

Soo Young Kim

List of Publications by Year in descending order

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300
papers

12,889
citations

18465

62
h-index

36008

97
g-index

305
all docs

305
docs citations

305
times ranked

15706
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoscale Tunable Reduction of Graphene Oxide for Graphene Electronics. <i>Science</i> , 2010, 328, 1373-1376.	6.0	658
2	Organolead Halide Perovskites for Low Operating Voltage Multilevel Resistive Switching. <i>Advanced Materials</i> , 2016, 28, 6562-6567.	11.1	285
3	Self-Activated Transparent All-Graphene Gas Sensor with Endurance to Humidity and Mechanical Bending. <i>ACS Nano</i> , 2015, 9, 10453-10460.	7.3	277
4	Silk Fibroin-Based Biomaterials for Biomedical Applications: A Review. <i>Polymers</i> , 2019, 11, 1933.	2.0	259
5	Increased Work Function in Few-Layer Graphene Sheets via Metal Chloride Doping. <i>Advanced Functional Materials</i> , 2012, 22, 4724-4731.	7.8	242
6	Recent Advances toward High-Efficiency Halide Perovskite Light-Emitting Diodes: Review and Perspective. <i>Small Methods</i> , 2018, 2, 1700419.	4.6	213
7	Using silane-functionalized graphene oxides for enhancing the interfacial bonding strength of carbon/epoxy composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2015, 75, 11-17.	3.8	205
8	Organic-Inorganic Hybrid Halide Perovskites for Memories, Transistors, and Artificial Synapses. <i>Advanced Materials</i> , 2018, 30, e1704002.	11.1	205
9	Role of oxygen functional groups in graphene oxide for reversible room-temperature NO ₂ sensing. <i>Carbon</i> , 2015, 91, 178-187.	5.4	183
10	Air-Stable Cesium Lead Iodide Perovskite for Ultra-Low Operating Voltage Resistive Switching. <i>Advanced Functional Materials</i> , 2018, 28, 1705783.	7.8	177
11	Wafer-scale transferable molybdenum disulfide thin-film catalysts for photoelectrochemical hydrogen production. <i>Energy and Environmental Science</i> , 2016, 9, 2240-2248.	15.6	174
12	Low-dimensional halide perovskites: review and issues. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2189-2209.	2.7	165
13	Flexible active-matrix organic light-emitting diode display enabled by MoS ₂ thin-film transistor. <i>Science Advances</i> , 2018, 4, eaas8721.	4.7	163
14	Recent Advances in Memristive Materials for Artificial Synapses. <i>Advanced Materials Technologies</i> , 2018, 3, 1800457.	3.0	161
15	Bioactive effects of graphene oxide cell culture substratum on structure and function of human adipose-derived stem cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 3520-3530.	2.1	148
16	Size-Dependent Properties of Two-Dimensional MoS ₂ and WS ₂ . <i>Journal of Physical Chemistry C</i> , 2016, 120, 10078-10085.	1.5	144
17	Enhanced Endurance Organolead Halide Perovskite Resistive Switching Memories Operable under an Extremely Low Bending Radius. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 30764-30771.	4.0	135
18	Lead-Free All-Inorganic Cesium Tin Iodide Perovskite for Filamentary and Interface-Type Resistive Switching toward Environment-Friendly and Temperature-Tolerant Nonvolatile Memories. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 8155-8163.	4.0	133

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19	Recent Advances in TiO ₂ -Based Photocatalysts for Reduction of CO ₂ to Fuels. <i>Nanomaterials</i> , 2020, 10, 337.	1.9	133
20	Highly selective and sensitive chemoresistive humidity sensors based on rGO/MoS ₂ van der Waals composites. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5016-5024.	5.2	132
21	Effect of ultraviolet ozone treatment of indium tin oxide on electrical properties of organic light emitting diodes. <i>Journal of Applied Physics</i> , 2004, 95, 2560-2563.	1.1	126
22	Two-dimensional materials as catalysts for solar fuels: hydrogen evolution reaction and CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2019, 7, 430-454.	5.2	125
23	Chemoresistive materials for electronic nose: Progress, perspectives, and challenges. <i>Informa Mater. Rev.</i> , 2019, 1, 289-316.	8.5	123
24	Towards artificial photosynthesis: Sustainable hydrogen utilization for photocatalytic reduction of CO ₂ to high-value renewable fuels. <i>Chemical Engineering Journal</i> , 2020, 402, 126184.	6.6	123
25	Room temperature humidity sensors based on rGO/MoS ₂ hybrid composites synthesized by hydrothermal method. <i>Sensors and Actuators B: Chemical</i> , 2018, 258, 775-782.	4.0	121
26	Recent progress in TiO ₂ -based photocatalysts for hydrogen evolution reaction: A review. <i>Arabian Journal of Chemistry</i> , 2020, 13, 3653-3671.	2.3	120
27	Novel Architecture Titanium Carbide (Ti ₃ C ₂ T _x) MXene Cocatalysts toward Photocatalytic Hydrogen Production: A Mini-Review. <i>Nanomaterials</i> , 2020, 10, 602.	1.9	114
28	Inhibition of Ion Migration for Reliable Operation of Organolead Halide Perovskite-Based Metal/Semiconductor/Metal Broadband Photodetectors. <i>Advanced Functional Materials</i> , 2016, 26, 4213-4222.	7.8	112
29	Transition Metal Disulfide Nanosheets Synthesized by Facile Sonication Method for the Hydrogen Evolution Reaction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 3929-3935.	1.5	101
30	Atomically thin two-dimensional materials as hole extraction layers in organolead halide perovskite photovoltaic cells. <i>Journal of Power Sources</i> , 2016, 319, 1-8.	4.0	98
31	Work-Function Decrease of Graphene Sheet Using Alkali Metal Carbonates. <i>Journal of Physical Chemistry C</i> , 2012, 116, 26586-26591.	1.5	97
32	Synthesis of Atomically Thin Transition Metal Disulfides for Charge Transport Layers in Optoelectronic Devices. <i>ACS Nano</i> , 2015, 9, 4146-4155.	7.3	94
33	Halide Perovskites for Applications beyond Photovoltaics. <i>Small Methods</i> , 2018, 2, 1700310.	4.6	94
34	Two-dimensional transition metal dichalcogenide nanomaterials for solar water splitting. <i>Electronic Materials Letters</i> , 2015, 11, 323-335.	1.0	93
35	Two-Dimensional Transition Metal Disulfides for Chemoresistive Gas Sensing: Perspective and Challenges. <i>Chemosensors</i> , 2017, 5, 15.	1.8	92
36	Performances of Liquid-Exfoliated Transition Metal Dichalcogenides as Hole Injection Layers in Organic Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2015, 25, 4512-4519.	7.8	91

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37	Full-color active-matrix organic light-emitting diode display on human skin based on a large-area MoS ₂ backplane. <i>Science Advances</i> , 2020, 6, eabb5898.	4.7	91
38	Halide perovskites for resistive random-access memories. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5226-5234.	2.7	90
39	Enhancement of hole injection using O ₂ plasma-treated Ag anode for top-emitting organic light-emitting diodes. <i>Applied Physics Letters</i> , 2005, 86, 012104.	1.5	86
40	The use of UV/ozone-treated MoS ₂ nanosheets for extended air stability in organic photovoltaic cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 13123-13128.	1.3	86
41	Sliced graphene foam films for dual-functional wearable strain sensors and switches. <i>Nanoscale Horizons</i> , 2018, 3, 35-44.	4.1	84
42	Perovskite oxide-based photocatalysts for solar-driven hydrogen production: Progress and perspectives. <i>Solar Energy</i> , 2020, 211, 584-599.	2.9	84
43	Cesium lead iodide solar cells controlled by annealing temperature. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 6257-6263.	1.3	82
44	Black Phosphorus: Critical Review and Potential for Water Splitting Photocatalyst. <i>Nanomaterials</i> , 2016, 6, 194.	1.9	79
45	Synthesis of Numerous Edge Sites in MoS ₂ via SiO ₂ Nanorods Platform for Highly Sensitive Gas Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 31594-31602.	4.0	79
46	Dual-Phase All-Inorganic Cesium Halide Perovskites for Conducting-Bridge Memory-Based Artificial Synapses. <i>Advanced Functional Materials</i> , 2019, 29, 1906686.	7.8	79
47	The emerging covalent organic frameworks (COFs) for solar-driven fuels production. <i>Coordination Chemistry Reviews</i> , 2021, 446, 214117.	9.5	79
48	Photocatalytic NO _x abatement: Recent advances and emerging trends in the development of photocatalysts. <i>Journal of Cleaner Production</i> , 2020, 270, 121912.	4.6	78
49	Two-Dimensional Metal-Organic Frameworks and Covalent-Organic Frameworks for Electrocatalysis: Distinct Merits by the Reduced Dimension. <i>Advanced Energy Materials</i> , 2022, 12, 2003990.	10.2	78
50	Enhancement of electron injection in inverted top-emitting organic light-emitting diodes using an insulating magnesium oxide buffer layer. <i>Applied Physics Letters</i> , 2005, 87, 082102.	1.5	77
51	Ultrasensitive reversible oxygen sensing by using liquid-exfoliated MoS ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6070-6076.	5.2	76
52	Mechanism for Ohmic contact formation of oxidized Ni/Au on p-type GaN. <i>Journal of Applied Physics</i> , 2003, 94, 1748-1752.	1.1	75
53	Graphene-based catalysts for electrochemical carbon dioxide reduction. , 2020, 2, 158-175.		75
54	Quasi-2D halide perovskites for resistive switching devices with ON/OFF ratios above 109. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	71

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55	Use of silane-functionalized graphene oxide in organic photovoltaic cells and organic light-emitting diodes. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9369-9374.	1.3	69
56	Drastically enhanced hydrogen evolution activity by 2D to 3D structural transition in anion-engineered molybdenum disulfide thin films for efficient Si-based water splitting photocathodes. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15534-15542.	5.2	69
57	Polarized Light-Emitting Diodes Based on Patterned MoS ₂ Nanosheet Hole Transport Layer. <i>Advanced Materials</i> , 2017, 29, 1702598.	11.1	68
58	Emerging cocatalysts in TiO ₂ -based photocatalysts for light-driven catalytic hydrogen evolution: Progress and perspectives. <i>Fuel</i> , 2022, 307, 121745.	3.4	68
59	Investigation of Energy Levels and Crystal Structures of Cesium Lead Halides and Their Application in Full-Color Light-Emitting Diodes. <i>Advanced Electronic Materials</i> , 2017, 3, 1600448.	2.6	67
60	Water Splitting Exceeding 17% Solar-to-Hydrogen Conversion Efficiency Using Solution-Processed Ni-Based Electrocatalysts and Perovskite/Si Tandem Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 33835-33843.	4.0	67
61	Superhydrophobic and antireflective nanoglass-coated glass for high performance solar cells. <i>Nano Research</i> , 2014, 7, 670-678.	5.8	66
62	The role of metal dopants in WS ₂ nanoflowers in enhancing the hydrogen evolution reaction. <i>Applied Catalysis A: General</i> , 2018, 567, 73-79.	2.2	66
63	Halide perovskite photocatalysis: progress and perspectives. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 2579-2596.	1.6	66
64	SnS ₂ Nanograins on Porous SiO ₂ Nanorods Template for Highly Sensitive NO ₂ Sensor at Room Temperature with Excellent Recovery. <i>ACS Sensors</i> , 2019, 4, 678-686.	4.0	64
65	Micro-nanoporous MoO ₂ @CoMo heterostructure catalyst for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118895.	10.8	63
66	Memristive Devices Based on Two-Dimensional Transition Metal Chalcogenides for Neuromorphic Computing. <i>Nano-Micro Letters</i> , 2022, 14, 58.	14.4	62
67	Enhanced Optical Properties and Stability of CsPbBr ₃ Nanocrystals Through Nickel Doping. <i>Advanced Functional Materials</i> , 2021, 31, 2102770.	7.8	59
68	Effect of anions in Au complexes on doping and degradation of graphene. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2463.	2.7	58
69	Facile synthesis of WS ₂ hollow spheres and their hydrogen evolution reaction performance. <i>Applied Surface Science</i> , 2020, 505, 144574.	3.1	58
70	Recent progress on MXenes and MOFs hybrids: Structure, synthetic strategies and catalytic water splitting. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 6560-6574.	3.8	58
71	Progress on the photocatalytic reduction of hexavalent Cr (VI) using engineered graphitic carbon nitride. <i>Chemical Engineering Research and Design</i> , 2021, 152, 663-678.	2.7	57
72	Metal salt-modified biochars derived from agro-waste for effective congo red dye removal. <i>Environmental Research</i> , 2021, 200, 111492.	3.7	57

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73	UV/ozone-treated WS ₂ hole extraction layer in organic photovoltaic cells. Physica Status Solidi - Rapid Research Letters, 2014, 8, 390-394.	1.2	56
74	Direct synthesis of two-dimensional MoS ₂ on p-type Si and application to solar hydrogen production. NPG Asia Materials, 2019, 11, .	3.8	56
75	Recent advances in the application of two-dimensional materials as charge transport layers in organic and perovskite solar cells. FlatChem, 2017, 2, 54-66.	2.8	53
76	Scalable ultrarobust thermoconductive nonflammable bioinspired papers of graphene nanoplatelet crosslinked aramid nanofibers for thermal management and electromagnetic shielding. Journal of Materials Chemistry A, 2021, 9, 8527-8540.	5.2	53
77	Graphene oxide/PEDOT:PSS and reduced graphene oxide/PEDOT:PSS hole extraction layers in organic photovoltaic cells. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 1363-1368.	0.8	52
78	Dual use of tantalum disulfides as hole and electron extraction layers in organic photovoltaic cells. Physical Chemistry Chemical Physics, 2014, 16, 25468-25472.	1.3	51
79	Polymer incorporated magnetic nanoparticles: Applications for magneto-responsive targeted drug delivery. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 272, 115358.	1.7	51
80	Halide Perovskite Quantum Dots for Light-Emitting Diodes: Properties, Synthesis, Applications, and Outlooks. Advanced Electronic Materials, 2018, 4, 1800335.	2.6	50
81	Recent Advances in Electrochemical Sensors and Biosensors for Detecting Bisphenol A. Sensors, 2020, 20, 3364.	2.1	50
82	Highly efficient organic light-emitting diodes with hole injection layer of transition metal oxides. Journal of Applied Physics, 2005, 98, 093707.	1.1	49
83	Microtitre scale solution processing for controlled, rapid fabrication of chemically derived graphene thin films. Journal of Materials Chemistry, 2012, 22, 3606.	6.7	48
84	Two-dimensional materials and metal-organic frameworks for the CO ₂ reduction reaction. Materials Today Advances, 2020, 5, 100038.	2.5	48
85	Metal-organic framework-derived MoS _x composites as efficient electrocatalysts for hydrogen evolution reaction. Journal of Alloys and Compounds, 2021, 852, 156952.	2.8	48
86	Facile synthesis of W ₂ C@WS ₂ alloy nanoflowers and their hydrogen generation performance. Applied Surface Science, 2020, 504, 144389.	3.1	47
87	Low-resistance Ti/Al ohmic contact on undoped ZnO. Journal of Electronic Materials, 2002, 31, 868-871.	1.0	46
88	Submerged photocatalytic membrane reactor with suspended and immobilized N-doped TiO ₂ under visible irradiation for diclofenac removal from wastewater. Chemical Engineering Research and Design, 2020, 142, 229-237.	2.7	46
89	NO ₂ sensing properties of porous Au-incorporated tungsten oxide thin films prepared by solution process. Sensors and Actuators B: Chemical, 2019, 286, 512-520.	4.0	45
90	Metal-Organic Framework Materials for Perovskite Solar Cells. Polymers, 2020, 12, 2061.	2.0	45

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91	Lead-free all-inorganic halide perovskite quantum dots: review and outlook. Journal of the Korean Ceramic Society, 2020, 57, 455-479.	1.1	45
92	Effect of an indium-tin-oxide overlayer on transparent Ni/Au ohmic contact on p-type GaN. Applied Physics Letters, 2003, 82, 61-63.	1.5	44
93	Dendritic gold-supported iridium/iridium oxide ultra-low loading electrodes for high-performance proton exchange membrane water electrolyzer. Applied Catalysis B: Environmental, 2021, 283, 119596.	10.8	44
94	Dark spot formation mechanism in organic light emitting diodes. Applied Physics Letters, 2006, 89, 132108.	1.5	43
95	Extension of stability in organic photovoltaic cells using UV/ozone-treated graphene sheets. Solar Energy Materials and Solar Cells, 2013, 109, 148-154.	3.0	43
96	Solution-processed quantum dot light-emitting diodes with PANI:PSS hole-transport interlayers. Organic Electronics, 2015, 19, 131-139.	1.4	43
97	2D metal-organic framework derived co-loading of Co ₃ O ₄ and PdO nanocatalysts on In ₂ O ₃ hollow spheres for tailored design of high-performance breath acetone sensors. Sensors and Actuators B: Chemical, 2020, 325, 128821.	4.0	43
98	Facile Solution Synthesis of Tungsten Trioxide Doped with Nanocrystalline Molybdenum Trioxide for Electrochromic Devices. Scientific Reports, 2017, 7, 13258.	1.6	42
99	ZnS-based quantum dots as photocatalysts for water purification. Journal of Water Process Engineering, 2021, 43, 102217.	2.6	41
100	Vertically aligned two-dimensional halide perovskites for reliably operable artificial synapses. Materials Today, 2022, 52, 19-30.	8.3	40
101	MoS ₂ -nanosheet/graphene-oxide composite hole injection layer in organic light-emitting diodes. Electronic Materials Letters, 2017, 13, 344-350.	1.0	39
102	2D and Quasi-2D Halide Perovskites: Applications and Progress. Physica Status Solidi - Rapid Research Letters, 2020, 14, 1900435.	1.2	37
103	MoSe ₂ -GO/rGO Composite Catalyst for Hydrogen Evolution Reaction. Polymers, 2018, 10, 1309.	2.0	36
104	Fabrication of a WS ₂ /p-Si Heterostructure Photocathode Using Direct Hybrid Thermolysis. ACS Applied Materials & Interfaces, 2019, 11, 29910-29916.	4.0	36
105	Hierarchical molybdenum disulfide on carbon nanotube-reduced graphene oxide composite paper as efficient catalysts for hydrogen evolution reaction. Journal of Alloys and Compounds, 2020, 823, 153897.	2.8	36
106	Surface-Tailored Medium Entropy Alloys as Radically Low Overpotential Oxygen Evolution Electrocatalysts. Small, 2022, 18, e2105611.	5.2	36
107	Enhancement of physical properties of indium tin oxide deposited by super density arc plasma ion plating by O ₂ plasma treatment. Solid-State Electronics, 2008, 52, 1-6.	0.8	35
108	Structural Investigation of Cesium Lead Halide Perovskites for High-Efficiency Quantum Dot Light-Emitting Diodes. Journal of Physical Chemistry Letters, 2017, 8, 4140-4147.	2.1	35

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109	Si-Based Water Oxidation Photoanodes Conjugated with Earth-Abundant Transition Metal-Based Catalysts. , 2020, 2, 107-126.		35
110	Recent advances in asphaltene transformation in heavy oil hydroprocessing: Progress, challenges, and future perspectives. Fuel Processing Technology, 2021, 213, 106681.	3.7	35
111	Graphitic carbon nitride based immobilized and non-immobilized floating photocatalysts for environmental remediation. Chemosphere, 2022, 297, 134229.	4.2	35
112	Ni ₃ Se ₄ @MoSe ₂ Composites for Hydrogen Evolution Reaction. Applied Sciences (Switzerland), 2019, 9, 5035.	1.3	34
113	Amorphous Cobalt Oxide Nanowalls as Catalyst and Protection Layers on n-Type Silicon for Efficient Photoelectrochemical Water Oxidation. ACS Catalysis, 2020, 10, 420-429.	5.5	34
114	Effect of N ₂ , Ar, and O ₂ plasma treatments on surface properties of metals. Journal of Applied Physics, 2008, 103, .	1.1	33
115	Pulsed Electromagnetic Field-Assisted Reduced Graphene Oxide Substrates for Multidifferentiation of Human Mesenchymal Stem Cells. Advanced Healthcare Materials, 2016, 5, 2069-2079.	3.9	33
116	Recent development of high-performance photocatalysts for N ₂ fixation: A review. Journal of Environmental Chemical Engineering, 2021, 9, 104997.	3.3	33
117	Ligand-Assisted Sulfide Surface Treatment of CsPb ₃ Perovskite Quantum Dots to Increase Photoluminescence and Recovery. ACS Photonics, 2021, 8, 1979-1987.	3.2	33
118	Enhancement of hole injection using iridium-oxide-coated indium tin oxide anodes in organic light-emitting diodes. Applied Physics Letters, 2005, 86, 133504.	1.5	32
119	Flexible organic light-emitting diodes using a laser lift-off method. Journal of Materials Chemistry C, 2014, 2, 2144.	2.7	32
120	Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decorated-Induced Reduction of Graphene Oxide. Advanced Materials, 2017, 29, 1605929.	11.1	32
121	Synthesis of MoS _x /Ni-metal-organic framework ₇₄ composites as efficient electrocatalysts for hydrogen evolution reactions. International Journal of Energy Research, 2021, 45, 9638-9647.	2.2	32
122	Strategies and perspectives of tailored SnS ₂ photocatalyst for solar driven energy applications. Solar Energy, 2022, 231, 546-565.	2.9	32
123	Role of Metal Cations in Alkali Metal Chloride Doped Graphene. Journal of Physical Chemistry C, 2014, 118, 8187-8193.	1.5	31
124	Surface extension of MeS ₂ (Me=Mo or W) nanosheets by embedding MeS _x for hydrogen evolution reaction. Electrochimica Acta, 2018, 292, 136-141.	2.6	31
125	Enhanced visible photocatalytic degradation of diclofen over N-doped TiO ₂ assisted with H ₂ O ₂ : A kinetic and pathway study. Arabian Journal of Chemistry, 2020, 13, 8361-8371.	2.3	31
126	A roadmap towards the development of superior photocatalysts for solar-driven CO ₂ -to-fuels production. Renewable and Sustainable Energy Reviews, 2021, 148, 111298.	8.2	31

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127	Recent Advances in the Aptamer-Based Electrochemical Biosensors for Detecting Aflatoxin B1 and Its Pertinent Metabolite Aflatoxin M1. <i>Sensors</i> , 2020, 20, 3256.	2.1	30
128	Highly Reflective and Low-Resistant Ni/Au/ITO/Ag Ohmic Contact on p-Type GaN. <i>Electrochemical and Solid-State Letters</i> , 2004, 7, G102.	2.2	29
129	Tungsten disulfide thin film/p-type Si heterojunction photocathode for efficient photochemical hydrogen production. <i>MRS Communications</i> , 2017, 7, 272-279.	0.8	29
130	Novel peptides functionalized gold nanoparticles decorated tungsten disulfide nanoflowers as the electrochemical sensing platforms for the norovirus in an oyster. <i>Food Control</i> , 2020, 114, 107225.	2.8	29
131	Bottom-Up Synthesis of MeS _x Nanodots for Optoelectronic Device Applications. <i>Advanced Optical Materials</i> , 2016, 4, 1796-1804.	3.6	28
132	Fabrication of Biocompatible Polycaprolactone-Hydroxyapatite Composite Filaments for the FDM 3D Printing of Bone Scaffolds. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 6351.	1.3	28
133	Recent progress of perovskite devices fabricated using thermal evaporation method: Perspective and outlook. <i>Materials Today Advances</i> , 2022, 14, 100232.	2.5	28
134	Multifunctional nano-heterogeneous Ni(OH) ₂ /NiFe catalysts on silicon photoanode toward efficient water and urea oxidation. <i>Applied Catalysis B: Environmental</i> , 2022, 317, 121765.	10.8	28
135	Role of ionic chlorine in the thermal degradation of metal chloride-doped graphene sheets. <i>Journal of Materials Chemistry C</i> , 2013, 1, 253-259.	2.7	27
136	In situ formation of graphene/metal oxide composites for high-energy microsupercapacitors. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	27
137	Lead-Free Dual-Phase Halide Perovskites for Preconditioned Conducting-Bridge Memory. <i>Small</i> , 2020, 16, e2003225.	5.2	27
138	Transfer of ultrathin molybdenum disulfide and transparent nanomesh electrode onto silicon for efficient heterojunction solar cells. <i>Nano Energy</i> , 2018, 50, 649-658.	8.2	26
139	Vertically aligned MoS ₂ thin film catalysts with Fe-Ni sulfide nanoparticles by one-step sulfurization for efficient solar water reduction. <i>Chemical Engineering Journal</i> , 2021, 418, 129369.	6.6	26
140	Stable and multicolored electrochromic device based on polyaniline-tungsten oxide hybrid thin film. <i>Journal of Alloys and Compounds</i> , 2021, 882, 160718.	2.8	26
141	Toward practical solar-driven photocatalytic water splitting on two-dimensional MoS ₂ based solid-state Z-scheme and S-scheme heterostructure. <i>Fuel</i> , 2021, 303, 121302.	3.4	26
142	Recent progress of two-dimensional materials and metal-organic framework-based taste sensors. <i>Journal of the Korean Ceramic Society</i> , 2020, 57, 353-367.	1.1	25
143	Highly Ordered TiO ₂ Nanotubes on Patterned Substrates: Synthesis-in-Place for Ultrasensitive Chemiresistors. <i>Journal of Physical Chemistry C</i> , 2013, 117, 17824-17831.	1.5	24
144	Comparison of Graphene Oxide with Reduced Graphene Oxide as Hole Extraction Layer in Organic Photovoltaic Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 3282-3287.	0.9	24

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145	Tailoring catalytic activities of transition metal disulfides for water splitting. FlatChem, 2017, 4, 68-80.	2.8	24
146	Prussian blue-based nanostructured materials: Catalytic applications for environmental remediation and energy conversion. Molecular Catalysis, 2021, 514, 111835.	1.0	24
147	MoS ₂ Nanosheets Exfoliated by Sonication and Their Application in Organic Photovoltaic Cells. Science of Advanced Materials, 2015, 7, 700-705.	0.1	24
148	Metal-organic-framework based catalyst for hydrogen production: Progress and perspectives. International Journal of Hydrogen Energy, 2022, 47, 37552-37568.	3.8	24
149	Effect of magnesium oxide buffer layer on performance of inverted top-emitting organic light-emitting diodes. Journal of Applied Physics, 2006, 100, 064106.	1.1	23
150	Facile synthesis of CsPbBr ₃ /PbSe composite clusters. Science and Technology of Advanced Materials, 2018, 19, 10-17.	2.8	23
151	Role of Additives on the Performance of CsPbI ₃ Solar Cells. Journal of Physical Chemistry C, 2018, 122, 15903-15910.	1.5	23
152	All-Solution-Processed BiVO ₄ /TiO ₂ Photoanode with NiCo ₂ O ₄ Nanofiber Cocatalyst for Enhanced Solar Water Oxidation. ACS Applied Energy Materials, 2020, 3, 5646-5656.	2.5	23
153	Advances and recent trends in cobalt-based cocatalysts for solar-to-fuel conversion. Applied Materials Today, 2021, 24, 101074.	2.3	23
154	Effect of thin iridium oxide on the formation of interface dipole in organic light-emitting diodes. Applied Physics Letters, 2005, 87, 232105.	1.5	22
155	Grain Boundaries Boost Oxygen Evolution Reaction in NiFe Electrocatalysts. Small Methods, 2021, 5, 2000755.	4.6	22
156	MOF-derived NiSe ₂ nanoparticles grown on carbon fiber as a binder-free and efficient catalyst for hydrogen evolution reaction. International Journal of Hydrogen Energy, 2022, 47, 41587-41595.	3.8	22
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