303-1308	2.1	13
32	Effects of graphene counter electrode and CdSe quantum dots in TiO ₂ and ZnO on dye-sensitized solar cell performance. <i>International Journal of Energy Research</i> , 2014 , 38, 674-682	4.5	18
31	Facile Preparation of Nanocrystalline ZnO Powder for Non-Volatile Memory Application. <i>Materials Science Forum</i> , 2014 , 807, 151-160	0.4	
30	Bipolar resistive switching of solution processed TiO ₂ /graphene oxide nanocomposite for nonvolatile memory applications. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 2432-2435	2.3	16
29	Piezo and photoelectric coupled nanogenerator using CdSe quantum dots incorporated ZnO nanowires in ITO/ZnO NW/Si structure. <i>Materials Chemistry and Physics</i> , 2013 , 138, 262-269	4.4	13
28	Hysteretic I_V nature of ethanol adsorbed ZnO nanorods. <i>Materials Letters</i> , 2013 , 106, 122-124	3.3	4
27	Reproducible resistive switching in hydrothermal processed TiO ₂ nanorod film for non-volatile memory applications. <i>Sensors and Actuators A: Physical</i> , 2013 , 194, 135-139	3.9	11
26	High-performance memory device using graphene oxide flakes sandwiched polymethylmethacrylate layers. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 6755-9	1.3	5
25	Thermally stable memory devices using graphene flakes sandwiched polymethyl methacrylate polymer layers. <i>Electronic Materials Letters</i> , 2012 , 8, 649-653	2.9	12
24	Observation of multi-conductance state in solution processed Al/a-TiO ₂ /ITO memory device. <i>Microelectronic Engineering</i> , 2012 , 98, 97-101	2.5	9
23	Shape-dependent electrical property of solution synthesized ZnO nanorods. <i>Semiconductor Science and Technology</i> , 2012 , 27, 105006	1.8	20
22	Growth and characterization of lead selenide thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2012 , 23, 1562-1568	2.1	9
21	Characterization of electroplated ZnTe coatings. <i>Ionics</i> , 2012 , 18, 299-306	2.7	13

20	Fabrication of Bistable Switching Memory Devices Utilizing Polymer/ZnO Nanocomposites. <i>Journal of Electronic Materials</i> , 2012 , 41, 2162-2168	1.9	16
19	Fabrication and characterization of solution processed n-ZnO nanowire/p-Si heterojunction device. <i>Journal of Nanoscience and Nanotechnology</i> , 2012 , 12, 6948-54	1.3	14
18	Synthesis of multi-linked ZnO rods by microwave heating. <i>Crystal Research and Technology</i> , 2011 , 46, 517-522	1.3	17
17	Self assembled micro masking effect in the fabrication of SiC nanopillars by ICP-RIE dry etching. <i>Applied Surface Science</i> , 2011 , 257, 3850-3855	6.7	20
16	Role of Deposition Potential on the Optical Properties of SnS ₂ Thin Films. <i>ECS Transactions</i> , 2011 , 35, 1-10	1	6
15	Development of GaAs Gunn Diodes and Their Applications to Frequency Modulated Continuous Wave Radar. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 111202	1.4	4
14	Study on electrodeposited CdSe _x Te _{1-x} semiconducting thin films. <i>Journal of Alloys and Compounds</i> , 2010 , 505, 758-761	5.7	13
13	Preparation and characterization of MnSe thin films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 174, 257-262	3.1	16
12	Growth and characterization of electrosynthesized iron selenide thin films. <i>Vacuum</i> , 2009 , 83, 1066-1072	3.7	77
11	Studies on Electrochemically Deposited ZnO Thin Films. <i>Journal of the Korean Physical Society</i> , 2009 , 55, 2476-2481	0.6	20
10	Electrodeposition and characterization of HgSe thin films. <i>Materials Characterization</i> , 2007 , 58, 735-739	3.9	6
9	Optical and structural study of electrodeposited zinc selenide thin films. <i>Materials Chemistry and Physics</i> , 2007 , 106, 215-221	4.4	28
8	Studies on electrosynthesized zinc mercury selenide alloys. <i>Journal of Materials Science: Materials in Electronics</i> , 2007 , 18, 1013-1019	2.1	10
7	Electrochemical synthesis and characterization of zinc selenide thin films. <i>Journal of Materials Science</i> , 2006 , 41, 3553-3559	4.3	16
6	Characterization of electrodeposited Zn _{1-x} Hg _x Se thin films. <i>Semiconductor Science and Technology</i> , 2005 , 20, 749-754	1.8	9
5	Studies on electrosynthesized semiconducting zinc selenide thin films. <i>Ionics</i> , 2004 , 10, 297-299	2.7	4
4	Growth of Doped Potassium Perchlorate Single Crystals in Silica Gel and Their Characterization. <i>Crystal Research and Technology</i> , 1998 , 33, 177-181	1.3	1
3	Photosensing effect of indium-doped ZnO thin films and its heterostructure with silicon. <i>Journal of Asian Ceramic Societies</i> , 1-12	2.4	1

2	Ball-milling route to design hierarchical nanohybrid cobalt oxide structures with cellulose nanocrystals interface for supercapacitors. <i>International Journal of Energy Research</i> ,	4-5	2
1	MnO ₂ /Co ₃ O ₄ with N and S co-doped graphene oxide bimetallic nanocomposite for hybrid supercapacitor and photosensor applications. <i>International Journal of Energy Research</i> ,	4-5	4