

Soo Young Kim

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

279
papers

8,410
citations

51
h-index

79
g-index

305
ext. papers

10,551
ext. citations

6.9
avg, IF

6.59
L-index

#	Paper	IF	Citations
279	Recent Research Trends for Improving the Stability of Organo/Inorgano Halide Perovskites. <i>Journal of Korean Institute of Metals and Materials</i> , 2022 , 60, 1-13	1	1
278	Surface-Tailored Medium Entropy Alloys as Radically Low Overpotential Oxygen Evolution Electrocatalysts.. <i>Small</i> , 2022 , e2105611	11	6
277	Memristive Devices Based on Two-Dimensional Transition Metal Chalcogenides for Neuromorphic Computing.. <i>Nano-Micro Letters</i> , 2022 , 14, 58	19.5	8
276	Low-temperature synthesis of molybdenum sulfides, tungsten sulfides, and composites thereof as efficient electrocatalysts for hydrogen evolution reaction. <i>Applied Surface Science</i> , 2022 , 576, 151828	6.7	1
275	Strategies and perspectives of tailored SnS ₂ photocatalyst for solar driven energy applications. <i>Solar Energy</i> , 2022 , 231, 546-565	6.8	3
274	Emerging cocatalysts in TiO ₂ -based photocatalysts for light-driven catalytic hydrogen evolution: Progress and perspectives. <i>Fuel</i> , 2022 , 307, 121745	7.1	11
273	Sandwich-like Co(OH) _x /Ag/Co(OH) ₂ nanosheet composites for oxygen evolution reaction in anion exchange membrane water electrolyzer. <i>Journal of Alloys and Compounds</i> , 2022 , 889, 161674	5.7	3
272	Reduced graphene oxide-incorporated calcium phosphate cements with pulsed electromagnetic fields for bone regeneration.. <i>RSC Advances</i> , 2022 , 12, 5557-5570	3.7	0
271	Microstructure of spark plasma sintered TiC/B ₂ O ₃ /Cw composite. <i>Materials Chemistry and Physics</i> , 2022 , 281, 125877	4.4	0
270	Graphitic carbon nitride based immobilized and non-immobilized floating photocatalysts for environmental remediation.. <i>Chemosphere</i> , 2022 , 134229	8.4	2
269	Synthesis of ultra-high strength structured material from steam-modified delignification of wood. <i>Journal of Cleaner Production</i> , 2022 , 351, 131531	10.3	1
268	Recent progress of perovskite devices fabricated using thermal evaporation method: Perspective and outlook. <i>Materials Today Advances</i> , 2022 , 14, 100232	7.4	4
267	Metal-organic framework for lithium and sodium-ion batteries: Progress and perspectivez. <i>Fuel</i> , 2022 , 319, 123856	7.1	3
266	Electrochemical conversion of CO to value-added chemicals over bimetallic Pd-based nanostructures: Recent progress and emerging trends.. <i>Environmental Research</i> , 2022 , 113116	7.9	0
265	Electrochemical fabrication of Ni-P-B ternary catalyst for hydrogen production in proton exchange membrane water electrolyzer. <i>International Journal of Energy Research</i> , 2022 , 46, 5988-5996	4.5	1
264	Carbohydrate-based nanostructured catalysts: applications in organic transformations. <i>Materials Today Chemistry</i> , 2022 , 24, 100869	6.2	3
263	Metal-Organic-Framework- and MXene-Based Taste Sensors and Glucose Detection. <i>Sensors</i> , 2021 , 21,	3.8	1

262	CoMo heterohierarchical foam-structured cathode for anion exchange membrane water electrolyzer. <i>International Journal of Hydrogen Energy</i> , 2021 , 47, 2093-2093	6.7	1
261	Metal-organic-framework-derived metals and metal compounds as electrocatalysts for oxygen evolution reaction: A review. <i>International Journal of Hydrogen Energy</i> , 2021 ,	6.7	4
260	Strong Fermi-level pinning at metal contacts to halide perovskites. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 15212-15220	7.1	3
259	Surface Treatment of Mixed-Halide CsPb(BrxI1-x)3 Perovskite Quantum Dots for Thermal Stability Enhancement. <i>Materials Research Bulletin</i> , 2021 , 146, 111622	5.1	1
258	Electrochemical conversion of carbon dioxide over silver-based catalysts: Recent progress in cathode structure and interface engineering. <i>Chemical Engineering Science</i> , 2021 , 234, 116403	4.4	5
257	Emerging photocatalysts for air purification. <i>Materials Letters</i> , 2021 , 288, 129355	3.3	7
256	Tailoring the Structure of Low-Dimensional Halide Perovskite through a Room Temperature Solution Process: Role of Ligands.. <i>Small Methods</i> , 2021 , 5, e2100054	12.8	2
255	Surface-tailored graphene channels. <i>Npj 2D Materials and Applications</i> , 2021 , 5,	8.8	3
254	Enhanced Optical Properties and Stability of CsPbBr3 Nanocrystals Through Nickel Doping. <i>Advanced Functional Materials</i> , 2021 , 31, 2102770	15.6	20
253	Chemical structure of a novel heteroglycan polysaccharide isolated from the biomass of <i>Ophiocordyceps Sobolifera</i> . <i>Journal of Molecular Structure</i> , 2021 , 1232, 129986	3.4	2
252	Photo-assisted low temperature crystallization of solution-derived LiCoO2 thin film. <i>Materials Research Bulletin</i> , 2021 , 138, 111241	5.1	3
251	Immunoregulation of Macrophages by Controlling Winding and Unwinding of Nanohelical Ligands. <i>Advanced Functional Materials</i> , 2021 , 31, 2103409	15.6	10
250	C-doped SnO2 nanostructure/MoS2/p-Si electrodes for visible light-driven photoelectrochemical hydrogen evolution reaction. <i>International Journal of Energy Research</i> , 2021 , 45, 18201-18211	4.5	2
249	Fabrication of Biocompatible Polycaprolactone/Hydroxyapatite Composite Filaments for the FDM 3D Printing of Bone Scaffolds. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6351	2.6	8
248	Core-shell architecture of NiSe2 nanoparticles@nitrogen-doped carbon for hydrogen evolution reaction in acidic and alkaline media. <i>International Journal of Energy Research</i> , 2021 , 45, 20463	4.5	4
247	Ligand-Assisted Sulfide Surface Treatment of CsPbI3 Perovskite Quantum Dots to Increase Photoluminescence and Recovery. <i>ACS Photonics</i> , 2021 , 8, 1979-1987	6.3	10
246	Grain Boundaries Boost Oxygen Evolution Reaction in NiFe Electrocatalysts.. <i>Small Methods</i> , 2021 , 5, e2000755	12.8	7
245	Dendritic gold-supported iridium/iridium oxide ultra-low loading electrodes for high-performance proton exchange membrane water electrolyzer. <i>Applied Catalysis B: Environmental</i> , 2021 , 283, 119596	21.8	18

244	Metal-organic framework-derived MoS _x composites as efficient electrocatalysts for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2021 , 852, 156952	5.7	21
243	Synthesis of atomically thin alloyed molybdenum-tungsten disulfides thin films as hole transport layers in organic light-emitting diodes. <i>Applied Surface Science</i> , 2021 , 541, 148529	6.7	2
242	Recent advances in asphaltene transformation in heavy oil hydroprocessing: Progress, challenges, and future perspectives. <i>Fuel Processing Technology</i> , 2021 , 213, 106681	7.2	8
241	Synthesis of MoS _x /Ni-metal-organic framework-74 composites as efficient electrocatalysts for hydrogen evolution reactions. <i>International Journal of Energy Research</i> , 2021 , 45, 9638-9647	4.5	10
240	Scalable ultrarobust thermoconductive nonflammable bioinspired papers of graphene nanoplatelet crosslinked aramid nanofibers for thermal management and electromagnetic shielding. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 8527-8540	13	13
239	Highly stable electrochromic cells based on amorphous tungsten oxides prepared using a solution-annealing process. <i>International Journal of Energy Research</i> , 2021 , 45, 8061-8072	4.5	3
238	Recent development of high-performance photocatalysts for N ₂ fixation: A review. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104997	6.8	11
237	Anti-icing performance on aluminum surfaces and proposed model for freezing time calculation. <i>Scientific Reports</i> , 2021 , 11, 3641	4.9	9
236	Remote Switching of Elastic Movement of Decorated Ligand Nanostructures Controls the Adhesion-Regulated Polarization of Host Macrophages. <i>Advanced Functional Materials</i> , 2021 , 31, 2008698	15.6	4
235	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	5.5	14
234	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	14.7	8
233	Activity and stability of Ir-based gas diffusion electrode for proton exchange membrane water electrolyzer. <i>Chemical Engineering Journal</i> , 2021 , 420, 127696	14.7	4
232	Advances and recent trends in cobalt-based cocatalysts for solar-to-fuel conversion. <i>Applied Materials Today</i> , 2021 , 24, 101074	6.6	11
231	Metal salt-modified biochars derived from agro-waste for effective congo red dye removal. <i>Environmental Research</i> , 2021 , 200, 111492	7.9	9
230	Prussian blue-based nanostructured materials: Catalytic applications for environmental remediation and energy conversion. <i>Molecular Catalysis</i> , 2021 , 514, 111835	3.3	8
229	WS-WC-WO nano-hollow spheres as an efficient and durable catalyst for hydrogen evolution reaction. <i>Nano Convergence</i> , 2021 , 8, 28	9.2	1
228	A roadmap towards the development of superior photocatalysts for solar- driven CO ₂ -to-fuels production. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 148, 111298	16.2	13
227	ZnS-based quantum dots as photocatalysts for water purification. <i>Journal of Water Process Engineering</i> , 2021 , 43, 102217	6.7	10

226	Polymer incorporated magnetic nanoparticles: Applications for magneto-responsive targeted drug delivery. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021 , 272, 115358	3.1	13
225	Stable and multicolored electrochromic device based on polyaniline-tungsten oxide hybrid thin film. <i>Journal of Alloys and Compounds</i> , 2021 , 882, 160718	5.7	4
224	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	7.1	10
223	The emerging covalent organic frameworks (COFs) for solar-driven fuels production. <i>Coordination Chemistry Reviews</i> , 2021 , 446, 214117	23.2	23
222	All-Solution-Processed BiVO ₄ /TiO ₂ Photoanode with NiCo ₂ O ₄ Nanofiber Cocatalyst for Enhanced Solar Water Oxidation. <i>ACS Applied Energy Materials</i> , 2020 , 3, 5646-5656	6.1	11
221	Submerged photocatalytic membrane reactor with suspended and immobilized N-doped TiO ₂ under visible irradiation for diclofenac removal from wastewater. <i>Chemical Engineering Research and Design</i> , 2020 , 142, 229-237	5.5	22
220	Lead-free all-inorganic halide perovskite quantum dots: review and outlook. <i>Journal of the Korean Ceramic Society</i> , 2020 , 57, 455-479	2.2	25
219	Selected Electrochemical Properties of 4,4P((1E,1E)-(1,2,4-Thiadiazole-3,5-diyl)bis(azaneylylidene))bis(methaneylylidene))bis(-,di-p-tolylaniline) _{3,5} towards Perovskite Solar Cells with 14.4% Efficiency. <i>Materials</i> , 2020 , 13,		6
218	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	2.2	14
217	Photocatalytic NO _x abatement: Recent advances and emerging trends in the development of photocatalysts. <i>Journal of Cleaner Production</i> , 2020 , 270, 121912	10.3	36
216	Recent Advances in the Aptamer-Based Electrochemical Biosensors for Detecting Aflatoxin B1 and Its Pertinent Metabolite Aflatoxin M1. <i>Sensors</i> , 2020 , 20,	3.8	16
215	Recent Advances in Electrochemical Sensors and Biosensors for Detecting Bisphenol A. <i>Sensors</i> , 2020 , 20,	3.8	28
214	Photoelectrochemical Reduction of CO ₂ to Syngas by Reduced Ag Catalysts on Si Photocathodes. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3487	2.6	6
213	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	6.2	17
212	Graphene-based catalysts for electrochemical carbon dioxide reduction 2020 , 2, 158-175		30
211	Micro-nanoporous MoO ₂ @CoMo heterostructure catalyst for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118895	21.8	40
210	Novel Architecture Titanium Carbide (TiCT) MXene Cocatalysts toward Photocatalytic Hydrogen Production: A Mini-Review. <i>Nanomaterials</i> , 2020 , 10,	5.4	63
209	Strategy for controlling the morphology and work function of W ₂ C/WS ₂ nanoflowers. <i>Journal of Alloys and Compounds</i> , 2020 , 829, 154582	5.7	8

208	Grid-Connected Photovoltaic Systems with Single-Axis Sun Tracker: Case Study for Central Vietnam. <i>Energies</i> , 2020 , 13, 1457	3.1	6
207	Graphene doping for electrode application 2020 , 59-72		
206	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	14.7	55
205	Enhanced visible photocatalytic degradation of diclofenac over N-doped TiO ₂ assisted with H ₂ O ₂ : A kinetic and pathway study. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 8361-8371	5.9	18
204	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	14.3	38
203	Novel Exopolysaccharide Produced from Fermented Bamboo Shoot-Isolated. <i>Polymers</i> , 2020 , 12,	4.5	3
202	Quasi-2D halide perovskites for resistive switching devices with ON/OFF ratios above 10 ⁹ . <i>NPG Asia Materials</i> , 2020 , 12,	10.3	37
201	Recent Advances in TiO ₂ -Based Photocatalysts for Reduction of CO to Fuels. <i>Nanomaterials</i> , 2020 , 10,	5.4	65
200	Graphene-based buffer layers for light-emitting diodes 2020 , 99-116		
199	Recent Advances in Selective Photo-Epoxidation of Propylene: A Review. <i>Catalysts</i> , 2020 , 10, 87	4	7
198	Hierarchical molybdenum disulfide on carbon nanotube-reduced graphene oxide composite paper as efficient catalysts for hydrogen evolution reaction. <i>Journal of Alloys and Compounds</i> , 2020 , 823, 153897	5.7	19
197	Graphene-mediated enhanced Raman scattering and coherent light lasing from CsPbI ₃ perovskite nanorods. <i>Nano Energy</i> , 2020 , 70, 104497	17.1	2
196	Effect of lead thiocyanate ions on performance of tin-based perovskite solar cells. <i>Journal of Power Sources</i> , 2020 , 458, 228067	8.9	9
195	Advances in Designing Au Nanoparticles for Catalytic Epoxidation of Propylene with H ₂ and O ₂ . <i>Catalysts</i> , 2020 , 10, 442	4	6
194	(Invited) (NH ₄) ₂ WS ₄ precursors for Electrochromic Devices. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-02, 2073-2073	0	
193	Compressive Strength Evaluation of Ordinary Portland Cement Mortar Blended with Hydrogen Nano-Bubble Water and Graphene. <i>Journal of Nanoscience and Nanotechnology</i> , 2020 , 20, 647-652	1.3	5
192	Review of Perovskite Solar Cells Using Metal-Organic Framework Materials. <i>Ceramist</i> , 2020 , 23, 358-388	0.3	1
191	Integrated farming system producing zero emissions and sustainable livelihood for small-scale cattle farms: Case study in the Mekong Delta, Vietnam. <i>Environmental Pollution</i> , 2020 , 265, 114853	9.3	4

190	Halide perovskite photocatalysis: progress and perspectives. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 2579	3.5	25
189	Two-dimensional materials and metal-organic frameworks for the CO ₂ reduction reaction. <i>Materials Today Advances</i> , 2020 , 5, 100038	7.4	29
188	Facile synthesis of WS ₂ hollow spheres and their hydrogen evolution reaction performance. <i>Applied Surface Science</i> , 2020 , 505, 144574	6.7	33
187	Recent progress in TiO ₂ -based photocatalysts for hydrogen evolution reaction: A review. <i>Arabian Journal of Chemistry</i> , 2020 , 13, 3653-3671	5.9	58
186	SnO ₂ @WS ₂ /p-Si Heterostructure Photocathode for Photoelectrochemical Hydrogen Production. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 647-652	3.8	16
185	Amorphous Cobalt Oxide Nanowalls as Catalyst and Protection Layers on n-Type Silicon for Efficient Photoelectrochemical Water Oxidation. <i>ACS Catalysis</i> , 2020 , 10, 420-429	13.1	18
184	Si-Based Water Oxidation Photoanodes Conjugated with Earth-Abundant Transition Metal-Based Catalysts 2020 , 2, 107-126		18
183	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. <i>Sensors and Actuators B: Chemical</i> , 2020 , 325, 128821	8.5	20
182	Performance Correlation of Self-Supported Electrodes in Half-Cell and Single-Cell Tests for Water Electrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15815-15821	8.3	3
181	In situ formation of graphene/metal oxide composites for high-energy microsupercapacitors. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	14
180	Design of Zeolite-Covalent Organic Frameworks for Methane Storage. <i>Materials</i> , 2020 , 13,	3.5	1
179	Recent Advances in the Electrochemical Sensing of Venlafaxine: An Antidepressant Drug and Environmental Contaminant. <i>Sensors</i> , 2020 , 20,	3.8	10
178	Perovskite oxide-based photocatalysts for solar-driven hydrogen production: Progress and perspectives. <i>Solar Energy</i> , 2020 , 211, 584-599	6.8	35
177	Lead-Free Dual-Phase Halide Perovskites for Preconditioned Conducting-Bridge Memory. <i>Small</i> , 2020 , 16, e2003225	11	14
176	Metal-Organic Framework Materials for Perovskite Solar Cells. <i>Polymers</i> , 2020 , 12,	4.5	22
175	Hydrogen evolving electrode with low Pt loading fabricated by repeated pulse electrodeposition. <i>Korean Journal of Chemical Engineering</i> , 2020 , 37, 1340-1345	2.8	3
174	Decoding the Capability of W1 Isolated from Soybean Whey in Producing an Exopolysaccharide. <i>ACS Omega</i> , 2020 , 5, 33387-33394	3.9	2
173	2D and Quasi-2D Halide Perovskites: Applications and Progress. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 1900435	2.5	23

172	Facile synthesis of W ₂ C@WS ₂ alloy nanoflowers and their hydrogen generation performance. <i>Applied Surface Science</i> , 2020 , 504, 144389	6.7	27
171	Dual-Phase All-Inorganic Cesium Halide Perovskites for Conducting-Bridge Memory-Based Artificial Synapses. <i>Advanced Functional Materials</i> , 2019 , 29, 1906686	15.6	39
170	Direct synthesis of two-dimensional MoS ₂ on p-type Si and application to solar hydrogen production. <i>NPG Asia Materials</i> , 2019 , 11,	10.3	37
169	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	9.5	76
168	Halide perovskites for resistive random-access memories. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5226-5234	7.5	61
167	Influence of MoS ₂ Nanosheet Size on Performance of Drilling Mud. <i>Polymers</i> , 2019 , 11,	4.5	7
166	CdSe Quantum Dots Doped WS ₂ Nanoflowers for Enhanced Solar Hydrogen Production. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2019 , 216, 1800853	1.6	12
165	Synthesis and enhanced photocatalytic activity of nitrogen-doped triphasic TiO ₂ nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2019 , 377, 92-100	4.7	15
164	Transition metal dichalcogenide-based composites for hydrogen production. <i>Functional Composites and Structures</i> , 2019 , 1, 012001	3.5	8
163	NO ₂ sensing properties of porous Au-incorporated tungsten oxide thin films prepared by solution process. <i>Sensors and Actuators B: Chemical</i> , 2019 , 286, 512-520	8.5	26
162	SnS Nanograins on Porous SiO ₂ Nanorods Template for Highly Sensitive NO Sensor at Room Temperature with Excellent Recovery. <i>ACS Sensors</i> , 2019 , 4, 678-686	9.2	47
161	Chemoresistive materials for electronic nose: Progress, perspectives, and challenges. <i>Information Materials</i> , 2019 , 1, 289-316	23.1	71
160	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	9.5	39
159	Nanocomposite Synthesis of Nanodiamond and Molybdenum Disulfide. <i>Nanomaterials</i> , 2019 , 9,	5.4	7
158	Fabrication of a WS ₂ /p-Si Heterostructure Photocathode Using Direct Hybrid Thermolysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29910-29916	9.5	23
157	Recent Progress in Carbon-Based Buffer Layers for Polymer Solar Cells. <i>Polymers</i> , 2019 , 11,	4.5	10
156	Silk Fibroin-Based Biomaterials for Biomedical Applications: A Review. <i>Polymers</i> , 2019 , 11,	4.5	121
155	Ni ₃ Se ₄ @MoSe ₂ Composites for Hydrogen Evolution Reaction. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5035	2.6	18

154	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	13	87
153	Tuning of Graphene Work Function by Alkyl Chain Length in Amine-Based Compounds. <i>Electronic Materials Letters</i> , 2019 , 15, 141-148	2.9	3
152	Alkaline Hydrothermal Synthesis, Characterization, and Photocatalytic Activity of TiO ₂ Nanostructures: The Effect of Initial TiO ₂ Phase. <i>Journal of Nanoscience and Nanotechnology</i> , 2019 , 19, 1511-1519	1.3	3
151	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	13	84
150	Flexible active-matrix organic light-emitting diode display enabled by MoS thin-film transistor. <i>Science Advances</i> , 2018 , 4, eaas8721	14.3	116
149	Low Temperature Solution-Processable Cesium Lead Bromide Microcrystals for Light Conversion. <i>Crystal Growth and Design</i> , 2018 , 18, 3161-3166	3.5	10
148	Ammonia-Sensing Using a Composite of Graphene Oxide and Conducting Polymer. <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1800037	2.5	13
147	Low-dimensional halide perovskites: review and issues. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2189-2209	27.09	113
146	Halide Perovskites for Applications beyond Photovoltaics. <i>Small Methods</i> , 2018 , 2, 1700310	12.8	63
145	Air-Stable Cesium Lead Iodide Perovskite for Ultra-Low Operating Voltage Resistive Switching. <i>Advanced Functional Materials</i> , 2018 , 28, 1705783	15.6	130
144	Facile synthesis of CsPbBr ₃ /PbSe composite clusters. <i>Science and Technology of Advanced Materials</i> , 2018 , 19, 10-17	7.1	19
143	Diamine-cored tetrastilbene compounds as solution-processable hole transport materials for stable organic light emitting diodes. <i>Dyes and Pigments</i> , 2018 , 149, 415-421	4.6	3
142	Production and properties of tooth-colored yttria stabilized zirconia ceramics for dental applications. <i>Ceramics International</i> , 2018 , 44, 2413-2418	5.1	12
141	A thorough study on electrochromic properties of metal doped tungsten trioxide film prepared by a facile solution process. <i>Electrochimica Acta</i> , 2018 , 283, 1195-1202	6.7	13
140	Effect of Ammonium Halide Additives on the Performance of Methyl Amine Based Perovskite Solar Cells. <i>Materials</i> , 2018 , 11,	3.5	10
139	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	9.5	58
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	17.1	22
137	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	8.5	81

136	Sliced graphene foam films for dual-functional wearable strain sensors and switches. <i>Nanoscale Horizons</i> , 2018 , 3, 35-44	10.8	60
135	Tungsten Trioxide Doped with CdSe Quantum Dots for Smart Windows. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43785-43791	9.5	11
134	Recent Advances in Memristive Materials for Artificial Synapses. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800457	6.8	102
133	MoSe ₂ /rGO Composite Catalyst for Hydrogen Evolution Reaction. <i>Polymers</i> , 2018 , 10,	4.5	20
132	Halide Perovskite Quantum Dots for Light-Emitting Diodes: Properties, Synthesis, Applications, and Outlooks. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800335	6.4	32
131	Surface extension of MeS ₂ (Me=Mo or W) nanosheets by embedding MeS _x for hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2018 , 292, 136-141	6.7	26
130	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	5.1	47
129	Ammonia-Sensing Using a Composite of Graphene Oxide and Conducting Polymer (Phys. Status Solidi RRL 5/2018). <i>Physica Status Solidi - Rapid Research Letters</i> , 2018 , 12, 1870317	2.5	5
128	Organic-Inorganic Hybrid Halide Perovskites for Memories, Transistors, and Artificial Synapses. <i>Advanced Materials</i> , 2018 , 30, e1704002	24	149
127	Role of Additives on the Performance of CsPbI ₃ Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 15903-15910	3.8	18
126	Recent Advances toward High-Efficiency Halide Perovskite Light-Emitting Diodes: Review and Perspective. <i>Small Methods</i> , 2018 , 2, 1700419	12.8	145
125	Microscopic Evidence for Strong Interaction between Pd and Graphene Oxide that Results in Metal-Decoration-Induced Reduction of Graphene Oxide. <i>Advanced Materials</i> , 2017 , 29, 1605929	24	23
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