

Soo Young Kim

List of Publications by Citations

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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	Nanoscale tunable reduction of graphene oxide for graphene electronics. <i>Science</i> , 2010 , 328, 1373-6	33.3	584
278	Self-Activated Transparent All-Graphene Gas Sensor with Endurance to Humidity and Mechanical Bending. <i>ACS Nano</i> , 2015 , 9, 10453-60	16.7	220
277	Organolead Halide Perovskites for Low Operating Voltage Multilevel Resistive Switching. <i>Advanced Materials</i> , 2016 , 28, 6562-7	24	219
276	Increased Work Function in Few-Layer Graphene Sheets via Metal Chloride Doping. <i>Advanced Functional Materials</i> , 2012 , 22, 4724-4731	15.6	212
275	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	8.4	163
274	Wafer-scale transferable molybdenum disulfide thin-film catalysts for photoelectrochemical hydrogen production. <i>Energy and Environmental Science</i> , 2016 , 9, 2240-2248	35.4	150
273	Organic-Inorganic Hybrid Halide Perovskites for Memories, Transistors, and Artificial Synapses. <i>Advanced Materials</i> , 2018 , 30, e1704002	24	149
272	Recent Advances toward High-Efficiency Halide Perovskite Light-Emitting Diodes: Review and Perspective. <i>Small Methods</i> , 2018 , 2, 1700419	12.8	145
271	Role of oxygen functional groups in graphene oxide for reversible room-temperature NO ₂ sensing. <i>Carbon</i> , 2015 , 91, 178-187	10.4	138
270	Air-Stable Cesium Lead Iodide Perovskite for Ultra-Low Operating Voltage Resistive Switching. <i>Advanced Functional Materials</i> , 2018 , 28, 1705783	15.6	130
269	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, 3520-30	5.4	126
268	Silk Fibroin-Based Biomaterials for Biomedical Applications: A Review. <i>Polymers</i> , 2019 , 11,	4.5	121
267	Flexible active-matrix organic light-emitting diode display enabled by MoS thin-film transistor. <i>Science Advances</i> , 2018 , 4, eaas8721	14.3	116
266	Size-Dependent Properties of Two-Dimensional MoS ₂ and WS ₂ . <i>Journal of Physical Chemistry C</i> , 2016 , 120, 10078-10085	3.8	115
265	Low-dimensional halide perovskites: review and issues. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 2189-2209	2.9	113
264	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	9.5	109
263	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	2.5	108

262	Recent Advances in Memristive Materials for Artificial Synapses. <i>Advanced Materials Technologies</i> , 2018 , 3, 1800457	6.8	102
261	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	15.6	97
260	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
259	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
258	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
257	Two-dimensional transition metal dichalcogenide nanomaterials for solar water splitting. <i>Electronic Materials Letters</i> , 2015 , 11, 323-335	2.9	80
256	Work-Function Decrease of Graphene Sheet Using Alkali Metal Carbonates. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26586-26591	3.8	80
255	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	8.9	78
254	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	3.4	77
253	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
252	Synthesis of atomically thin transition metal disulfides for charge transport layers in optoelectronic devices. <i>ACS Nano</i> , 2015 , 9, 4146-55	16.7	76
251	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	3.8	76
250	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, 13123-8	3.6	76
249	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	3.4	73
248	Chemoresistive materials for electronic nose: Progress, perspectives, and challenges. <i>Information Materials</i> , 2019 , 1, 289-316	23.1	71
247	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	15.6	69
246	Two-Dimensional Transition Metal Disulfides for Chemoresistive Gas Sensing: Perspective and Challenges. <i>Chemosensors</i> , 2017 , 5, 15	4	66
245	Recent Advances in TiO ₂ -Based Photocatalysts for Reduction of CO to Fuels. <i>Nanomaterials</i> , 2020 , 10,	5.4	65

244	Novel Architecture Titanium Carbide (TiCT) MXene Cocatalysts toward Photocatalytic Hydrogen Production: A Mini-Review. <i>Nanomaterials</i> , 2020 , 10,	5.4	63
243	Halide Perovskites for Applications beyond Photovoltaics. <i>Small Methods</i> , 2018 , 2, 1700310	12.8	63
242	Use of silane-functionalized graphene oxide in organic photovoltaic cells and organic light-emitting diodes. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 9369-74	3.6	62
241	Mechanism for Ohmic contact formation of oxidized Ni/Au on p-type GaN. <i>Journal of Applied Physics</i> , 2003 , 94, 1748-1752	2.5	62
240	Cesium lead iodide solar cells controlled by annealing temperature. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6257-6263	3.6	61
239	Halide perovskites for resistive random-access memories. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5226-5234	6.1	61
238	Ultrasensitive reversible oxygen sensing by using liquid-exfoliated MoS ₂ nanoparticles. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6070-6076	13	61
237	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	6.4	60
236	Black Phosphorus: Critical Review and Potential for Water Splitting Photocatalyst. <i>Nanomaterials</i> , 2016 , 6,	5.4	60
235	Sliced graphene foam films for dual-functional wearable strain sensors and switches. <i>Nanoscale Horizons</i> , 2018 , 3, 35-44	10.8	60
234	Synthesis of Numerous Edge Sites in MoS via SiO Nanorods Platform for Highly Sensitive Gas Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31594-31602	9.5	58
233	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
232	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	13	57
231	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
230	Superhydrophobic and antireflective nanoglass-coated glass for high performance solar cells. <i>Nano Research</i> , 2014 , 7, 670-678	10	52
229	Polarized Light-Emitting Diodes Based on Patterned MoS Nanosheet Hole Transport Layer. <i>Advanced Materials</i> , 2017 , 29, 1702598	24	52
228	Effect of anions in Au complexes on doping and degradation of graphene. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 2463	7.1	48
227	SnS Nanograins on Porous SiO Nanorods Template for Highly Sensitive NO Sensor at Room Temperature with Excellent Recovery. <i>ACS Sensors</i> , 2019 , 4, 678-686	9.2	47

226	UV/ozone-treated WS ₂ hole-extraction layer in organic photovoltaic cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 8, 390-394	2.5	47
225	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
224	Microlitre scale solution processing for controlled, rapid fabrication of chemically derived graphene thin films. <i>Journal of Materials Chemistry</i> , 2012 , 22, 3606		46
223	Graphene oxide/PEDOT:PSS and reduced graphene oxide/PEDOT:PSS hole extraction layers in organic photovoltaic cells. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012 , 209, 1363-1368	1.6	46
222	Low-resistance Ti/Al ohmic contact on undoped ZnO. <i>Journal of Electronic Materials</i> , 2002 , 31, 868-871	1.9	43
221	Highly efficient organic light-emitting diodes with hole injection layer of transition metal oxides. <i>Journal of Applied Physics</i> , 2005 , 98, 093707	2.5	41
220	Micro-nanoporous MoO ₂ @CoMo heterostructure catalyst for hydrogen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2020 , 270, 118895	21.8	40
219	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
218	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
217	Dual use of tantalum disulfides as hole and electron extraction layers in organic photovoltaic cells. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 25468-72	3.6	39
216	Recent advances in the application of two-dimensional materials as charge transport layers in organic and perovskite solar cells. <i>FlatChem</i> , 2017 , 2, 54-66	5.1	38
215	Full-color active-matrix organic light-emitting diode display on human skin based on a large-area MoS backplane. <i>Science Advances</i> , 2020 , 6, eabb5898	14.3	38
214	Solution-processed quantum dot light-emitting diodes with PANI:PSS hole-transport interlayers. <i>Organic Electronics</i> , 2015 , 19, 131-139	3.5	38
213	Effect of an indium-tin-oxide overlayer on transparent Ni/Au ohmic contact on p-type GaN. <i>Applied Physics Letters</i> , 2003 , 82, 61-63	3.4	38
212	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
211	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
210	Extension of stability in organic photovoltaic cells using UV/ozone-treated graphene sheets. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 148-154	6.4	37
209	Dark spot formation mechanism in organic light emitting diodes. <i>Applied Physics Letters</i> , 2006 , 89, 1321084	3.4	37

208	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
207	Perovskite oxide-based photocatalysts for solar-driven hydrogen production: Progress and perspectives. <i>Solar Energy</i> , 2020 , 211, 584-599	6.8	35
206	Structural Investigation of Cesium Lead Halide Perovskites for High-Efficiency Quantum Dot Light-Emitting Diodes. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 4140-4147	6.4	33
205	Facile synthesis of WS ₂ hollow spheres and their hydrogen evolution reaction performance. <i>Applied Surface Science</i> , 2020 , 505, 144574	6.7	33
204	Facile Solution Synthesis of Tungsten Trioxide Doped with Nanocrystalline Molybdenum Trioxide for Electrochromic Devices. <i>Scientific Reports</i> , 2017 , 7, 13258	4.9	32
203	MoS ₂ -nanosheet/graphene-oxide composite hole injection layer in organic light-emitting diodes. <i>Electronic Materials Letters</i> , 2017 , 13, 344-350	2.9	32
202	Enhancement of physical properties of indium tin oxide deposited by super density arc plasma ion plating by O ₂ plasma treatment. <i>Solid-State Electronics</i> , 2008 , 52, 1-6	1.7	32
201	Halide Perovskite Quantum Dots for Light-Emitting Diodes: Properties, Synthesis, Applications, and Outlooks. <i>Advanced Electronic Materials</i> , 2018 , 4, 1800335	6.4	32
200	Graphene-based catalysts for electrochemical carbon dioxide reduction 2020 , 2, 158-175		30
199	Enhancement of hole injection using iridium-oxide-coated indium tin oxide anodes in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2005 , 86, 133504	3.4	29
198	Two-dimensional materials and metal-organic frameworks for the CO ₂ reduction reaction. <i>Materials Today Advances</i> , 2020 , 5, 100038	7.4	29
197	Recent Advances in Electrochemical Sensors and Biosensors for Detecting Bisphenol A. <i>Sensors</i> , 2020 , 20,	3.8	28
196	Role of Metal Cations in Alkali Metal Chloride Doped Graphene. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 8187-8193	3.8	27
195	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		27
194	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
193	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
192	Flexible organic light-emitting diodes using a laser lift-off method. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 2144	7.1	26
191	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

190	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
189	Halide perovskite photocatalysis: progress and perspectives. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 2579	3.5	25
188	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
187	Fabrication of a WS/p-Si Heterostructure Photocathode Using Direct Hybrid Thermolysis. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 29910-29916	9.5	23
186	Effect of magnesium oxide buffer layer on performance of inverted top-emitting organic light-emitting diodes. <i>Journal of Applied Physics</i> , 2006 , 100, 064106	2.5	23
185	Pulsed-Electromagnetic-Field-Assisted Reduced Graphene Oxide Substrates for Multidifferentiation of Human Mesenchymal Stem Cells. <i>Advanced Healthcare Materials</i> , 2016 , 5, 2069-79 ^{10.1}		23
184	Bottom-Up Synthesis of MeSx Nanodots for Optoelectronic Device Applications. <i>Advanced Optical Materials</i> , 2016 , 4, 1796-1804	8.1	23
183	2D and Quasi-2D Halide Perovskites: Applications and Progress. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020 , 14, 1900435	2.5	23
182	The emerging covalent organic frameworks (COFs) for solar-driven fuels production. <i>Coordination Chemistry Reviews</i> , 2021 , 446, 214117	23.2	23
181	Tungsten disulfide thin film/p-type Si heterojunction photocathode for efficient photochemical hydrogen production. <i>MRS Communications</i> , 2017 , 7, 272-279	2.7	22
180	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
179	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
178	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	3.8	22
177	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	7.1	22
176	MoS ₂ Nanosheets Exfoliated by Sonication and Their Application in Organic Photovoltaic Cells. <i>Science of Advanced Materials</i> , 2015 , 7, 700-705	2.3	22
175	Metal-Organic Framework Materials for Perovskite Solar Cells. <i>Polymers</i> , 2020 , 12,	4.5	22
174	Effect of thin iridium oxide on the formation of interface dipole in organic light-emitting diodes. <i>Applied Physics Letters</i> , 2005 , 87, 232105	3.4	21
173	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

172	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, 3282-7	1.3	20
171	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
170	Enhanced Optical Properties and Stability of CsPbBr ₃ Nanocrystals Through Nickel Doping. <i>Advanced Functional Materials</i> , 2021 , 31, 2102770	15.6	20
169	MoSe ₂ /rGO Composite Catalyst for Hydrogen Evolution Reaction. <i>Polymers</i> , 2018 , 10,	4.5	20
168	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
167	Facile synthesis of CsPbBr ₃ /PbSe composite clusters. <i>Science and Technology of Advanced Materials</i> , 2018 , 19, 10-17	7.1	19
166	Fluoropolymer-assisted graphene electrode for organic light-emitting diodes. <i>Organic Electronics</i> , 2014 , 15, 3154-3161	3.5	19
165	Tailoring catalytic activities of transition metal disulfides for water splitting. <i>FlatChem</i> , 2017 , 4, 68-80	5.1	19
164	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
163	Reduced Graphite Oxide-Indium Tin Oxide Hybrid Materials for use as a Transparent Electrode. <i>Journal of the Electrochemical Society</i> , 2011 , 158, J231	3.9	18
162	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
161	Si-Based Water Oxidation Photoanodes Conjugated with Earth-Abundant Transition Metal-Based Catalysts 2020 , 2, 107-126		18
160	Ni ₃ Se ₄ @MoSe ₂ Composites for Hydrogen Evolution Reaction. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 5035	2.6	18
159	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
158	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
157	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
156	Effect of transition-metal chlorides on graphene properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1794-1800	1.6	17
155	Ion beam irradiation of few-layer graphene and its application to liquid crystal cells. <i>Carbon</i> , 2014 , 67, 352-359	10.4	17

154	Change of interface dipole energy with interfacial layer thickness and O ₂ plasma treatment in metal/organic interface. <i>Applied Physics Letters</i> , 2007 , 90, 183508	3.4	17
153	Highly photoresponsive and wavelength-selective circularly-polarized-light detector based on metal-oxides hetero-chiral thin film. <i>Scientific Reports</i> , 2016 , 6, 19580	4.9	17
152	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
151	Nanocomposites of Molybdenum Disulfide/Methoxy Polyethylene Glycol-co-Polypyrrole for Amplified Photoacoustic Signal. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29213-29219	9.5	16
150	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
149	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
148	Solution-processed high-performance photodetector based on a new triisopropylsilylethynyl anthracene derivative. <i>Organic Electronics</i> , 2014 , 15, 1856-1861	3.5	15
147	Effect of ultraviolet-B zone on ITO/P3HT interface for PEDOT:PSS-free polymer solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2013 , 109, 240-245	6.4	15
146	High-performance organic light emitting diodes fabricated with a ruthenium oxide hole injection layer. <i>Metals and Materials International</i> , 2005 , 11, 411-414	2.4	15
145	Challenge beyond Graphene: Metal Oxide/Graphene/Metal Oxide Electrodes for Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 12932-9	9.5	15
144	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
143	In situ formation of graphene/metal oxide composites for high-energy microsupercapacitors. <i>NPG Asia Materials</i> , 2020 , 12,	10.3	14
142	Lead-Free Dual-Phase Halide Perovskites for Preconditioned Conducting-Bridge Memory. <i>Small</i> , 2020 , 16, e2003225	11	14
141	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
140	(NH ₄) ₂ WS ₄ precursor as a hole-injection layer in organic optoelectronic devices. <i>Chemical Engineering Journal</i> , 2016 , 284, 285-293	14.7	13
139	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
138	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
137	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

136	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
135	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
134	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
133	Eco-friendly graphene synthesis on Cu foil electroplated by reusing Cu etchants. <i>Scientific Reports</i> , 2014 , 4, 4830	4.9	12
132	Production and properties of tooth-colored yttria stabilized zirconia ceramics for dental applications. <i>Ceramics International</i> , 2018 , 44, 2413-2418	5.1	12
131	Correlation Between Charge Injection and Charge Balance in Organic Light Emitting Diodes Using LiF and IrO _x Interlayers. <i>Journal of the Electrochemical Society</i> , 2009 , 156, J57	3.9	12
130	Poly(3,4 ethylenedioxythiophene): Poly(styrenesulfonate)/Iron(III) Porphyrin Supported on S and N Co-Doped Graphene Quantum Dots as a Hole Transport Layer in Polymer Solar Cells. <i>Science of Advanced Materials</i> , 2017 , 9, 1616-1625	2.3	12
129	Two-Dimensional Metal-Organic Frameworks and Covalent-Organic Frameworks for Electrocatalysis: Distinct Merits by the Reduced Dimension. <i>Advanced Energy Materials</i> , 2003 , 990	21.8	12
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127	Effect of interfacial layer thickness on the formation of interface dipole in metal/tris(8-hydroxyquinoline) aluminum interface. <i>Organic Electronics</i> , 2008 , 9, 678-686	3.5	11
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