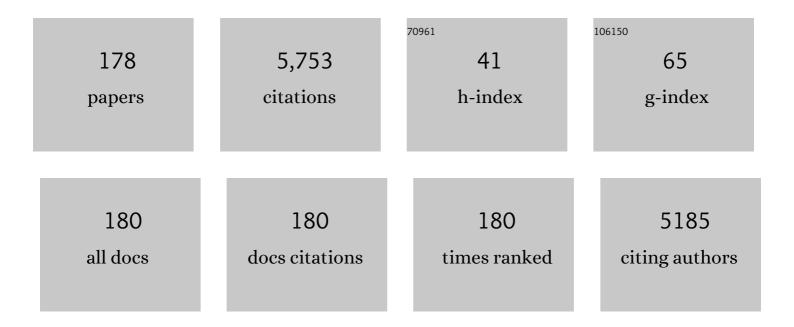
Hyun-Seok Kim

List of Publications by Year in descending order

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#	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	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
3	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
4	Bifunctional iron molybdate as highly effective heterogeneous electro-Fenton catalyst and Li-ion battery anode. Chemosphere, 2022, 286, 131846.	4.2	5
5	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
6	Sonochemically exfoliated polymer-carbon nanotube interface for high performance supercapacitors. Journal of Colloid and Interface Science, 2022, 606, 1792-1799.	5.0	47
7	Visible light-driven photocatalytic rapid degradation of organic contaminants engaging manganese dioxide-incorporated iron oxide three dimensional nanoflowers. Journal of Colloid and Interface Science, 2022, 608, 2347-2357.	5.0	22
8	<scp> MnO ₂ </scp> / <scp> Co ₃ O ₄ </scp> with N and S coâ€doped graphene oxide bimetallic nanocomposite for hybrid supercapacitor and photosensor applications. International Journal of Energy Research, 2022, 46, 4494-4505.	2.2	16
9	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
10	Ultrasonically derived WSe2 nanostructure embedded MXene hybrid composites for supercapacitors and hydrogen evolution reactions. Renewable Energy, 2022, 185, 585-597.	4.3	38
11	Nanostructurally engineered TiO2 embedded Mentha aquatica biowaste derived carbon for supercapacitor applications. Chemosphere, 2022, 289, 133197.	4.2	16
12	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
13	Improvement in Strain Sensor Stability by Adapting the Metal Contact Layer. Sensors, 2022, 22, 630.	2.1	3
14	Photosensing effect of indium-doped ZnO thin films and its heterostructure with silicon. Journal of Asian Ceramic Societies, 2022, 10, 108-119.	1.0	13
15	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
16	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
17	Ballâ€milling route to design hierarchical nanohybrid cobalt oxide structures with cellulose nanocrystals interface for supercapacitors. International Journal of Energy Research, 2022, 46, 8398-8412.	2.2	9
18	Unveiling the Redox Electrochemistry of MOFâ€Đerived fccâ€NiCo@GC Polyhedron as an Advanced Electrode Material for Boosting Specific Energy of the Supercapattery. Small, 2022, 18, e2107284.	5.2	43

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19	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
20	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
21	Water mediated electrochemical conversion of PMMA and other organic residues into graphene and carbon materials. Ceramics International, 2022, 48, 28906-28917.	2.3	3
22	Dilute Polymerization of Aniline on PDMS Substrate via Surface Modification Using (3-Aminopropyl)Triethoxysilane for Stretchable Strain Sensor. Sensors, 2022, 22, 2741.	2.1	2
23	Nuclear-induced dephasing and signatures of hyperfine effects in isotopically purified <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C<mml:mprescripts></mml:mprescripts><mml:none /><mml:mn>13</mml:mn></mml:none </mml:mi </mml:mmultiscripts>graphene. Physical Review B. 2022. 105</mml:math 	1.1	2
24	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
25	Ultrasonically decorated zinc cobaltate on nanocellulose interface for supercapacitors. Surfaces and Interfaces, 2022, 30, 101915.	1.5	7
26	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
27	Fabrication of Fe2O3 nanostructure on CNT for oxygen evolution reaction. Ceramics International, 2022, 48, 29081-29086.	2.3	21
28	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
29	Microstructurally assembled transition metal oxides with cellulose nanocrystals for high-performance supercapacitors. Journal of Energy Storage, 2022, 50, 104712.	3.9	19
30	Electrospun nanofibrous ZnO/PVA/PVP composite films for efficient antimicrobial face masks. Ceramics International, 2022, 48, 29197-29204.	2.3	14
31	V2O5 nano sheets assembled on nitrogen doped multiwalled carbon nanotubes/carboxy methyl cellulose composite for two-electrode configuration of supercapacitor applications. Ceramics International, 2022, 48, 29247-29256.	2.3	20
32	Optoelectronic and DFT investigation of thienylenevinylene based materials for thin film transistors. Journal of Molecular Liquids, 2022, 360, 119462.	2.3	3
33	MoO3@MoS2 Core-Shell Structured Hybrid Anode Materials for Lithium-Ion Batteries. Nanomaterials, 2022, 12, 2008.	1.9	10
34	Fabrication of High-Performance Solar Cells and X-ray Detectors Using MoX ₂ @CNT Nanocomposite-Tuned Perovskite Layers. ACS Applied Materials & Interfaces, 2022, 14, 33626-33640.	4.0	7
35	Physical and electrical properties' evaluation of SnS:Cu thin films. Surface Engineering, 2021, 37, 137-147.	1.1	6
36	Recent progress on synthetic strategies and applications of transition metal phosphides in energy storage and conversion. Ceramics International, 2021, 47, 4404-4425.	2.3	131

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37	Spray pressure variation effect on the properties of CdS thin films for photodetector applications. Ceramics International, 2021, 47, 7608-7616.	2.3	21
38	MoS2@X2C (XÂ=ÂMo or W) hybrids for enhanced supercapacitor and hydrogen evolution performances. Chemical Engineering Journal, 2021, 421, 127843.	6.6	49
39	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
40	A facile mechanochemical preparation of Co3O4@g-C3N4 for application in supercapacitors and degradation of pollutants in water. Journal of Hazardous Materials, 2021, 407, 124360.	6.5	163
41	Structural and Mechanical Characterization of Platinum Thin Films Prepared Electrochemically on ITO/Glass Substrate. Metals and Materials International, 2021, 27, 1554-1564.	1.8	7
42	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
43	Engineering MoSe ₂ /WS ₂ 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
44	Enhanced removal of organic dye by activated carbon decorated TiO2 nanoparticles from Mentha Aquatica leaves via ultrasonic approach. Ceramics International, 2021, 47, 8732-8739.	2.3	30
45	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
46	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
47	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
48	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
49	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
50	Photocatalytic degradation efficiency of ZnO, GO and PVA nanoadsorbents for crystal violet, methylene blue and trypan blue dyes. Optik, 2021, 238, 166671.	1.4	23
51	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
52	Eutectoid WxC embedded WS2 nanosheets as a hybrid composite anode for lithium-ion batteries. Ceramics International, 2021, 47, 18646-18655.	2.3	12
53	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
54	Highly Active Mo2C@WS2 Hybrid Electrode for Enhanced Hydrogen Evolution Reaction. Catalysts, 2021, 11, 1060.	1.6	2

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55	Hierarchical Mo2C@CNT Hybrid Structure Formation for the Improved Lithium-Ion Battery Storage Performance. Nanomaterials, 2021, 11, 2195.	1.9	6
56	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
57	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
58	Hexagonal nanostructured cobalt oxide @ nitrogen doped multiwalled carbon nanotubes/polypyyrole composite for supercapacitor and electrochemical glucose sensor. Colloids and Surfaces B: Biointerfaces, 2021, 205, 111840.	2.5	27
59	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
60	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
61	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
62	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
63	Fabrication strategies and surface tuning of hierarchical gold nanostructures for electrochemical detection and removal of toxic pollutants. Journal of Hazardous Materials, 2021, 420, 126648.	6.5	59
64	Core shell nanostructured of Co3O4@RuO2 assembled on nitrogen-doped graphene sheets electrode for an efficient supercapacitor application. Journal of Alloys and Compounds, 2021, 877, 160297.	2.8	39
65	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
66	Porous, 3D-hierarchical α-NiMoO4 rectangular nanosheets for selective conductometric ethanol gas sensors. Sensors and Actuators B: Chemical, 2021, 347, 130615.	4.0	31
67	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
68	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
69	Highly efficient solid-state synthesis of Co3O4 on multiwalled carbon nanotubes for supercapacitors. Journal of Alloys and Compounds, 2021, 887, 161307.	2.8	67
70	Enhanced electrocatalytic properties in MoS2/MoTe2 hybrid heterostructures for dye-sensitized solar cells. Applied Surface Science, 2020, 504, 144401.	3.1	32
71	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
72	Organic nanocomposite Band-Aid for chronic wound healing: a novel honey-based nanofibrous scaffold. Applied Nanoscience (Switzerland), 2020, 10, 1639-1652.	1.6	10

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73	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
74	Facile preparation of tungsten carbide nanoparticles for an efficient oxalic acid sensor via imprinting. Microchemical Journal, 2020, 159, 105404.	2.3	17
75	Cubic nanostructure of Co3O4@nitrogen doped graphene oxide/polyindole composite efficient electrodes for high performance energy storage applications. Journal of Materials Research and Technology, 2020, 9, 11464-11475.	2.6	38
76	Benzo[1, 2-b: 4, 5-b']dithiophene-based copolymers as panchromatic light sensors in organic photodiodes application. Journal of Materials Research and Technology, 2020, 9, 15632-15637.	2.6	5
77	Hybrid Design Using Carbon Nanotubes Decorated with Mo ₂ C and W ₂ C Nanoparticles for Supercapacitors and Hydrogen Evolution Reactions. ACS Sustainable Chemistry and Engineering, 2020, 8, 12248-12259.	3.2	73
78	Recent Advances in Nanostructured Transition Metal Carbide- and Nitride-Based Cathode Electrocatalysts for Li–O2 Batteries (LOBs): A Brief Review. Nanomaterials, 2020, 10, 2106.	1.9	14
79	One-Pot Synthesis of W2C/WS2 Hybrid Nanostructures for Improved Hydrogen Evolution Reactions and Supercapacitors. Nanomaterials, 2020, 10, 1597.	1.9	39
80	Fabrication and characterization of CuO/CdS heterostructure for optoelectronic applications. Journal of Sol-Gel Science and Technology, 2020, 96, 178-187.	1.1	6
81	Praseodymium doped PbS thin films for optoelectronic applications prepared by nebulizer spray pyrolysis. Applied Physics A: Materials Science and Processing, 2020, 126, 1.	1.1	16
82	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
83	Nanostructured transition metal sulfide/selenide anodes for high-performance sodium-ion batteries. , 2020, , 437-464.		10
84	Nanosheet-like ZnCo2O4@nitrogen doped graphene oxide/polyaniline composite for supercapacitor application: Effect of polyaniline incorporation. Journal of Alloys and Compounds, 2020, 830, 154734.	2.8	57
85	Fabrication of nanostructured SnO2@Co3O4/nitrogen doped graphene oxide composite for symmetric and asymmetric storage devices. Journal of Materials Research and Technology, 2020, 9, 4183-4193.	2.6	16
86	Van der Waals Heteroepitaxy of Te Crystallites/2H-MoTe2 Atomically Thin Films on GaAs Substrates by Using Metal-Organic Chemical-Vapor Deposition. Journal of the Korean Physical Society, 2020, 76, 167-170.	0.3	0
87	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
88	Thermal Analysis and Operational Characteristics of an AlGaN/GaN High Electron Mobility Transistor with Copper-Filled Structures: A Simulation Study. Micromachines, 2020, 11, 53.	1.4	16
89	Bio-inspired proton conducting phytagel derived zwitterionic complex membranes for fuel cells. International Journal of Energy Research, 2020, 45, 17120.	2.2	1
90	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

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91	Ionic Liquid-Based Electrolytes for Energy Storage Devices: A Brief Review on Their Limits and Applications. Polymers, 2020, 12, 918.	2.0	124
92	Effects of Seed Layer Coating and Oxygen Plasma Treatment on the Growth of ZnO Nanorods for UV Photodetector Applications. Journal of Nanoscience and Nanotechnology, 2020, 20, 4340-4343.	0.9	1
93	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
94	Highly interconnected porous TiO2-Ni-MOF composite aerogel photoanodes for high power conversion efficiency in quasi-solid dye-sensitized solar cells. Applied Surface Science, 2019, 496, 143646.	3.1	64
95	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
96	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
97	Design of WSe ₂ /MoS ₂ 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
98	Fabrication of Robust Hydrogen Evolution Reaction Electrocatalyst Using Ag2Se by Vacuum Evaporation. Nanomaterials, 2019, 9, 1460.	1.9	12
99	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
100	Synthesis and Antibacterial Properties of Novel ZnMn2O4–Chitosan Nanocomposites. Nanomaterials, 2019, 9, 1589.	1.9	22
101	DC Characteristics of AlGaN/GaN High-Electron Mobility Transistor with a Bottom Plate Connected to Source-Bridged Field Plate Structure. Journal of Nanoscience and Nanotechnology, 2019, 19, 2319-2322.	0.9	5
102	Electrodeposition of Unary Oxide on a Bimetallic Hydroxide as a Highly Active and Stable Catalyst for Water Oxidation. ACS Sustainable Chemistry and Engineering, 2019, 7, 16392-16400.	3.2	35
103	Porous materials of nitrogen doped graphene oxide@SnO2 electrode for capable supercapacitor application. Scientific Reports, 2019, 9, 12622.	1.6	48
104	Investigation on nebulizer spray deposited Gd-doped PbS thin films for photo sensing applications. Journal of Materials Science: Materials in Electronics, 2019, 30, 18858-18865.	1.1	4
105	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
106	Supercapacitor performance of MnO2/NiCo2O4@N-MWCNT hybrid nanocomposite electrodes. Journal of Sol-Gel Science and Technology, 2019, 91, 154-164.	1.1	19
107	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
108	A review on ZnO nanostructured materials: energy, environmental and biological applications. Nanotechnology, 2019, 30, 392001.	1.3	365

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109	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
110	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
111	Operational Characteristics of Various AlGaN/GaN High Electron Mobility Transistor Structures Concerning Self-Heating Effect. Journal of Nanoscience and Nanotechnology, 2019, 19, 6016-6022.	0.9	5
112	Robust bifunctional catalytic activities of N-doped carbon aerogel-nickel composites for electrocatalytic hydrogen evolution and hydrogenation of nitrocompounds. International Journal of Hydrogen Energy, 2019, 44, 13334-13344.	3.8	45
113	Ni(OH)2-decorated nitrogen doped MWCNT nanosheets as an efficient electrode for high performance supercapacitors. Scientific Reports, 2019, 9, 6034.	1.6	48
114	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
115	A one-pot chemical route to prepare poly 4, 4′-diaminodiphenyl sulfone-zirconium dioxide/cerium dioxide hybrid nanocomposites for improved capacitance properties. Materials Letters, 2019, 249, 5-8.	1.3	5
116	Synthesis and characterization of ZnO nanoflakes anchored carbon nanoplates for antioxidant and anticancer activity in MCF7 cell lines. Materials Science and Engineering C, 2019, 102, 536-540.	3.8	32
117	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
118	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
119	Fabrication of MoS2/WSe2 heterostructures as electrocatalyst for enhanced hydrogen evolution reaction. Applied Surface Science, 2019, 480, 611-620.	3.1	82
120	Metal-organic framework derived NiMo polyhedron as an efficient hydrogen evolution reaction electrocatalyst. Applied Surface Science, 2019, 478, 916-923.	3.1	55
121	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
122	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
123	Combustible Gas Classification Modeling using Support Vector Machine and Pairing Plot Scheme. Sensors, 2019, 19, 5018.	2.1	4
124	Facile Synthesis of Triphenylamine Based Hyperbranched Polymer for Organic Field Effect Transistors. Nanomaterials, 2019, 9, 1787.	1.9	11
125	Breakdown Voltage Enhancement in AlGaN/GaN High-Electron Mobility Transistor by Optimizing Gate Field-Plate Structure. Journal of Nanoscience and Nanotechnology, 2019, 19, 2298-2301.	0.9	2
126	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

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127	Nanostructured CuO/Co2O4@ nitrogen doped MWCNT hybrid composite electrode for high-performance supercapacitors. Composites Part B: Engineering, 2019, 166, 74-85.	5.9	92
128	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
129	Design of Basal Plane Edges in Metal-Doped Nanostripes-Structured MoSe ₂ Atomic Layers To Enhance Hydrogen Evolution Reaction Activity. ACS Sustainable Chemistry and Engineering, 2019, 7, 458-469.	3.2	58
130	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
131	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
132	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
133	Transient Current Response for ZnO Nanorodâ€Based Doubly Transparent UV Sensor Fabricated on Flexible Substrate. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800001.	1.2	10
134	Highâ€Power Microwaveâ€Assisted Ga Doping, an Effective Method to Tailor nâ€ZnO/pâ€Si Heterostructure Optoelectronic Characteristics. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700763.	0.8	7
135	In vitro cytotoxicity activity of novel Schiff base ligand–lanthanide complexes. Scientific Reports, 2018, 8, 3054.	1.6	113
136	Maskless patterned growth of ZnO nanorod arrays using tip based electrolithography. Materials Science in Semiconductor Processing, 2018, 77, 24-30.	1.9	5
137	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
138	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
139	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
140	Development of a WS ₂ /MoTe ₂ heterostructure as a counter electrode for the improved performance in dye-sensitized solar cells. Inorganic Chemistry Frontiers, 2018, 5, 3178-3183.	3.0	27
141	Hierarchical Flowerlike 3D nanostructure of Co3O4@MnO2/N-doped Graphene oxide (NGO) hybrid composite for a high-performance supercapacitor. Scientific Reports, 2018, 8, 16543.	1.6	71
142	Growth Condition-Oriented Defect Engineering for Changes in Au–ZnO Contact Behavior from Schottky to Ohmic and Vice Versa. Nanomaterials, 2018, 8, 980.	1.9	5
143	High-Speed Growth of ZnO Nanorods in Preheating Condition Using Microwave-Assisted Growth Method. Journal of Nanoscience and Nanotechnology, 2018, 18, 2041-2044.	0.9	5
144	An investigation on SnS layers for solar cells fabrication with CdS, SnS2 and ZnO window layers prepared by nebulizer spray method. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	1.1	20

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145	Thermal Analysis of AlGaN/GaN High-Electron-Mobility Transistor and Its RF Power Efficiency Optimization with Source-Bridged Field-Plate Structure. Journal of Nanoscience and Nanotechnology, 2018, 18, 5860-5867.	0.9	12
146	Facile Synthesis of Molybdenum Diselenide Layers for High-Performance Hydrogen Evolution Electrocatalysts. ACS Omega, 2018, 3, 5799-5807.	1.6	20
147	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
148	Single-Step Direct Hydrothermal Growth of NiMoO4 Nanostructured Thin Film on Stainless Steel for Supercapacitor Electrodes. Nanomaterials, 2018, 8, 563.	1.9	12
149	Operational Improvement of AlGaN/GaN High Electron Mobility Transistor by an Inner Field-Plate Structure. Applied Sciences (Switzerland), 2018, 8, 974.	1.3	20
150	Analysis of Sn Concentration Effect on Morphological, Optical, Electrical and Photonic Properties of Spray-Coated Sn-Doped CdO Thin Films. Coatings, 2018, 8, 167.	1.2	17
151	Recent advances in 2-D nanostructured metal nitrides, carbides, and phosphides electrodes for electrochemical supercapacitors – A brief review. Journal of Industrial and Engineering Chemistry, 2018, 67, 12-27.	2.9	111
152	NH4OH Treatment for an Optimum Morphological Trade-off to Hydrothermal Ga-Doped n-ZnO/p-Si Heterostructure Characteristics. Materials, 2018, 11, 37.	1.3	15
153	Recent Advances in Metal Chalcogenides (MX; X = S, Se) Nanostructures for Electrochemical Supercapacitor Applications: A Brief Review. Nanomaterials, 2018, 8, 256.	1.9	221
154	Least Squares Neural Network-Based Wireless E-Nose System Using an SnO2 Sensor Array. Sensors, 2018, 18, 1446.	2.1	40
155	Electric Field Induced Pattern Formation on PMMA and ITO Layers. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700811.	0.8	4
156	Ultrahigh supercapacitance in cobalt oxide nanorod film grown by oblique angle deposition technique. Current Applied Physics, 2018, 18, 1399-1402.	1.1	3
157	Recent developments of metal oxide based heterostructures for photocatalytic applications towards environmental remediation. Journal of Solid State Chemistry, 2018, 267, 35-52.	1.4	187
158	Improved Hydrogen Evolution Reaction Performance using MoS ₂ –WS ₂ Heterostructures by Physicochemical Process. ACS Sustainable Chemistry and Engineering, 2018, 6, 8400-8409.	3.2	111
159	NH4OH-Oriented and pH-Dependent Growth of ZnO Nanostructures via Microwave-Assisted Growth Method. Journal of Nanoscience and Nanotechnology, 2018, 18, 2125-2127.	0.9	7
160	Direct Observation of Thermally Generated Electron–Hole Pairs in ZnO Nanorods With Surface Acoustic Wave. Journal of Nanoscience and Nanotechnology, 2017, 17, 4141-4144.	0.9	2
161	Structural, optical, electrical and morphological properties of different concentration sol-gel ZnO seeds and consanguineous ZnO nanostructured growth dependence on seeds. Journal of Alloys and Compounds, 2017, 729, 571-582.	2.8	24
162	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

#	Article	IF	CITATIONS
163	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
164	A nanocrystalline structured NiO/MnO ₂ @nitrogen-doped graphene oxide hybrid nanocomposite for high performance supercapacitors. New Journal of Chemistry, 2017, 41, 15517-15527.	1.4	47
165	Growth Method-Dependent and Defect Density-Oriented Structural, Optical, Conductive, and Physical Properties of Solution-Grown ZnO Nanostructures. Nanomaterials, 2017, 7, 266.	1.9	13
166	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
167	Evaluation of the Corrosion Resistance Properties of Electroplated Chitosan-Zn1â^'xCuxO Composite Thin Films. Nanomaterials, 2017, 7, 432.	1.9	17
168	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
169	Transition Between ZnO Nanorods and ZnO Nanotubes with Their Antithetical Properties. Journal of Nanoscience and Nanotechnology, 2016, 16, 10772-10776.	0.9	10
170	Microwave-assisted Facile and Ultrafast Growth of ZnO Nanostructures and Proposition of Alternative Microwave-assisted Methods to Address Growth Stoppage. Scientific Reports, 2016, 6, 24870.	1.6	52
171	CdSe quantum dot/AlOx based non-volatile resistive memory. Journal of Materials Science: Materials in Electronics, 2016, 27, 3488-3492.	1.1	1
172	Facile Route to NiO Nanostructured Electrode Grown by Oblique Angle Deposition Technique for Supercapacitors. ACS Applied Materials & amp; Interfaces, 2016, 8, 17220-17225.	4.0	60
173	High speed switching in quantum Dot/Ti-TiOx nonvolatile memory device. Electronic Materials Letters, 2016, 12, 323-327.	1.0	4
174	Characteristics of GaAs varactor diode with hyperabrupt doping profile. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 612-616.	0.8	1
175	Fabrication and Characterization of ZnO Nanorods on Multiple Substrates. Journal of Nanoscience and Nanotechnology, 2015, 15, 8375-8380.	0.9	10
176	Effect of bath concentration on the growth and photovoltaic response of SILAR-deposited CuO thin films. Applied Physics A: Materials Science and Processing, 2015, 120, 1105-1111.	1.1	23
177	Synthesis of ZnO nanorods using different precursor solutions and their two terminal device characterization. Journal of Materials Science: Materials in Electronics, 2015, 26, 5724-5734.	1.1	10
178	Effects of a recessed camel-gate head structure on normally-off ALGaN/GaN HEMTs. Journal of the Korean Physical Society, 2013, 62, 787-793.	0.3	5