Dhanasekaran Vikraman

List of Publications by Year
in descending order

206	5,335	93792 39	169272 56
papers	citations	h-index	g-index

209	209	209	6151
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biopolymer film fabrication for skin mimetic tissue regenerative wound dressing applications. International Journal of Polymeric Materials and Polymeric Biomaterials, 2022, 71, 196-207.	1.8	21
2	Thickness-dependent monochalcogenide GeSe-based CBRAM for memory and artificial electronic synapses. Nano Research, 2022, 15, 2263-2277.	5.8	19
3	Highly porous, hierarchical peanut-like Ecandrewsite binary metal oxide nanostructures for the high-efficiency detoxification of organic dyes from wastewater. Ceramics International, 2022, 48, 1057-1067.	2.3	3
4	Sheet-like morphology CuCo2O4 bimetallic nanoparticles adorned on graphene oxide composites for symmetrical energy storage applications. Journal of Alloys and Compounds, 2022, 892, 162182.	2.8	35
5	Bifunctional iron molybdate as highly effective heterogeneous electro-Fenton catalyst and Li-ion battery anode. Chemosphere, 2022, 286, 131846.	4.2	5
6	Unveiling a binary metal selenide composite of CuSe polyhedrons/CoSe2 nanorods decorated graphene oxide as an active electrode material for high-performance hybrid supercapacitors. Chemical Engineering Journal, 2022, 427, 131535.	6.6	63
7	Engineering the active sites tuned MoS2 nanoarray structures by transition metal doping for hydrogen evolution and supercapacitor applications. Journal of Alloys and Compounds, 2022, 893, 162271.	2.8	57
8	Ultrasonically derived WSe2 nanostructure embedded MXene hybrid composites for supercapacitors and hydrogen evolution reactions. Renewable Energy, 2022, 185, 585-597.	4.3	38
9	Metal organic framework-derived Ni4Mo/MoO2@C composite nanospheres as the sensing materials for hydrogen sulfide detection. Journal of Alloys and Compounds, 2022, 900, 163421.	2.8	14
10	Metal oxides-free anodes for lithium-ion batteries. , 2022, , 149-176.		0
11	A Facile Design of Solution-Phase Based VS2 Multifunctional Electrode for Green Energy Harvesting and Storage. Nanomaterials, 2022, 12, 339.	1.9	21
12	Decoration of X2C nanoparticles on CdS nanostructures for highly efficient photocatalytic wastewater treatment under visible light. Applied Surface Science, 2022, 583, 152533.	3.1	4
13	Impact of Molybdenum Dichalcogenides on the Active and Holeâ€Transport Layers for Perovskite Solar Cells, Xâ€Ray Detectors, and Photodetectors. Small, 2022, 18, e2104216.	5.2	22
14	Unveiling the Redox Electrochemistry of MOFâ€Derived fccâ€NiCo@GC Polyhedron as an Advanced Electrode Material for Boosting Specific Energy of the Supercapattery. Small, 2022, 18, e2107284.	5.2	43
15	Mesoporous SnSe2-grafted N-doped carbon composites with integrated flaky structure for electrochemical sensing of carbendazim. Ceramics International, 2022, 48, 16023-16032.	2.3	43
16	Fullerene-free, MoTe2 atomic layer blended bulk heterojunctions for improved organic solar cell and photodetector performance. Journal of Materials Research and Technology, 2022, 17, 2875-2887.	2.6	5
17	Water mediated electrochemical conversion of PMMA and other organic residues into graphene and carbon materials. Ceramics International, 2022, 48, 28906-28917.	2.3	3
18	Fabrication of InGaZnO-SnO2/PCBM hybrid electron transfer layer for high-performance Perovskite solar cell and X-ray detector. Journal of Alloys and Compounds, 2022, 906, 164399.	2.8	15

#	Article	IF	Citations
19	One-pot hydrothermal synthesis of MgV2O5-NC porous composite for hybrid supercapacitors with enhanced storage properties. Journal of Alloys and Compounds, 2022, 908, 164598.	2.8	7
20	Development of <scp>MXene</scp> / <scp> WO ₃ </scp> embedded <scp>PEDOT</scp> : <scp>PSS</scp> hole transport layers for highly efficient perovskite solar cells and Xâ€ray detectors. International Journal of Energy Research, 2022, 46, 12485-12497.	2.2	13
21	Fabrication of NiCo2S4 accumulated on metal organic framework nanostructured with multiwalled carbon nanotubes composite material for supercapacitor application. Ceramics International, 2022, 48, 29102-29110.	2.3	28
22	Investigation of the one-step electrochemical deposition of graphene oxide-doped poly(3,4-ethylenedioxythiophene)â€“polyphenol oxidase as a dopamine sensor. RSC Advances, 2022, 12, 15575-15583.	1.7	2
23	Bimetallic Cu/Fe MOF-Based Nanosheet Film via Binder-Free Drop-Casting Route: A Highly Efficient Urea-Electrolysis Catalyst. Nanomaterials, 2022, 12, 1916.	1.9	33
24	MoO3@MoS2 Core-Shell Structured Hybrid Anode Materials for Lithium-Ion Batteries. Nanomaterials, 2022, 12, 2008.	1.9	10
25	Selfâ€standing <scp>2D</scp> tinâ€sulfideâ€based heterostructured nanosheets: An efficient overall urea oxidation catalyst. International Journal of Energy Research, 2022, 46, 15143-15155.	2.2	10
26	Fabrication of High-Performance Solar Cells and X-ray Detectors Using MoX₂@CNT Nanocomposite-Tuned Perovskite Layers. ACS Applied Materials & Interfaces, 2022, 14, 33626-33640.	4.0	7
27	The effect of boron-doped carbon nanotubes blended with active layers in achieving high-efficiency polymer solar cells and X-ray detectors. Journal of Alloys and Compounds, 2022, 922, 166137.	2.8	5
28	Physical and electrical propertiesâ€™ evaluation of SnS:Cu thin films. Surface Engineering, 2021, 37, 137-147.	1.1	6
29	Templateâ€free synthesis of oneâ€dimensional cobalt sulfide nanorod array as an attractive architecture for overall water splitting. International Journal of Energy Research, 2021, 45, 2785-2796.	2.2	19
30	MoS2@X2C (XÂ=ÂMo or W) hybrids for enhanced supercapacitor and hydrogen evolution performances. Chemical Engineering Journal, 2021, 421, 127843.	6.6	49
31	ZIF-8 templated assembly of La3+-anchored ZnO distorted nano-hexagons as an efficient active photocatalyst for the detoxification of rhodamine B in water. Environmental Pollution, 2021, 272, 116018.	3.7	30
32	Graphene quantum dots-wrapped vertically aligned zinc oxide nanorods arrays for photosensing application. Journal of Alloys and Compounds, 2021, 853, 157025.	2.8	9
33	Mixedâ€phase <scp> MoS ₂ </scp> decorated reduced graphene oxide hybrid composites for efficient symmetric supercapacitors. International Journal of Energy Research, 2021, 45, 9193-9209.	2.2	28
34	Engineering MoSe₂/WS₂ Hybrids to Replace the Scarce Platinum Electrode for Hydrogen Evolution Reactions and Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 5061-5072.	4.0	69
35	NIR self-powered photodetection and gate tunable rectification behavior in 2D GeSe/MoSe2 heterojunction diode. Scientific Reports, 2021, 11, 3688.	1.6	34
36	Highly Fast Response of Pd/Ta2O5/SiC and Pd/Ta2O5/Si Schottky Diode-Based Hydrogen Sensors. Sensors, 2021, 21, 1042.	2.1	3

#	Article	IF	Citations
37	Influence of morphological tuned nanostructure hybrid layers on efficient bulk heterojunction organic solar cell and X-ray detector performances. Applied Surface Science, 2021, 543, 148863.	3.1	17
38	Experimental and theoretical insights to demonstrate the hydrogen evolution activity of layered platinum dichalcogenides electrocatalysts. Journal of Materials Research and Technology, 2021, 12, 385-398.	2.6	11
39	Ultrasonically Processed WSe2 Nanosheets Blended Bulk Heterojunction Active Layer for High-Performance Polymer Solar Cells and X-ray Detectors. Materials, 2021, 14, 3206.	1.3	9
40	Influence of selenium precursors on the formation of iron selenide nanostructures (FeSe2): Efficient Electro-Fenton catalysts for detoxification of harmful organic dyestuffs. Chemosphere, 2021, 272, 129639.	4.2	27
41	Designing the MXene/molybdenum diselenide hybrid nanostructures for highâ€performance symmetric supercapacitor and hydrogen evolution applications. International Journal of Energy Research, 2021, 45, 18770-18785.	2.2	23
42	Theoretical evaluation and experimental investigation of layered 2H/1T-phase MoS2 and its reduced graphene-oxide hybrids for hydrogen evolution reactions. Journal of Alloys and Compounds, 2021, 868, 159272.	2.8	22
43	Hierarchical <scp>NiCo</scp> / <scp>NiO</scp> / <scp> NiCo ₂ O ₄ </scp> composite formation by solvothermal reaction as a potential electrode material for hydrogen evolutions and asymmetric supercapacitors. International Journal of Energy Research, 2021, 45, 19947-19961.	2.2	33
44	Eutectoid WxC embedded WS2 nanosheets as a hybrid composite anode for lithium-ion batteries. Ceramics International, 2021, 47, 18646-18655.	2.3	12
45	Effect of ruthenium oxide on the capacitance and gasâ€sensing performances of cobalt oxide @nitrogenâ€doped graphene oxide composites. International Journal of Energy Research, 2021, 45, 19547-19559.	2.2	17
46	Elucidation of cube-like red iron oxide @ carbon nanofiber composite as an anode material for high performance lithiumâ€ion storage. Journal of Industrial and Engineering Chemistry, 2021, 104, 22-31.	2.9	5
47	Highly Active Mo2C@WS2 Hybrid Electrode for Enhanced Hydrogen Evolution Reaction. Catalysts, 2021, 11, 1060.	1.6	2
48	Hierarchical Mo2C@CNT Hybrid Structure Formation for the Improved Lithium-Ion Battery Storage Performance. Nanomaterials, 2021, 11, 2195.	1.9	6
49	MoS2@Mo2C hybrid nanostructures formation as an efficient anode material for lithium-ion batteries. Journal of Materials Research and Technology, 2021, 14, 2382-2393.	2.6	20
50	Engineering MoTe2 and Janus SeMoTe nanosheet structures: First-principles roadmap and practical uses in hydrogen evolution reactions and symmetric supercapacitors. Nano Energy, 2021, 87, 106161.	8.2	50
51	Hierarchical Co3O4 decorated nitrogen-doped graphene oxide nanosheets for energy storage and gas sensing applications. Journal of Industrial and Engineering Chemistry, 2021, 101, 253-261.	2.9	17
52	Catalytic decontamination of organic/inorganic pollutants in water and green H2 generation using nanoporous SnS2 micro-flower structured film. Journal of Hazardous Materials, 2021, 417, 126105.	6.5	48
53	Hierarchical structured nano-polyhedrons of CeO2@ZIF-8 composite for high performance supercapacitor applications. Journal of Alloys and Compounds, 2021, 875, 160074.	2.8	42
54	Self-Supportive Bimetallic Selenide Heteronanostructures as High-Efficiency Electro(pre)catalysts for Water Oxidation. ACS Sustainable Chemistry and Engineering, 2021, 9, 13114-13123.	3.2	15

#	Article	IF	Citations
55	Ternary Zn1-xNixSe nanostructures as efficient photocatalysts for detoxification of hazardous Congo red, methyl orange, and chrome yellow dyes in wastewater sources. Environmental Research, 2021, 201, 111587.	3.7	16
56	Potential core-shell anode material for rechargeable lithium-ion batteries: Encapsulation of titanium oxide nanostructure in conductive polymer. Journal of Alloys and Compounds, 2021, 882, 160715.	2.8	3
57	Porous, 3D-hierarchical Î±-NiMoO4 rectangular nanosheets for selective conductometric ethanol gas sensors. Sensors and Actuators B: Chemical, 2021, 347, 130615.	4.0	31
58	Characteristics of Mo2C-CNTs hybrid blended hole transport layer in the perovskite solar cells and X-ray detectors. Journal of Alloys and Compounds, 2021, 885, 161039.	2.8	19
59	Switchable p-n gas response for 3D-hierarchical NiFe2O4 porous microspheres for highly selective and sensitive toluene gas sensors. Journal of Alloys and Compounds, 2021, 886, 161281.	2.8	24
60	Self-standing SnS nanosheet array: a bifunctional binder-free thin film catalyst for electrochemical hydrogen generation and wastewater treatment. Dalton Transactions, 2021, 50, 12723-12729.	1.6	27
61	Deep-Ultraviolet (DUV)-Induced Doping in Single Channel Graphene for Pn-Junction. Nanomaterials, 2021, 11, 3003.	1.9	1
62	Enhanced electrocatalytic properties in MoS2/MoTe2 hybrid heterostructures for dye-sensitized solar cells. Applied Surface Science, 2020, 504, 144401.	3.1	32
63	Microstructural and electrical properties evaluation of lead doped tin sulfide thin films. Journal of Sol-Gel Science and Technology, 2020, 93, 52-61.	1.1	19
64	Engineering the novel MoSe2-Mo2C hybrid nanoarray electrodes for energy storage and water splitting applications. Applied Catalysis B: Environmental, 2020, 264, 118531.	10.8	136
65	Nonaqueous liquid electrolytes based on novel 1-ethyl-3-methylimidazolium bis (nonafluorobutane-1-sulfonyl imidate) ionic liquid for energy storage devices. Journal of Materials Research and Technology, 2020, 9, 1251-1260.	2.6	19
66	1D-CoSe₂ nanoarray: a designed structure for efficient hydrogen evolution and symmetric supercapacitor characteristics. Dalton Transactions, 2020, 49, 14191-14200.	1.6	42
67	Facile preparation of tungsten carbide nanoparticles for an efficient oxalic acid sensor via imprinting. Microchemical Journal, 2020, 159, 105404.	2.3	17
68	Thicknessâ€Dependent, Gateâ€Tunable Rectification and Highly Sensitive Photovoltaic Behavior of Heterostructured GeSe/WS₂ pâ€“n Diode. Advanced Materials Interfaces, 2020, 7, 2000893.	1.9	25
69	Hybrid Design Using Carbon Nanotubes Decorated with Mo₂C and W₂C Nanoparticles for Supercapacitors and Hydrogen Evolution Reactions. ACS Sustainable Chemistry and Engineering, 2020, 8, 12248-12259.	3.2	73
70	Recent Advances in Nanostructured Transition Metal Carbide- and Nitride-Based Cathode Electrocatalysts for Liâ€“O2 Batteries (LOBs): A Brief Review. Nanomaterials, 2020, 10, 2106.	1.9	14
71	One-Pot Synthesis of W2C/WS2 Hybrid Nanostructures for Improved Hydrogen Evolution Reactions and Supercapacitors. Nanomaterials, 2020, 10, 1597.	1.9	39
72	Asymmetric electrode incorporated 2D GeSe for self-biased and efficient photodetection. Scientific Reports, 2020, 10, 9374.	1.6	38

#	Article	IF	Citations
73	High performance, 3D-hierarchical CoS2/CoSe@C nanohybrid as an efficient electrocatalyst for hydrogen evolution reaction. Journal of Alloys and Compounds, 2020, 838, 155537.	2.8	30
74	Nanostructured transition metal sulfide/selenide anodes for high-performance sodium-ion batteries. , 2020, , 437-464.		10
75	Highly porous, hierarchical microglobules of Co3O4 embedded N-doped carbon matrix for high performance asymmetric supercapacitors. Applied Surface Science, 2020, 529, 147147.	3.1	44
76	Bio-inspired proton conducting phytagel derived zwitterionic complex membranes for fuel cells. International Journal of Energy Research, 2020, 45, 17120.	2.2	1
77	Hybrid lithium-ion capacitors based on novel 1-butyl-3-methylimidazolium bis(nonafluorobutanesulfonyl imide) (BMImBNFSI) ionic liquid electrolytes: a detailed investigation of electrochemical and cycling behaviors. Journal of Materials Research and Technology, 2020, 9, 5216-5227.	2.6	7
78	Ionic Liquid-Based Electrolytes for Energy Storage Devices: A Brief Review on Their Limits and Applications. Polymers, 2020, 12, 918.	2.0	124
79	Fabrication of manganese oxide@nitrogen doped graphene oxide/polypyrrole (MnO2@NGO/PPy) hybrid composite electrodes for energy storage devices. Journal of Materials Research and Technology, 2019, 8, 4227-4238.	2.6	54
80	Biopolymer phytagel-derived porous nanocarbon as efficient electrode material for high-performance symmetric solid-state supercapacitors. Journal of Industrial and Engineering Chemistry, 2019, 80, 258-264.	2.9	17
81	Synthesis of novel Sn1-xZnxO-chitosan nanocomposites: Structural, morphological and luminescence properties and investigation of antibacterial properties. International Journal of Biological Macromolecules, 2019, 138, 546-555.	3.6	27
82	Design of WSe₂/MoS₂ Heterostructures as the Counter Electrode to Replace Pt for Dye-Sensitized Solar Cell. ACS Sustainable Chemistry and Engineering, 2019, 7, 13195-13205.	3.2	57
83	Fabrication of Robust Hydrogen Evolution Reaction Electrocatalyst Using Ag2Se by Vacuum Evaporation. Nanomaterials, 2019, 9, 1460.	1.9	12
84	Synthesis of Mo2C and W2C Nanoparticle Electrocatalysts for the Efficient Hydrogen Evolution Reaction in Alkali and Acid Electrolytes. Frontiers in Chemistry, 2019, 7, 716.	1.8	37
85	Synthesis and Antibacterial Properties of Novel ZnMn2O4â€“Chitosan Nanocomposites. Nanomaterials, 2019, 9, 1589.	1.9	22
86	Al2O3-incorporated proton-conducting solid polymer electrolytes for electrochemical devices: a proficient method to achieve high electrochemical performance. Ionics, 2019, 25, 5117-5129.	1.2	6
87	Fabrication of MoSe2 decorated three-dimensional graphene composites structure as a highly stable electrocatalyst for improved hydrogen evolution reaction. Renewable Energy, 2019, 143, 1659-1669.	4.3	32
88	Proton transport and dielectric properties of high molecular weight polyvinylpyrrolidone (PVPK90) based solid polymer electrolytes for portable electrochemical devices. Journal of Materials Science: Materials in Electronics, 2019, 30, 11735-11747.	1.1	5
89	Facile preparation of molybdenum carbide (Mo2C) nanoparticles and its effective utilization in electrochemical sensing of folic acid via imprinting. Biosensors and Bioelectronics, 2019, 140, 111330.	5.3	59
90	Controlled synthesis of SnO2@NiCo2O4/nitrogen doped multiwalled carbon nanotube hybrids as an active electrode material for supercapacitors. Journal of Alloys and Compounds, 2019, 794, 186-194.	2.8	40

#	Article	IF	Citations
91	A one-pot chemical route to prepare poly 4, 4â€²-diaminodiphenyl sulfone-zirconium dioxide/cerium dioxide hybrid nanocomposites for improved capacitance properties. Materials Letters, 2019, 249, 5-8.	1.3	5
92	Investigations on Fe doped SnS thin films by nebulizer spray pyrolysis technique for solar cell applications. Journal of Materials Science: Materials in Electronics, 2019, 30, 8024-8034.	1.1	21
93	Reversible transition of volatile to non-volatile resistive switching and compliance current-dependent multistate switching in IGZO/MnO RRAM devices. Applied Physics Letters, 2019, 114, .	1.5	60
94	Physical properties evaluation of nebulized spray pyrolysis prepared Nd doped ZnO thin films for opto-electronic applications. Journal of Materials Science: Materials in Electronics, 2019, 30, 7257-7267.	1.1	10
95	Fabrication of MoS2/WSe2 heterostructures as electrocatalyst for enhanced hydrogen evolution reaction. Applied Surface Science, 2019, 480, 611-620.	3.1	82
96	Density functional theory study on the fluorination reactions of silicon and silicon dioxide surfaces using different fluorine-containing molecules. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, .	0.9	22
97	Metal-organic framework derived NiMo polyhedron as an efficient hydrogen evolution reaction electrocatalyst. Applied Surface Science, 2019, 478, 916-923.	3.1	55
98	Facile and cost-effective growth of MoS2 on 3D porous graphene-coated Ni foam for robust and stable hydrogen evolution reaction. Journal of Alloys and Compounds, 2019, 788, 267-276.	2.8	27
99	Shape- and size-tunable synthesis of tin sulfide thin films for energy applications by electrodeposition. Applied Surface Science, 2019, 479, 167-176.	3.1	22
100	Siâ€core/SiGeâ€shell channel nanowire FET for subâ€10â€nm logic technology in the THz regime. ETRI Journal, 2019, 41, 829-837.	1.2	1
101	Facile method to synthesis hybrid phase 1T@2H MoSe2 nanostructures for rechargeable lithium ion batteries. Journal of Electroanalytical Chemistry, 2019, 833, 333-339.	1.9	39
102	One-pot facile methodology to synthesize MoS2-graphene hybrid nanocomposites for supercapacitors with improved electrochemical capacitance. Composites Part B: Engineering, 2019, 161, 555-563.	5.9	85
103	Design of Basal Plane Edges in Metal-Doped Nanostripes-Structured MoSe₂ Atomic Layers To Enhance Hydrogen Evolution Reaction Activity. ACS Sustainable Chemistry and Engineering, 2019, 7, 458-469.	3.2	58
104	Schiff base rare earth metal complexes: Studies on functional, optical and thermal properties and assessment of antibacterial activity. International Journal of Biological Macromolecules, 2019, 124, 403-410.	3.6	43
105	Electrochemical and cycling performance of neodymium (Nd3+) doped LiNiPO4 cathode materials for high voltage lithium-ion batteries. Materials Letters, 2019, 237, 224-227.	1.3	19
106	Construction of dye-sensitized solar cells using wet chemical route synthesized MoSe2 counter electrode. Journal of Industrial and Engineering Chemistry, 2019, 69, 379-386.	2.9	18
107	SiGe Heterojunction FinFET Towards Tera-Hertz Applications. Journal of the Korean Physical Society, 2018, 72, 527-532.	0.3	0
108	In vitro cytotoxicity activity of novel Schiff base ligandâ€“lanthanide complexes. Scientific Reports, 2018, 8, 3054.	1.6	113

#	Article	IF	Citations
109	Maskless patterned growth of ZnO nanorod arrays using tip based electrolithography. Materials Science in Semiconductor Processing, 2018, 77, 24-30.	1.9	5
110	Facile and cost-effective methodology to fabricate MoS 2 counter electrode for efficient dye-sensitized solar cells. Dyes and Pigments, 2018, 151, 7-14.	2.0	47
111	Large area growth of MoTe2 films as high performance counter electrodes for dye-sensitized solar cells. Scientific Reports, 2018, 8, 29.	1.6	68
112	Effect of dimethyl carbonate (DMC) on the electrochemical and cycling properties of solid polymer electrolytes (PVP-MSA) and its application for proton batteries. Solid State Ionics, 2018, 321, 106-114.	1.3	24
113	WS2/CoSe2 heterostructure: A designed structure as catalysts for enhanced hydrogen evolution performance. Journal of Industrial and Engineering Chemistry, 2018, 65, 167-174.	2.9	34
114	Ultrathin SiGe Shell Channel p-Type FinFET on Bulk Si for Sub-10-nm Technology Nodes. IEEE Transactions on Electron Devices, 2018, 65, 1290-1297.	1.6	19
115	Electrochemical performances of LiNi1â˜'xMnxPO4 (xâ€¯=â€¯0.05â€“0.2) olivine cathode materials for high voltage rechargeable lithium ion batteries. Applied Surface Science, 2018, 449, 435-444.	3.1	27
116	Evaluation of the physical, optical, and electrical properties of SnO2: F thin films prepared by nebulized spray pyrolysis for optoelectronics. Journal of Materials Science: Materials in Electronics, 2018, 29, 3648-3656.	1.1	41
117	Development of a WS₂/MoTe₂ heterostructure as a counter electrode for the improved performance in dye-sensitized solar cells. Inorganic Chemistry Frontiers, 2018, 5, 3178-3183.	3.0	27
118	WS(1â˜'x)Sex Nanoparticles Decorated Three-Dimensional Graphene on Nickel Foam: A Robust and Highly Efficient Electrocatalyst for the Hydrogen Evolution Reaction. Nanomaterials, 2018, 8, 929.	1.9	24
119	Visualizing Degradation of Black Phosphorus Using Liquid Crystals. Scientific Reports, 2018, 8, 12966.	1.6	10
120	Facile Synthesis of Molybdenum Diselenide Layers for High-Performance Hydrogen Evolution Electrocatalysts. ACS Omega, 2018, 3, 5799-5807.	1.6	20
121	Electrochemical performance of MWCNT/GO/NiCo2O4 decorated hybrid nanocomposite for supercapacitor electrode materials. Journal of Alloys and Compounds, 2018, 765, 369-379.	2.8	62
122	CuS/WS2 and CuS/MoS2 heterostructures for high performance counter electrodes in dye-sensitized solar cells. Solar Energy, 2018, 171, 122-129.	2.9	50
123	A vertical WSe₂â€“MoSe₂ pâ€“n heterostructure with tunable gate rectification. RSC Advances, 2018, 8, 25514-25518.	1.7	23
124	Improved Hydrogen Evolution Reaction Performance using MoS₂â€“WS₂ Heterostructures by Physicochemical Process. ACS Sustainable Chemistry and Engineering, 2018, 6, 8400-8409.	3.2	111
125	High Performance MoSe₂/Mo Counter Electrodes Based- Dye-Sensitized Solar Cells. Journal of the Electrochemical Society, 2017, 164, E11-E16.	1.3	20
126	Study of Grains and Boundaries of Molybdenum Diselenide and Tungsten Diselenide Using Liquid Crystal. Nano Letters, 2017, 17, 1474-1481.	4.5	24

#	Article	IF	Citations
127	Growth of a WSe 2 /W counter electrode by sputtering and selenization annealing for high-efficiency dye-sensitized solar cells. Applied Surface Science, 2017, 406, 84-90.	3.1	32
128	Facile fabrication of n-ZnO nanorods/p-Cu2O heterojunction and its photodiode property. Optical Materials, 2017, 66, 122-130.	1.7	31
129	Capacitance behavior of radio-frequency interdigital capacitor with single- and multi-layer graphenes. Applied Physics Letters, 2017, 110, .	1.5	2
130	Chitin and Chitosan Based Hybrid Nanocomposites for Super Capacitor Applications. Journal of Nanoscience and Nanotechnology, 2017, 17, 1321-1328.	0.9	19
131	Direct synthesis of thickness-tunable MoS2 quantum dot thin layers: Optical, structural and electrical properties and their application to hydrogen evolution. Nano Energy, 2017, 35, 101-114.	8.2	99
132	Synthesis of MoS_{2(1â^'x)}Se_{2x} and WS_{2(1â^'x)}Se_{2x} alloys for enhanced hydrogen evolution reaction performance. Inorganic Chemistry Frontiers, 2017, 4, 2068-2074.	3.0	27
133	An enhanced electrochemical and cycling properties of novel boronic Ionic liquid based ternary gel polymer electrolytes for rechargeable Li/LiCoO2 cells. Scientific Reports, 2017, 7, 11103.	1.6	36
134	Synthesis of novel poly 4,4â€²-diaminodiphenyl sulphone-Fe2O3 nanocomposites for better electrochemical capacitance. Ionics, 2017, 23, 1249-1257.	1.2	5
135	One-Pot Facile Methodology to Synthesize Chitosan-ZnO-Graphene Oxide Hybrid Composites for Better Dye Adsorption and Antibacterial Activity. Nanomaterials, 2017, 7, 363.	1.9	44
136	Evaluation of the Corrosion Resistance Properties of Electroplated Chitosan-Zn1â^'xCuxO Composite Thin Films. Nanomaterials, 2017, 7, 432.	1.9	17
137	A Rapid One-Pot Synthesis of Novel High-Purity Methacrylic Phosphonic Acid (PA)-Based Polyhedral Oligomeric Silsesquioxane (POSS) Frameworks via Thiol-Ene Click Reaction. Polymers, 2017, 9, 192.	2.0	10
138	Optical and Structural Properties of Solvent Free Synthesized Starch/Chitosan-ZnO Nanocomposites. Journal of Nanomaterials, 2017, 2017, 1-8.	1.5	16
139	Shape-selective synthesis of NiO nanostructures for hydrazine oxidation as a nonenzymatic amperometric sensor. RSC Advances, 2016, 6, 86101-86107.	1.7	13
140	n-MoS₂/p-Si Solar Cells with Al₂O₃ Passivation for Enhanced Photogeneration. ACS Applied Materials & Interfaces, 2016, 8, 29383-29390.	4.0	77
141	Layer-modulated, wafer scale and continuous ultra-thin WS₂ films grown by RF sputtering via post-deposition annealing. Journal of Materials Chemistry C, 2016, 4, 7846-7852.	2.7	26
142	Selective growth of graphene in layer-by-layer via chemical vapor deposition. Nanoscale, 2016, 8, 14633-14642.	2.8	10
143	Large-area, continuous and high electrical performances of bilayer to few layers MoS2 fabricated by RF sputtering via post-deposition annealing method. Scientific Reports, 2016, 6, 30791.	1.6	104
144	Magnetic, structural and optical behavior of cupric oxide layers for solar cells. Journal of Alloys and Compounds, 2016, 686, 616-627.	2.8	38

#	Article	IF	Citations
145	Synthesis and characterization of large-area and continuous MoS₂atomic layers by RF magnetron sputtering. Nanoscale, 2016, 8, 4340-4347.	2.8	74
146	Highâ€Performance Platinumâ€Free Dyeâ€Sensitized Solar Cells with Molybdenum Disulfide Films as Counter Electrodes. ChemPhysChem, 2015, 16, 3959-3965.	1.0	27
147	Cu/MoS₂/ITO based hybrid structure for catalysis of hydrazine oxidation. RSC Advances, 2015, 5, 15374-15378.	1.7	11
148	A highly sensitive enzymeless glucose sensor based on 3D grapheneâ€“Cu hybrid electrodes. New Journal of Chemistry, 2015, 39, 7481-7487.	1.4	21
149	Controlled synthesis and optical properties of polycrystalline molybdenum disulfide atomic layers grown by chemical vapor deposition. Journal of Alloys and Compounds, 2015, 653, 369-378.	2.8	20
150	Sputtering and sulfurization-combined synthesis of a transparent WS₂ counter electrode and its application to dye-sensitized solar cells. RSC Advances, 2015, 5, 103567-103572.	1.7	32
151	Microstructural properties evaluation of SnSSe alloy films. Journal of Materials Science: Materials in Electronics, 2015, 26, 1641-1648.	1.1	12
152	Comparison studies on electrodeposited CdSe, SnSe and Cd x Sn1â^'x Se thin films. Ionics, 2015, 21, 1187-1192.	1.2	6
153	Role of Solution pH on the Microstructural Properties of Spin Coated Cobalt Oxide Thin Films. Journal of Nanoscience and Nanotechnology, 2014, 14, 4286-4291.	0.9	7
154	Physical and electrical properties of graphene grown under different hydrogen flow in low pressure chemical vapor deposition. Nanoscale Research Letters, 2014, 9, 546.	3.1	39
155	Optical, electrical and microstructural studies of monoclinic CuO nanostructures synthesized by a solâ€“gel route. New Journal of Chemistry, 2014, 38, 2327.	1.4	28
156	Graphene film growth on sputtered thin Cuâ€“Ni alloy film by inductively coupled plasma chemical vapor deposition. RSC Advances, 2014, 4, 63349-63353.	1.7	6
157	Microstructural, optical and electrical properties of various time annealed spin coated MgO thin films. Journal of Materials Science: Materials in Electronics, 2014, 25, 3846-3853.	1.1	23
158	Fabrication of high-performance graphene field-effect transistor with solution-processed Al2O3 sensing membrane. Applied Physics Letters, 2014, 104, .	1.5	19
159	Microstructural properties evaluation of Fe2O3 nanostructures. Materials Letters, 2014, 126, 288-290.	1.3	10
160	Low damage-transfer of graphene using epoxy bonding. Electronic Materials Letters, 2013, 9, 517-521.	1.0	9
161	Structural and optical properties of electrosynthesized ZnSe thin films. Optik, 2013, 124, 255-260.	1.4	47
162	SEM and AFM studies of dipâ€coated CuO nanofilms. Microscopy Research and Technique, 2013, 76, 58-65.	1.2	15

#	Article	IF	Citations
163	Optical and magnetic properties of Mn doped ZnO thin films grown by SILAR method. Journal of Materials Science: Materials in Electronics, 2013, 24, 1782-1787.	1.1	14
164	Surface modifications and optical variations of (â˜'111) lattice oriented CuO nanofilms for solar energy applications. Materials Research Bulletin, 2013, 48, 3585-3593.	2.7	20
165	Electrochemical and Physical Properties of Electroplated CuO Thin Films. Journal of Nanoscience and Nanotechnology, 2013, 13, 250-259.	0.9	7
166	Post Heat Treatment Effect on Electrochemically Synthesized CuO Thin Films. ECS Transactions, 2013, 45, 73-78.	0.3	7
167	Structural, Morphological and Optical Properties of Copper Oxide Nano Particles. ECS Transactions, 2013, 45, 9-14.	0.3	3
168	Preparation and Characterization of Electrosynthesized ZnSeTe Thin Films. ECS Transactions, 2013, 45, 19-24.	0.3	0
169	Atomic layer deposition of cobalt oxide thin films using cyclopentadienylcobalt dicarbonyl and ozone at low temperatures. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2013, 31, .	0.9	15
170	Effect of Cadmium Sulphate Concentrations on CdS Thin Films. ECS Transactions, 2013, 45, 55-60.	0.3	1
171	Variation of Microstructural and Optical Properties in SILAR Grown ZnO Thin Films by Thermal Treatment. Journal of Nanoscience and Nanotechnology, 2013, 13, 5613-5619.	0.9	4
172	Annealing effect of double dip coated ZnAl[sub 2]O[sub 4] thin films. , 2013, , .		0
173	Substrate effects on SILAR route synthesized CuO thin films. , 2012, , .		0
174	Effect of annealing temperature on CdO thin films. AIP Conference Proceedings, 2012, , .	0.3	2
175	Optical and Luminescence Properties of Electrosynthesized ZnSe Thin Films. ECS Transactions, 2012, 45, 95-100.	0.3	0
176	Electrochemical deposition and characterization of cupric oxide thin films. Thin Solid Films, 2012, 520, 6608-6613.	0.8	88
177	Physical properties evaluation of various substrates coated cupric oxide thin films by dip method. Journal of Alloys and Compounds, 2012, 539, 50-56.	2.8	33
178	Effects of bath temperature on electroplated SnSe thin films. AIP Conference Proceedings, 2012, , .	0.3	1
179	Characteristics of Schottky-barrier source/drain metal-oxide-polycrystalline thin-film transistors on glass substrates. Journal of the Korean Physical Society, 2012, 60, 6-9.	0.3	3
180	Intrinsic characteristics of transmission line of graphenes at microwave frequencies. Applied Physics Letters, 2012, 100, .	1.5	30

#	Article	IF	Citations
181	Growth and characterization of lead selenide thin films. Journal of Materials Science: Materials in Electronics, 2012, 23, 1562-1568.	1.1	11
182	Characterization of electroplated ZnTe coatings. Ionics, 2012, 18, 299-306.	1.2	22
183	Microstructural properties of electrochemically synthesized ZnSe thin films. Journal of Materials Science, 2012, 47, 1950-1957.	1.7	38
184	Spectral properties of aluminium doped zinc oxide thin films prepared by SILAR method. Journal of Materials Science: Materials in Electronics, 2012, 23, 390-397.	1.1	19
185	Electrochemical synthesis and characterization of CdSnSe thin films. Journal of Materials Science: Materials in Electronics, 2012, 23, 645-651.	1.1	4
186	Electrochemical Preparation and Characterization of Cupric Oxide Thin Films. ECS Transactions, 2011, 35, 53-60.	0.3	0
187	Morphological properties of Ag2SeTe nano thin films prepared by thermal evaporation. Journal of Microscopy, 2011, 243, 267-272.	0.8	5
188	Graphene synthesis on Fe foil using thermal CVD. Current Applied Physics, 2011, 11, S81-S85.	1.1	99
189	X-ray line broadening and photoelectrochemical studies on CdSe thin films. Journal of Materials Science, 2011, 46, 4034-4045.	1.7	15
190	Structural and optical properties of Ag2SeTe nano thin films prepared by thermal evaporation. Journal of Materials Science: Materials in Electronics, 2011, 22, 545-550.	1.1	19
191	Microstructural parameters and optical constants of CdS thin films synthesized with various bath temperature. Chemical Physics Letters, 2011, 503, 86-90.	1.2	8
192	Agglomeration effects of thin metal catalyst on graphene film synthesized by chemical vapor deposition. Electronic Materials Letters, 2011, 7, 261-264.	1.0	17
193	Structural and magnetic properties of high magnetic moment electroplated CoNiFe thin films. Ionics, 2011, 17, 835-842.	1.2	27
194	Morphology selection for cupric oxide thin films by electrodeposition. Microscopy Research and Technique, 2011, 74, 980-983.	1.2	2
195	Growth of Fewâ€Layer Graphene on a Thin Cobalt Film on a Si/SiO₂ Substrate. Chemical Vapor Deposition, 2011, 17, 9-14.	1.4	38
196	Effect of heat treatment on microstructural and optical properties of CBD grown Al-doped ZnO thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 152-156.	1.7	51
197	Role of Deposition Potential on the Optical Properties of SnSSe Thin Films. ECS Transactions, 2011, 35, 1-10.	0.3	6
198	Microstructural and Optical Properties of Electrodeposited CdSnSe Thin Films. ECS Transactions, 2011, 35, 61-68.	0.3	1

#	Article	IF	Citations
199	Surface Morphological Studies on Cupric Oxide Thin Films. , 2011, , .		0
200	Structural and Magnetic Properties of Electrodeposited Co-Ni-P Alloy Thin Films. , 2011, , .		0
201	Current Density Effects on the Structural and Magnetic Properties of CoNiFe Alloy Thin Films. , 2011, , .		0
202	Bath Temperature Effects on the Microstructural and Morphological Properties of SnS Thin Films. Journal of Advanced Microscopy Research, 2011, 6, 126-130.	0.3	7
203	Preparation and characterization of MnSe thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 257-262.	1.7	20
204	Electrochemical deposition and studies on CdCr2S4 thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2010, 174, 249-252.	1.7	12
205	Facile Methodology of Sol-Gel Synthesis for Metal Oxide Nanostructures. , 0, , .		38
206	The Effect of Boron-Doped Carbon Nanotubes Blended Active Layer on Achieving High-Efficiency Polymer Solar Cells and X-Ray Detectors. SSRN Electronic Journal, 0, , .	0.4	0