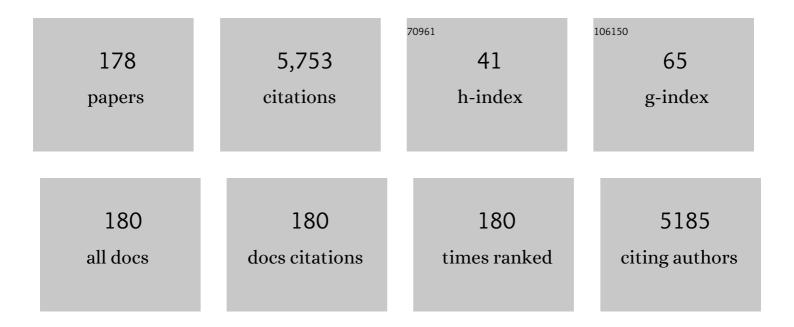
Hyun-Seok Kim

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A review on ZnO nanostructured materials: energy, environmental and biological applications. Nanotechnology, 2019, 30, 392001.	1.3	365
2	Recent Advances in Metal Chalcogenides (MX; X = S, Se) Nanostructures for Electrochemical Supercapacitor Applications: A Brief Review. Nanomaterials, 2018, 8, 256.	1.9	221
3	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
4	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
5	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
6	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
7	Ionic Liquid-Based Electrolytes for Energy Storage Devices: A Brief Review on Their Limits and Applications. Polymers, 2020, 12, 918.	2.0	124
8	In vitro cytotoxicity activity of novel Schiff base ligand–lanthanide complexes. Scientific Reports, 2018, 8, 3054.	1.6	113
9	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
10	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
11	Nanostructured CuO/Co2O4@ nitrogen doped MWCNT hybrid composite electrode for high-performance supercapacitors. Composites Part B: Engineering, 2019, 166, 74-85.	5.9	92
12	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
13	Fabrication of MoS2/WSe2 heterostructures as electrocatalyst for enhanced hydrogen evolution reaction. Applied Surface Science, 2019, 480, 611-620.	3.1	82
14	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
15	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
16	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
17	Highly efficient solid-state synthesis of Co3O4 on multiwalled carbon nanotubes for supercapacitors. Journal of Alloys and Compounds, 2021, 887, 161307.	2.8	67
18	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

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19	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
20	Facile Route to NiO Nanostructured Electrode Grown by Oblique Angle Deposition Technique for Supercapacitors. ACS Applied Materials & Interfaces, 2016, 8, 17220-17225.	4.0	60
21	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
22	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
23	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
24	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
25	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
26	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
27	Metal-organic framework derived NiMo polyhedron as an efficient hydrogen evolution reaction electrocatalyst. Applied Surface Science, 2019, 478, 916-923.	3.1	55
28	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
29	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
30	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
31	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
32	MoS2@X2C (XÂ=ÂMo or W) hybrids for enhanced supercapacitor and hydrogen evolution performances. Chemical Engineering Journal, 2021, 421, 127843.	6.6	49
33	Porous materials of nitrogen doped graphene oxide@SnO2 electrode for capable supercapacitor application. Scientific Reports, 2019, 9, 12622.	1.6	48
34	Ni(OH)2-decorated nitrogen doped MWCNT nanosheets as an efficient electrode for high performance supercapacitors. Scientific Reports, 2019, 9, 6034.	1.6	48
35	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
36	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

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37	Sonochemically exfoliated polymer-carbon nanotube interface for high performance supercapacitors. Journal of Colloid and Interface Science, 2022, 606, 1792-1799.	5.0	47
38	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
39	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
40	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
41	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
42	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
43	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
44	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
45	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
46	Least Squares Neural Network-Based Wireless E-Nose System Using an SnO2 Sensor Array. Sensors, 2018, 18, 1446.	2.1	40
47	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
48	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
49	One-Pot Synthesis of W2C/WS2 Hybrid Nanostructures for Improved Hydrogen Evolution Reactions and Supercapacitors. Nanomaterials, 2020, 10, 1597.	1.9	39
50	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
51	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
52	Ultrasonically derived WSe2 nanostructure embedded MXene hybrid composites for supercapacitors and hydrogen evolution reactions. Renewable Energy, 2022, 185, 585-597.	4.3	38
53	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
54	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

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55	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
56	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
57	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
58	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
59	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
60	Enhanced electrocatalytic properties in MoS2/MoTe2 hybrid heterostructures for dye-sensitized solar cells. Applied Surface Science, 2020, 504, 144401.	3.1	32
61	Porous, 3D-hierarchical α-NiMoO4 rectangular nanosheets for selective conductometric ethanol gas sensors. Sensors and Actuators B: Chemical, 2021, 347, 130615.	4.0	31
62	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
63	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
64	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
65	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
66	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
67	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
68	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
69	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
70	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
71	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
72	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

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73	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
74	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
75	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
76	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
77	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
78	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
79	Synthesis and Antibacterial Properties of Novel ZnMn2O4–Chitosan Nanocomposites. Nanomaterials, 2019, 9, 1589.	1.9	22
80	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
81	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
82	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
83	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
84	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
85	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
86	Spray pressure variation effect on the properties of CdS thin films for photodetector applications. Ceramics International, 2021, 47, 7608-7616.	2.3	21
87	Fabrication of Fe2O3 nanostructure on CNT for oxygen evolution reaction. Ceramics International, 2022, 48, 29081-29086.	2.3	21
88	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
89	Facile Synthesis of Molybdenum Diselenide Layers for High-Performance Hydrogen Evolution Electrocatalysts. ACS Omega, 2018, 3, 5799-5807.	1.6	20
90	Operational Improvement of AlGaN/GaN High Electron Mobility Transistor by an Inner Field-Plate Structure. Applied Sciences (Switzerland), 2018, 8, 974.	1.3	20

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91	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
92	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
93	Supercapacitor performance of MnO2/NiCo2O4@N-MWCNT hybrid nanocomposite electrodes. Journal of Sol-Gel Science and Technology, 2019, 91, 154-164.	1.1	19
94	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
95	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
96	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
97	Microstructurally assembled transition metal oxides with cellulose nanocrystals for high-performance supercapacitors. Journal of Energy Storage, 2022, 50, 104712.	3.9	19
98	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
99	Evaluation of the Corrosion Resistance Properties of Electroplated Chitosan-Zn1â^'xCuxO Composite Thin Films. Nanomaterials, 2017, 7, 432.	1.9	17
100	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
101	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
102	Facile preparation of tungsten carbide nanoparticles for an efficient oxalic acid sensor via imprinting. Microchemical Journal, 2020, 159, 105404.	2.3	17
103	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
104	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
105	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
106	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
107	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
108	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

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109	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
110	<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
111	Nanostructurally engineered TiO2 embedded Mentha aquatica biowaste derived carbon for supercapacitor applications. Chemosphere, 2022, 289, 133197.	4.2	16
112	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
113	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
114	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
115	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
116	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
117	Electrospun nanofibrous ZnO/PVA/PVP composite films for efficient antimicrobial face masks. Ceramics International, 2022, 48, 29197-29204.	2.3	14
118	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
119	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
120	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
121	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
122	Single-Step Direct Hydrothermal Growth of NiMoO4 Nanostructured Thin Film on Stainless Steel for Supercapacitor Electrodes. Nanomaterials, 2018, 8, 563.	1.9	12
123	Fabrication of Robust Hydrogen Evolution Reaction Electrocatalyst Using Ag2Se by Vacuum Evaporation. Nanomaterials, 2019, 9, 1460.	1.9	12
124	Eutectoid WxC embedded WS2 nanosheets as a hybrid composite anode for lithium-ion batteries. Ceramics International, 2021, 47, 18646-18655.	2.3	12
125	Facile Synthesis of Triphenylamine Based Hyperbranched Polymer for Organic Field Effect Transistors. Nanomaterials, 2019, 9, 1787.	1.9	11
126	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

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127	Fabrication and Characterization of ZnO Nanorods on Multiple Substrates. Journal of Nanoscience and Nanotechnology, 2015, 15, 8375-8380.	0.9	10
128	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
129	Transition Between ZnO Nanorods and ZnO Nanotubes with Their Antithetical Properties. Journal of Nanoscience and Nanotechnology, 2016, 16, 10772-10776.	0.9	10
130	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
131	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
132	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
133	Organic nanocomposite Band-Aid for chronic wound healing: a novel honey-based nanofibrous scaffold. Applied Nanoscience (Switzerland), 2020, 10, 1639-1652.	1.6	10
134	Nanostructured transition metal sulfide/selenide anodes for high-performance sodium-ion batteries. , 2020, , 437-464.		10
135	MoO3@MoS2 Core-Shell Structured Hybrid Anode Materials for Lithium-Ion Batteries. Nanomaterials, 2022, 12, 2008.	1.9	10
136	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
137	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
138	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
139	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
140	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
141	Ultrasonically decorated zinc cobaltate on nanocellulose interface for supercapacitors. Surfaces and Interfaces, 2022, 30, 101915.	1.5	7
142	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
143	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
144	Fabrication and characterization of CuO/CdS heterostructure for optoelectronic applications. Journal of Sol-Gel Science and Technology, 2020, 96, 178-187.	1.1	6

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145	Physical and electrical properties' evaluation of SnS:Cu thin films. Surface Engineering, 2021, 37, 137-147.	1.1	6
146	Hierarchical Mo2C@CNT Hybrid Structure Formation for the Improved Lithium-Ion Battery Storage Performance. Nanomaterials, 2021, 11, 2195.	1.9	6
147	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
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