

Joondong 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.

236
papers

3,776
citations

33
h-index

47
g-index

248
ext. papers

4,543
ext. citations

5
avg, IF

6.17
L-index

#	Paper	IF	Citations
236	Large-Scale Transparent Photovoltaics for a Sustainable Energy Future: Review of Inorganic Transparent Photovoltaics. <i>Applied Science and Convergence Technology</i> , 2022 , 31, 1-8	0.8	0
235	Carrier transport and working mechanism of transparent photovoltaic cells. <i>Applied Materials Today</i> , 2022 , 26, 101344	6.6	1
234	Transparent and all oxide-based highly responsive n-n heterojunction broadband photodetector. <i>Journal of Alloys and Compounds</i> , 2022 , 898, 162788	5.7	2
233	All-oxide-based and metallic electrode-free artificial synapses for transparent neuromorphic computing. <i>Materials Today Chemistry</i> , 2022 , 23, 100681	6.2	1
232	WS ₂ /p-Si-based photocathodes with high activity originated from the unique vertical geometry of the 2D WS ₂ nanoplatelets. <i>FlatChem</i> , 2022 , 33, 100361	5.1	0
231	Transparent photovoltaic skin for artificial thermoreceptor and nociceptor memory. <i>Nano Energy</i> , 2021 , 106676	17.1	6
230	Self-powered transparent photodetectors for broadband applications. <i>Surfaces and Interfaces</i> , 2021 , 23, 100934	4.1	4
229	Effect of TiO ₂ layer thickness of TiO ₂ /NiO transparent photovoltaics. <i>Progress in Photovoltaics: Research and Applications</i> , 2021 , 29, 943-952	6.8	6
228	Photovoltaic-driven transparent heater of ZnO-coated silver nanowire networks for self-functional remote power system. <i>Journal of Power Sources</i> , 2021 , 491, 229578	8.9	10
227	Multi-stacked transparent-electrode for transparent photovoltaics. <i>Materials Letters</i> , 2021 , 289, 129390	3.3	2
226	Optimizing Catalyst Loading Ratio between the Anode and Cathode for Ultralow Catalyst Usage in Polymer Electrolyte Membrane Fuel Cell. <i>Energy Technology</i> , 2021 , 9, 2100113	3.5	1
225	Bifacial Color-Tunable Transparent Photovoltaics for Application as Building-Integrated Photovoltaics. <i>Solar Rrl</i> , 2021 , 5, 2100162	7.1	4
224	Over 30% efficiency bifacial 4-terminal perovskite-heterojunction silicon tandem solar cells with spectral albedo. <i>Scientific Reports</i> , 2021 , 11, 15524	4.9	10
223	Transparent photovoltaic cells and self-powered photodetectors by TiO ₂ /NiO heterojunction. <i>Journal of Power Sources</i> , 2021 , 481, 228865	8.9	31
222	Holey engineered 2D ZnO-nanosheets architecture for supersensitive ppm level H ₂ gas detection at room temperature. <i>Sensors and Actuators B: Chemical</i> , 2021 , 326, 128839	8.5	15
221	Application of rear-emitter silicon heterojunction solar cells with mitigation of the damage on the amorphous silicon by an atomic-layered ZnO. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 3912-3919	2.1	
220	Heterostructured plasmonic memristors with tunable opto-synaptic functionalities. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 2539-2549	7.1	9

219	Transparent Stacked Photoanodes with Efficient Light Management for Solar-Driven Photoelectrochemical Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 10181-10190	9.5	7
218	All-Metal Oxide Transparent Photovoltaic for High-Speed Binary UV Communication Window. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100478	6.4	1
217	Solvent and catalyst-free synthesis of In ₂ O ₃ octahedron using single-step thermal decomposition technique for NO ₂ detection. <i>Journal of Alloys and Compounds</i> , 2021 , 877, 160161	5.7	5
216	Role of substrate architecture and modelling on photocurrent and photovoltage in TiO ₂ /NiO transparent photovoltaic. <i>Materials Research Bulletin</i> , 2021 , 142, 111421	5.1	0
215	Active energy-controlling windows incorporating transparent photovoltaics and an integrated transparent heater. <i>Cell Reports Physical Science</i> , 2021 , 2, 100591	6.1	7
214	Transparent sustainable energy platform: Closed-loop energy chain of solar-electric-hydrogen by transparent photovoltaics, photo-electro-chemical cells and fuel system. <i>Nano Energy</i> , 2021 , 90, 106496	17.1	3
213	Transparent photovoltaic memory for neuromorphic device. <i>Nanoscale</i> , 2021 , 13, 5243-5250	7.7	7
212	Transparent Photovoltaics for Self-Powered Bioelectronics and Neuromorphic Applications.. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 12426-12436	6.4	1
211	Highly Transparent Bidirectional Transparent Photovoltaics for On-Site Power Generators.. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	2
210	Transparent Co ₃ O ₄ /ZnO photovoltaic broadband photodetector. <i>Materials Science in Semiconductor Processing</i> , 2020 , 117, 105192	4.3	14
209	High-performing self-driven ultraviolet photodetector by TiO ₂ /Co ₃ O ₄ photovoltaics. <i>Journal of Alloys and Compounds</i> , 2020 , 827, 154376	5.7	14
208	All-metal oxide transparent photodetector for broad responses. <i>Sensors and Actuators A: Physical</i> , 2020 , 303, 111835	3.9	12
207	2D layer-embedded transparent photovoltaics. <i>Nano Energy</i> , 2020 , 68, 104328	17.1	21
206	All-inorganic metal oxide transparent solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 217, 110708	8.4	7
205	Si-embedded metal oxide transparent solar cells. <i>Nano Energy</i> , 2020 , 77, 105090	17.1	17
204	High-Quality ITO/Al-ZnO/n-Si Heterostructures with Junction Engineering for Improved Photovoltaic Performance. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 5285	2.6	0
203	Neuromorphic Spatiotemporal Information Processing Using Neuro-Photodetector Systems. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 8358	2.6	0
202	Functional TiO ₂ interlayer for all-transparent metal-oxide photovoltaics. <i>Journal of Alloys and Compounds</i> , 2020 , 816, 152602	5.7	14

201	Growth of Wafer-Scale ReS with "Tunable" Geometry toward Electron Field-Emission Application. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35845-35852	9.5	10
200	Earth-Abundant Semiconductors Based Electric Power Window. <i>ECS Transactions</i> , 2019 , 92, 15-20	1	1
199	Persistent photoconductivity in Al-doped ZnO photoconductors under air, nitrogen and oxygen ambience: Role of oxygen vacancies induced DX centers. <i>Ceramics International</i> , 2019 , 45, 8561-8570	5.1	19
198	Broadband photoresponse data of transparent all-oxide photovoltaics of ZnO/NiO. <i>Data in Brief</i> , 2019 , 25, 104095	1.2	0
197	Transparent and flexible photonic artificial synapse with piezo-phototronic modulator: Versatile memory capability and higher order learning algorithm. <i>Nano Energy</i> , 2019 , 63, 103843	17.1	39
196	Functional interlayer of In ₂ O ₃ for transparent SnO ₂ /SnS ₂ heterojunction photodetector. <i>Sensors and Actuators A: Physical</i> , 2019 , 293, 215-221	3.9	15
195	Sonochemical functionalization of the low-dimensional surface oxide of Galinstan for heterostructured optoelectronic applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5584-5595	7.1	18
194	Transparent and Flexible In ₂ O ₃ Thin Film for Multilevel Nonvolatile Photomemory Programmed by Light. <i>ACS Applied Electronic Materials</i> , 2019 , 1, 437-443	4	8
193	A Highly Transparent Artificial Photonic Nociceptor. <i>Advanced Materials</i> , 2019 , 31, e1900021	24	63
192	Transparent all-oxide photovoltaics and broadband high-speed energy-efficient optoelectronics. <i>Solar Energy Materials and Solar Cells</i> , 2019 , 194, 148-158	6.4	18
191	Translucent Photodetector with Blended Nanowires-Metal Oxide Transparent Selective Electrode Utilizing Photovoltaic and Pyro-Phototronic Coupling Effect. <i>Small</i> , 2019 , 15, e1804346	11	19
190	All-Transparent Oxide Photovoltaics: AZO Embedded ZnO/NiO/AgNW Band Selective High-Speed Electric Power Window. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900348	6.4	19
189	A Transparent Photonic Artificial Visual Cortex. <i>Advanced Materials</i> , 2019 , 31, e1903095	24	38
188	Controllable digital resistive switching for artificial synapses and pavlovian learning algorithm. <i>Nanoscale</i> , 2019 , 11, 15596-15604	7.7	28
187	A transparent photovoltaic device based on Cu ₂ O/ZnO/AZO for see-through applications. <i>Materials Letters</i> , 2019 , 255, 126517	3.3	5
186	Vertically Aligned WS ₂ Layers for High-Performing Memristors and Artificial Synapses. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900467	6.4	40
185	See-through metal oxide frameworks for transparent photovoltaics and broadband photodetectors. <i>Nano Energy</i> , 2019 , 64, 103952	17.1	19
184	Enhancement in Performance of Transparent p-NiO/n-ZnO Heterojunction Ultrafast Self-Powered Photodetector via Pyro-Phototronic Effect. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900438	6.4	42

183	Switchable Two-Terminal Transparent Optoelectronic Devices Based on 2D Perovskite. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800662	6.4	16
182	Optical, electrical and photoresponse data of flexible and high-performing NiO/ZnO ultraviolet photodetector. <i>Data in Brief</i> , 2018 , 17, 520-525	1.2	7
181	Catalyst free single-step processes to grow crystalline MoO ₃ nanowires by reactive sputtering method. <i>Materials Science in Semiconductor Processing</i> , 2018 , 79, 40-45	4.3	2
180	Silver-Nanowire-Embedded Transparent Metal-Oxide Heterojunction Schottky Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 14292-14298	9.5	41
179	Metal-induced growth of crystal Si for low-cost Al:ZnO/Si heterojunction thin film photodetectors. <i>Materials Science in Semiconductor Processing</i> , 2018 , 82, 92-96	4.3	3
178	Reactive-sputtered transparent MoO ₃ film for high-performing infrared Si photoelectric devices. <i>Sensors and Actuators A: Physical</i> , 2018 , 271, 251-256	3.9	7
177	Optical and electrical features of semitransparent CuO photoelectrochemical cell. <i>Data in Brief</i> , 2018 , 17, 681-688	1.2	5
176	Schottky junction interfacial properties at high temperature: A case of AgNWs embedded metal oxide/p-Si. <i>Physica B: Condensed Matter</i> , 2018 , 537, 228-235	2.8	5
175	Light-Induced All-Transparent Pyroelectric Photodetector. <i>ACS Applied Nano Materials</i> , 2018 , 1, 319-324	5.6	21
174	Modulation of structural properties of Sn doped ZnO for UV photoconductors. <i>Sensors and Actuators A: Physical</i> , 2018 , 270, 118-126	3.9	41
173	Growth of Wafer-Scale Standing Layers of WS ₂ for Self-Biased High-Speed UV-Visible-NIR Optoelectronic Devices. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 3964-3974	9.5	52
172	Photo-induced pyroelectric spikes for neuromorphic sensors. <i>Materials Letters</i> , 2018 , 225, 46-49	3.3	18
171	Compliance-Free Multileveled Resistive Switching in a Transparent 2D Perovskite for Neuromorphic Computing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12768-12772	9.5	45
170	High-performing ultrafast transparent photodetector governed by the pyro-phototronic effect. <i>Nanoscale</i> , 2018 , 10, 6928-6935	7.7	47
169	High-performing flexible and transparent photodetector by using silver nanowire-networks. <i>Materials Research Bulletin</i> , 2018 , 97, 244-250	5.1	17
168	Role of Ce ³⁺ valence state and surface oxygen vacancies on enhanced electrochemical performance of single step solvothermally synthesized CeO ₂ nanoparticles. <i>Electrochimica Acta</i> , 2018 , 284, 709-720	6.7	45
167	All metal oxide-based transparent and flexible photodetector. <i>Materials Science in Semiconductor Processing</i> , 2018 , 88, 86-92	4.3	39
166	Vertically trigonal WS ₂ layer embedded heterostructure for enhanced ultraviolet-visible photodetector. <i>Journal of Alloys and Compounds</i> , 2018 , 768, 143-149	5.7	15

165	Rapid Thermal Treatment of Reactive Sputtering Grown Nanocrystalline Co ₃ O ₄ for Enhanced All-Oxide Photovoltaics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018 , 215, 1800216	1.6	10
164	Reproducibility analyses of photo-induced pyroelectric photodetector based on vertically grown SnS layers. <i>Data in Brief</i> , 2018 , 18, 790-794	1.2	
163	Polarity flipping in an isotype heterojunction (p-SnS/p-Si) to enable a broadband wavelength selective energy-efficient photodetector. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6899-6904	7.1	11
162	Vertical growth of MoS ₂ layers by sputtering method for efficient photoelectric application. <i>Sensors and Actuators A: Physical</i> , 2018 , 269, 355-362	3.9	22
161	Reactive sputtering growth of Co ₃ O ₄ thin films for all metal oxide device: a semitransparent and self-powered ultraviolet photodetector. <i>Materials Science in Semiconductor Processing</i> , 2018 , 74, 74-79	4.3	25
160	Vertically aligned crystalline SnS layers-based NIR photodetector governed by pyro-phototronic effect. <i>Materials Letters</i> , 2018 , 213, 122-125	3.3	14
159	Piezophototronic Effect Modulated Multilevel Current Amplification from Highly Transparent and Flexible Device Based on Zinc Oxide Thin Film. <i>Small</i> , 2018 , 14, e1804016	11	14
158	Growth of Large-Area SnS Films with Oriented 2D SnS Layers for Energy-Efficient Broadband Optoelectronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1804737	15.6	29
157	Optoelectronics: Growth of Large-Area SnS Films with Oriented 2D SnS Layers for Energy-Efficient Broadband Optoelectronics (Adv. Funct. Mater. 40/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870289	15.6	2
156	Thickness-dependent photoelectrochemical properties of a semitransparent CoO photocathode. <i>Beilstein Journal of Nanotechnology</i> , 2018 , 9, 2432-2442	3	6
155	Physical and chemical data of WS platelets and thickness-dependent photoresponses. <i>Data in Brief</i> , 2018 , 20, 1256-1262	1.2	
154	Improved Broadband Photoresponse in Schottky-Like Junction Using Carrier Selective NiO Contact on p-Si. <i>Solar Rrl</i> , 2018 , 2, 1800138	7.1	2
153	All-Oxide-Based Highly Transparent Photonic Synapse for Neuromorphic Computing. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 34370-34376	9.5	105
152	Hybrid Structures of ITO-Nanowire-Embedded ITO Film for the Enhanced Si Photodetectors. <i>Journal of Nanomaterials</i> , 2018 , 2018, 1-8	3.2	2
151	New insights towards strikingly improved room temperature ethanol sensing properties of p-type Ce-doped SnO sensors. <i>Scientific Reports</i> , 2018 , 8, 8079	4.9	33
150	A non-volatile "programmable" transparent multilevel ultra-violet perovskite photodetector. <i>Nanoscale</i> , 2018 , 10, 11392-11396	7.7	11
149	Wide channel broadband CHNHPbI/SnS hybrid photodetector: breaking the limit of bandgap energy operation.. <i>RSC Advances</i> , 2018 , 8, 23206-23212	3.7	6
148	Tunable TiO ₂ films for high-performing transparent Schottky photodetector. <i>Materials Science in Semiconductor Processing</i> , 2017 , 61, 45-49	4.3	13

147	Electrical and optical properties of Si microwire solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 164, 7-12	6.4	18
146	High-performing transparent photodetectors based on Schottky contacts. <i>Materials Science in Semiconductor Processing</i> , 2017 , 64, 137-142	4.3	23
145	Excitonic metal oxide heterojunction (NiO/ZnO) solar cells for all-transparent module integration. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 170, 246-253	6.4	73
144	Electrochemical Properties of Highly Sensitive and Selective CuO Nanostructures Based Neurotransmitter Dopamine Sensor. <i>Electroanalysis</i> , 2017 , 29, 2106-2113	3	5
143	The properties of transparent TiO films for Schottky photodetector. <i>Data in Brief</i> , 2017 , 13, 171-174	1.2	1
142	Routes for realizing high-performing Si solar cells by using periodic structures. <i>Materials Research Bulletin</i> , 2017 , 94, 92-99	5.1	2
141	Statistical analyses on Si microwire solar cells. <i>Data in Brief</i> , 2017 , 12, 42-45	1.2	1
140	Flexible vanadium oxide film for broadband transparent photodetector. <i>Applied Physics Letters</i> , 2017 , 110, 101907	3.4	37
139	AgNWs networks for high-performing transparent heaters by using NiO window layer. <i>Sensors and Actuators A: Physical</i> , 2017 , 267, 8-13	3.9	8
138	Optical and electrical properties of the nanodisk-shaped SnS layers grown by sputtering. <i>Data in Brief</i> , 2017 , 15, 252-256	1.2	2
137	Transparent NiO/ZnO heterojunction for ultra-performing zero-bias ultraviolet photodetector on plastic substrate. <i>Journal of Alloys and Compounds</i> , 2017 , 729, 796-801	5.7	61
136	High-Speed, Self-Biased Broadband Photodetector-Based on a Solution-Processed Ag Nanowire/Si Schottky Junction. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38824-38831	9.5	22
135	Enhanced Optical and Electrical Properties of ITO/Ag/AZO Transparent Conductors for Photoelectric Applications. <i>International Journal of Photoenergy</i> , 2017 , 2017, 1-9	2.1	6
134	Transparent Cu ₂ O/ZnO heterojunction photoelectric devices. <i>Superlattices and Microstructures</i> , 2017 , 112, 262-268	2.8	8
133	Integrated spectral photocurrent density and reproducibility analyses of excitonic ZnO/NiO heterojunction. <i>Data in Brief</i> , 2017 , 15, 81-85	1.2	2
132	Sample preparation and electrochemical data of CoO working electrode for seawater splitting. <i>Data in Brief</i> , 2017 , 14, 68-72	1.2	1
131	Wafer-scale production of vertical SnS multilayers for high-performing photoelectric devices. <i>Nanoscale</i> , 2017 , 9, 15804-15812	7.7	66
130	Electrical circuit model of ITO/AZO/Ge photodetector. <i>Data in Brief</i> , 2017 , 14, 62-67	1.2	0

129	Photoelectrocatalytic sea water splitting using Kirkendall diffusion grown functional Co ₃ O ₄ film. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 171, 267-274	6.4	23
128	Physical, chemical, and optical data of SnS layers and light switching frequency dependent photoresponses. <i>Data in Brief</i> , 2017 , 14, 206-212	1.2	1
127	Optical properties and impedance spectroscopy analyses for microscale Si pillar solar cells. <i>Data in Brief</i> , 2017 , 14, 1-5	1.2	
126	Photocurrent Enhancement by a Rapid Thermal Treatment of Nanodisk-Shaped SnS Photocathodes. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 6099-6105	6.4	26
125	Enhanced broadband photoresponse of a self-powered photodetector based on vertically grown SnS layers via the pyro-phototronic effect. <i>Nanoscale</i> , 2017 , 9, 19201-19208	7.7	45
124	Facile Formation of Nanodisk-Shaped Orthorhombic SnS Layers from SnS ₂ Particles for Photoelectrocatalytic Hydrogen Production. <i>ChemNanoMat</i> , 2017 , 3, 591-600	3.5	15
123	High-performing MoS ₂ -embedded Si photodetector. <i>Materials Science in Semiconductor Processing</i> , 2017 , 71, 35-41	4.3	10
122	Nano-imprint for near-zero reflected Si solar cells. <i>Current Applied Physics</i> , 2017 , 17, 103-109	2.6	2
121	Cu ₄ O ₃ -based all metal oxides for transparent photodetectors. <i>Sensors and Actuators A: Physical</i> , 2017 , 253, 35-40	3.9	16
120	Highly Photoactive and Photo-Stable Spray Pyrolyzed Tenorite CuO Thin Films for Photoelectrochemical Energy Conversion. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H1195-H1203	3.9	20
119	Efficient hot electron collection, detection, and amplification in plasmon field-effect transistor. <i>Journal of Photonics for Energy</i> , 2016 , 6, 042509	1.2	4
118	First step to investigate nature of electronic states and transport in flower-like MoS ₂ : Combining experimental studies with computational calculations. <i>Scientific Reports</i> , 2016 , 6, 32690	4.9	17
117	High-performing ITO/CuO/n-Si photodetector with ultrafast photoresponse. <i>Sensors and Actuators A: Physical</i> , 2016 , 252, 35-41	3.9	18
116	Mie Resonance-Modulated Spatial Distributions of Photogenerated Carriers in Poly(3-hexylthiophene-2,5-diyl)/Silicon Nanopillars. <i>Scientific Reports</i> , 2016 , 6, 29472	4.9	5
115	ITO nanowires-embedding transparent NiO/ZnO photodetector. <i>Materials Research Bulletin</i> , 2016 , 83, 35-40	5.1	25
114	Electrical and optical properties of Ni-assisted grown single crystalline and transparent indium-tin-oxide nanowires. <i>Materials Science in Semiconductor Processing</i> , 2016 , 48, 79-84	4.3	3
113	Surface photovoltage characterizations of Si nanopillar arrays for verifying field-effect passivation using a SiN _x layer. <i>Current Applied Physics</i> , 2016 , 16, 141-144	2.6	4
112	Plasmon Field Effect Transistor for Plasmon to Electric Conversion and Amplification. <i>Nano Letters</i> , 2016 , 16, 250-4	11.5	60

111	Optically transparent and electrically conductive NiO window layer for Si solar cells. <i>Materials Letters</i> , 2016 , 174, 10-13	3.3	20
110	Thermally Stable Silver Nanowires-Embedding Metal Oxide for Schottky Junction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 8662-9	9.5	32
109	Nanostructured SnS with inherent anisotropic optical properties for high photoactivity. <i>Nanoscale</i> , 2016 , 8, 2293-303	7.7	95
108	MoOx/Si Heterojunction for High-Performing Photodetector. <i>Journal of the Korean Institute of Electrical and Electronic Material Engineers</i> , 2016 , 29, 720-724		
107	Silver nanowire-templated ITO window for broadband photodetection. <i>Sensors and Actuators A: Physical</i> , 2016 , 247, 215-220	3.9	10
106	Active Adoption of Void Formation in Metal-Oxide for All Transparent Super-Performing Photodetectors. <i>Scientific Reports</i> , 2016 , 6, 25461	4.9	42
105	CuO photocathode-embedded semitransparent photoelectrochemical cell. <i>Journal of Materials Research</i> , 2016 , 31, 3205-3213	2.5	17
104	Optical and electrical properties of Cu-based all oxide semi-transparent photodetector. <i>Applied Physics Letters</i> , 2016 , 109, 101902	3.4	17
103	Silver nanowires-templated metal oxide for broadband Schottky photodetector. <i>Applied Physics Letters</i> , 2016 , 108, 141904	3.4	22
102	Front surface field formation for majority carriers by functional p-NiO layer employed Si solar cell. <i>Applied Physics Letters</i> , 2016 , 109, 133902	3.4	13
101	Increased spectral sensitivity of Si photodetector by surface plasmon effect of Ag nanowires. <i>Infrared Physics and Technology</i> , 2016 , 76, 621-625	2.7	5
100	High potential for the optimum designs for a front contact and junction: A route to heterojunction solar cell. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 154, 65-70	6.4	2
99	Transparent conductor-embedding high-sensitive germanium NIR photodetector. <i>Materials Science in Semiconductor Processing</i> , 2016 , 48, 95-100	4.3	9
98	Morphological and optical data of AgNW embedded transparent conductive layer. <i>Data in Brief</i> , 2016 , 9, 177-82	1.2	
97	Enhanced optical and electrical properties of Ni inserted ITO/Ni/AZO tri-layer structure for photoelectric applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015 , 195, 84-89	3.1	4
96	Three-dimensional nanodome-printed transparent conductors for high-performing Si photodetectors. <i>Materials Letters</i> , 2015 , 148, 174-177	3.3	7
95	Si photodetectors imprinted with ITO nanodomains for enhanced photodetection at NIR wavelengths. <i>Materials Science in Semiconductor Processing</i> , 2015 , 40, 397-401	4.3	2
94	Transparent conductor-embedding nanocones for selective emitters: optical and electrical improvements of Si solar cells. <i>Scientific Reports</i> , 2015 , 5, 9256	4.9	30

93	Impact of thin metal layer on the optical and electrical properties of indium-doped-tin oxide and aluminum-doped-zinc oxide layers. <i>Superlattices and Microstructures</i> , 2015 , 82, 499-506	2.8	12
92	Highly-performing Ni/SiO ₂ /Si MIS photodetector for NIR detecting applications. <i>Sensors and Actuators A: Physical</i> , 2015 , 233, 290-294	3.9	15
91	Solution-processed transparent conducting Ag nanowires layer for photoelectric device applications. <i>Materials Letters</i> , 2015 , 160, 305-308	3.3	12
90	Transparent conductor-embedding nanolens for Si solar cells. <i>Applied Physics Letters</i> , 2015 , 106, 151904	3.4	3
89	SiN _x layers on nanostructured Si solar cells: Effective for optical absorption and carrier collection. <i>Applied Physics Letters</i> , 2015 , 107, 153101	3.4	7
88	Characteristics of Carrier Collection of Nanopillar-Patterned Silicon Solar Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 2400-3	1.3	2
87	All Transparent Metal Oxide Ultraviolet Photodetector. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500232	6.4	101
86	Photodetectors: All Transparent Metal Oxide Ultraviolet Photodetector (Adv. Electron. Mater. 11/2015). <i>Advanced Electronic Materials</i> , 2015 , 1, n/a-n/a	6.4	1
85	Comment on "Dependence of Performance of Si Nanowire Solar Cells on Geometry of the Nanowires". <i>Scientific World Journal, The</i> , 2015 , 2015, 568612	2.2	
84	Comment on Facile Deposition of Ultrafine Silver Particles on Silicon Surface Not Submerged in Precursor Solutions for Applications in Antireflective Layer. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-2	3.2	
83	Comment on Improving Light Outcoupling Efficiency for OLEDs with Microlens Array Fabricated on Transparent Substrate. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-2	3.2	
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