# Joondong Kim

### List of Publications by Citations

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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

4/ g-index

248 ext. papers

4,543 ext. citations

avg, IF

6.17 L-index

| #   | Paper  | IF              | Citations |
|-----|--|-----------------|-----------|
| 236 | Inkjet printing of single-walled carbon nanotubes and electrical characterization of the line pattern. <i>Nanotechnology</i> , <b>2008</b> , 19, 095702  | 3.4             | 121       |
| 235 | All-Oxide-Based Highly Transparent Photonic Synapse for Neuromorphic Computing. <i>ACS Applied Materials &amp; Acs Applied &amp;</i> | 9.5             | 105       |
| 234 | All Transparent Metal Oxide Ultraviolet Photodetector. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 150023  | 2 6.4           | 101       |
| 233 | Nanostructured SnS with inherent anisotropic optical properties for high photoactivity. <i>Nanoscale</i> , <b>2016</b> , 8, 2293-303   | 7.7             | 95        |
| 232 | Excitonic metal oxide heterojunction (NiO/ZnO) solar cells for all-transparent module integration. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 170, 246-253  | 6.4             | 73        |
| 231 | Continuous extraction of highly pure metallic single-walled carbon nanotubes in a microfluidic channel. <i>Nano Letters</i> , <b>2008</b> , 8, 4380-5  | 11.5            | 67        |
| 230 | Wafer-scale production of vertical SnS multilayers for high-performing photoelectric devices. <i>Nanoscale</i> , <b>2017</b> , 9, 15804-15812  | 7.7             | 66        |
| 229 | Direct electrical measurement of the self-assembled nickel silicide nanowire. <i>Nano Letters</i> , <b>2006</b> , 6, 135   | 5 <b>619</b> .5 | 65        |
| 228 | ZnO nanowire-embedded Schottky diode for effective UV detection by the barrier reduction effect. <i>Nanotechnology</i> , <b>2010</b> , 21, 115205  | 3.4             | 64        |
| 227 | A Highly Transparent Artificial Photonic Nociceptor. Advanced Materials, 2019, 31, e1900021  | 24              | 63        |
| 226 | Transparent NiO/ZnO heterojunction for ultra-performing zero-bias ultraviolet photodetector on plastic substrate. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 729, 796-801  | 5.7             | 61        |
| 225 | Plasmon Field Effect Transistor for Plasmon to Electric Conversion and Amplification. <i>Nano Letters</i> , <b>2016</b> , 16, 250-4  | 11.5            | 60        |
| 224 | Growth of Wafer-Scale Standing Layers of WS for Self-Biased High-Speed UV-Visible-NIR Optoelectronic Devices. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2018</b> , 10, 3964-3974   | 9.5             | 52        |
| 223 | Rapid thermal annealed Al-doped ZnO film for a UV detector. <i>Materials Letters</i> , <b>2011</b> , 65, 786-789   | 3.3             | 48        |
| 222 | High-performing ultrafast transparent photodetector governed by the pyro-phototronic effect. <i>Nanoscale</i> , <b>2018</b> , 10, 6928-6935  | 7.7             | 47        |
| 221 | Compliance-Free Multileveled Resistive Switching in a Transparent 2D Perovskite for Neuromorphic Computing. <i>ACS Applied Materials &amp; Acs Applied &amp; Acs App</i>                 | 9.5             | 45        |
| 220 | Role of Ce3+ valence state and surface oxygen vacancies on enhanced electrochemical performance of single step solvothermally synthesized CeO2 nanoparticles. <i>Electrochimica Acta</i> , <b>2018</b> , 284, 709-720  | 6.7             | 45        |

## (2016-2017)

| 219         | Enhanced broadband photoresponse of a self-powered photodetector based on vertically grown SnS layers via the pyro-phototronic effect. <i>Nanoscale</i> , <b>2017</b> , 9, 19201-19208   | 7.7  | 45 |
|-------------|--|------|----|
| 218         | Electrical characteristics of single and doubly connected Ni silicide nanowire grown by plasma-enhanced chemical vapor deposition. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 253103   | 3.4  | 45 |
| 217         | Spontaneous nickel monosilicide nanowire formation by metal induced growth. <i>Thin Solid Films</i> , <b>2005</b> , 483, 60-65   | 2.2  | 45 |
| 216         | Enhancement in Performance of Transparent p-NiO/n-ZnO Heterojunction Ultrafast Self-Powered Photodetector via Pyro-Phototronic Effect. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900438   | 6.4  | 42 |
| 215         | Synthesis of Vertically Aligned Manganese-Doped Fe3O4 Nanowire Arrays and Their Excellent Room-Temperature Gas Sensing Ability. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 13911-13916  | 3.8  | 42 |
| 214         | Active Adoption of Void Formation in Metal-Oxide for All Transparent Super-Performing Photodetectors. <i>Scientific Reports</i> , <b>2016</b> , 6, 25461   | 4.9  | 42 |
| 213         | Silver-Nanowire-Embedded Transparent Metal-Oxide Heterojunction Schottky Photodetector. <i>ACS Applied Materials &amp; District Metaloxide Materials &amp; District Metaloxide Materials &amp; District Metaloxide Materials &amp; District Metaloxide Me</i> | 9.5  | 41 |
| 212         | Modulation of structural properties of Sn doped ZnO for UV photoconductors. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 270, 118-126  | 3.9  | 41 |
| 211         | Transparent and crystalline Al-doped ZnO film-embedded heterojunction Si solar cell. <i>Materials Letters</i> , <b>2012</b> , 75, 99-101   | 3.3  | 41 |
| <b>21</b> 0 | Vertically Aligned WS2 Layers for High-Performing Memristors and Artificial Synapses. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900467  | 6.4  | 40 |
| 209         | Transparent and flexible photonic artificial synapse with piezo-phototronic modulator: Versatile memory capability and higher order learning algorithm. <i>Nano Energy</i> , <b>2019</b> , 63, 103843  | 17.1 | 39 |
| 208         | All metal oxide-based transparent and flexible photodetector. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 88, 86-92   | 4.3  | 39 |
| 207         | Incident light adjustable solar cell by periodic nanolens architecture. Scientific Reports, 2014, 4, 6879  | 4.9  | 38 |
| 206         | A Transparent Photonic Artificial Visual Cortex. <i>Advanced Materials</i> , <b>2019</b> , 31, e1903095  | 24   | 38 |
| 205         | Flexible vanadium oxide film for broadband transparent photodetector. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 101907   | 3.4  | 37 |
| 204         | Self-assembled nanobridge formation and spontaneous growth of metal-induced nanowires. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 253101   | 3.4  | 34 |
| 203         | New insights towards strikingly improved room temperature ethanol sensing properties of p-type Ce-doped SnO sensors. <i>Scientific Reports</i> , <b>2018</b> , 8, 8079   | 4.9  | 33 |
| 202         | Thermally Stable Silver Nanowires-Embedding Metal Oxide for Schottky Junction Solar Cells. <i>ACS Applied Materials &amp; Discourse (Materials &amp; Discours)</i>   | 9.5  | 32 |

| 201 | Transparent photovoltaic cells and self-powered photodetectors by TiO2/NiO heterojunction. <i>Journal of Power Sources</i> , <b>2021</b> , 481, 228865  | 8.9  | 31 |
|-----|---|------|----|
| 200 | Transparent conductor-embedding nanocones for selective emitters: optical and electrical improvements of Si solar cells. <i>Scientific Reports</i> , <b>2015</b> , 5, 9256  | 4.9  | 30 |
| 199 | Growth of Large-Area SnS Films with Oriented 2D SnS Layers for Energy-Efficient Broadband Optoelectronics. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1804737   | 15.6 | 29 |
| 198 | Controllable digital resistive switching for artificial synapses and pavlovian learning algorithm. <i>Nanoscale</i> , <b>2019</b> , 11, 15596-15604   | 7.7  | 28 |
| 197 | Effect of the short collection length in silicon microscale wire solar cells. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 193904  | 3.4  | 27 |
| 196 | Double transparent conducting oxide films for photoelectric devices. <i>Materials Letters</i> , <b>2012</b> , 70, 4-6   | 3.3  | 26 |
| 195 | Photocurrent Enhancement by a Rapid Thermal Treatment of Nanodisk-Shaped SnS Photocathodes. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 6099-6105   | 6.4  | 26 |
| 194 | ITO nanowires-embedding transparent NiO/ZnO photodetector. <i>Materials Research Bulletin</i> , <b>2016</b> , 83, 35-40   | 5.1  | 25 |
| 193 | Wafer-scale nanoconical frustum array crystalline silicon solar cells: promising candidates for ultrathin device applications. <i>Nanoscale</i> , <b>2014</b> , 6, 9568-73  | 7.7  | 25 |
| 192 | Observation of Ni silicide formations and field emission properties of Ni silicide nanowires. <i>Microelectronic Engineering</i> , <b>2008</b> , 85, 1709-1712  | 2.5  | 25 |
| 191 | Reactive sputtering growth of Co3O4 thin films for all metal oxide device: a semitransparent and self-powered ultraviolet photodetector. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 74, 74-79 | 4.3  | 25 |
| 190 | Multiple silicon nanowires-embedded Schottky solar cell. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 143112  | 3.4  | 24 |
| 189 | High-performing transparent photodetectors based on Schottky contacts. <i>Materials Science in Semiconductor Processing</i> , <b>2017</b> , 64, 137-142   | 4.3  | 23 |
| 188 | Photoelectrocatalytic sea water splitting using Kirkendall diffusion grown functional Co3O4 film. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 171, 267-274  | 6.4  | 23 |
| 187 | High-Speed, Self-Biased Broadband Photodetector-Based on a Solution-Processed Ag Nanowire/Si Schottky Junction. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2017</b> , 9, 38824-38831                       | 9.5  | 22 |
| 186 | Periodically patterned Si pyramids for realizing high efficient solar cells by wet etching process. <i>Solar Energy</i> , <b>2015</b> , 117, 180-186  | 6.8  | 22 |
| 185 | Bias modulated highly sensitive NO2 gas detection using carbon nanotubes. <i>Sensors and Actuators B: Chemical</i> , <b>2008</b> , 129, 628-631   | 8.5  | 22 |
| 184 | Silver nanowires-templated metal oxide for broadband Schottky photodetector. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 141904   | 3.4  | 22 |

| 183 | Vertical growth of MoS2 layers by sputtering method for efficient photoelectric application. <i>Sensors and Actuators A: Physical</i> , <b>2018</b> , 269, 355-362   | 3.9                     | 22 |
|-----|--|-------------------------|----|
| 182 | Light-Induced All-Transparent Pyroelectric Photodetector. ACS Applied Nano Materials, 2018, 1, 319-32  | 45.6                    | 21 |
| 181 | Double transparent conducting layers for Si photovoltaics. <i>Thin Solid Films</i> , <b>2013</b> , 547, 17-21  | 2.2                     | 21 |
| 180 | Rapid thermal-treated transparent electrode for photodiode applications. <i>Materials Letters</i> , <b>2014</b> , 115, 45-48   | 3.3                     | 21 |
| 179 | 2D layer-embedded transparent photovoltaics. <i>Nano Energy</i> , <b>2020</b> , 68, 104328   | 17.1                    | 21 |
| 178 | Highly Photoactive and Photo-Stable Spray Pyrolyzed Tenorite CuO Thin Films for Photoelectrochemical Energy Conversion. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, H1195-H12                                 | <b>0</b> 3 <sup>9</sup> | 20 |
| 177 | Optically transparent and electrically conductive NiO window layer for Si solar cells. <i>Materials Letters</i> , <b>2016</b> , 174, 10-13   | 3.3                     | 20 |
| 176 | The spontaneous metal-sitting structure on carbon nanotube arrays positioned by inkjet printing for wafer-scale production of high sensitive gas sensor units. <i>Sensors and Actuators B: Chemical</i> , <b>2009</b> , 135, 587-591 | 8.5                     | 20 |
| 175 | Persistent photoconductivity in Al-doped ZnO photoconductors under air, nitrogen and oxygen ambiance: Role of oxygen vacancies induced DX centers. <i>Ceramics International</i> , <b>2019</b> , 45, 8561-8570                       | 5.1                     | 19 |
| 174 | Translucent Photodetector with Blended Nanowires-Metal Oxide Transparent Selective Electrode Utilizing Photovoltaic and Pyro-Phototronic Coupling Effect. <i>Small</i> , <b>2019</b> , 15, e1804346                                  | 11                      | 19 |
| 173 | All-Transparent Oxide Photovoltaics: AZO Embedded ZnO/NiO/AgNW Band Selective High-Speed Electric Power Window. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1900348  | 6.4                     | 19 |
| 172 | See-through metal oxide frameworks for transparent photovoltaics and broadband photodetectors. <i>Nano Energy</i> , <b>2019</b> , 64, 103952   | 17.1                    | 19 |
| 171 | Highly sensitive carbon nanotube-embedding gas sensors operating at atmospheric pressure. <i>Nanotechnology</i> , <b>2009</b> , 20, 055503   | 3.4                     | 19 |
| 170 | Metal silicide-mediated microcrystalline silicon thin-film growth for photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , <b>2007</b> , 91, 534-538   | 6.4                     | 19 |
| 169 | Electrical and optical properties of Si microwire solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 164, 7-12   | 6.4                     | 18 |
| 168 | Sonochemical functionalization of the low-dimensional surface oxide of Galinstan for heterostructured optoelectronic applications. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 5584-5595                              | 7.1                     | 18 |
| 167 | Transparent all-oxide photovoltaics and broadband high-speed energy-efficient optoelectronics. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 194, 148-158  | 6.4                     | 18 |
| 166 | Photo-induced pyroelectric spikes for neuromorphic sensors. <i>Materials Letters</i> , <b>2018</b> , 225, 46-49  | 3.3                     | 18 |

| 165 | High-performing ITO/CuO/n-Si photodetector with ultrafast photoresponse. <i>Sensors and Actuators A: Physical</i> , <b>2016</b> , 252, 35-41  | 3.9  | 18 |
|-----|---|------|----|
| 164 | The influence of Ni layer and thickness of AZO layers on the optoelectronic properties of AZO/Ni/AZO tri-layer deposited at room temperature. <i>Materials Letters</i> , <b>2014</b> , 137, 132-135         | 3.3  | 18 |
| 163 | Solution-processed germanium nanowire-positioned Schottky solar cells. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 287   | 5    | 18 |
| 162 | High-performing flexible and transparent photodetector by using silver nanowire-networks. <i>Materials Research Bulletin</i> , <b>2018</b> , 97, 244-250  | 5.1  | 17 |
| 161 | First step to investigate nature of electronic states and transport in flower-like MoS2: Combining experimental studies with computational calculations. <i>Scientific Reports</i> , <b>2016</b> , 6, 32690 | 4.9  | 17 |
| 160 | Si-embedded metal oxide transparent solar cells. <i>Nano Energy</i> , <b>2020</b> , 77, 105090  | 17.1 | 17 |
| 159 | CuO photocathode-embedded semitransparent photoelectrochemical cell. <i>Journal of Materials Research</i> , <b>2016</b> , 31, 3205-3213   | 2.5  | 17 |
| 158 | Optical and electrical properties of Cu-based all oxide semi-transparent photodetector. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 101902  | 3.4  | 17 |
| 157 | Cu 4 O 3 -based all metal oxides for transparent photodetectors. <i>Sensors and Actuators A: Physical</i> , <b>2017</b> , 253, 35-40  | 3.9  | 16 |
| 156 | Effective light management of three-dimensionally patterned transparent conductive oxide layers. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 143904   | 3.4  | 16 |
| 155 | Efficient three-dimensional nanostructured photoelectric device by Al-ZnO coating on lithography-free patterned Si nanopillars. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 053118                   | 3.4  | 16 |
| 154 | Flexible, Performance-Based Route Planning for Super-Dense Operations 2008,   |      | 16 |
| 153 | Three-dimensional crystalline Si film growth by the Ni silicide mediation. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 043501  | 3.4  | 16 |
| 152 | Switchable Two-Terminal Transparent Optoelectronic Devices Based on 2D Perovskite. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800662  | 6.4  | 16 |
| 151 | Functional interlayer of In2O3 for transparent SnO2/SnS2 heterojunction photodetector. <i>Sensors and Actuators A: Physical</i> , <b>2019</b> , 293, 215-221  | 3.9  | 15 |
| 150 | Highly-performing Ni/SiO2/Si MIS photodetector for NIR detecting applications. <i>Sensors and Actuators A: Physical</i> , <b>2015</b> , 233, 290-294  | 3.9  | 15 |
| 149 | Vertically trigonal WS2 layer embedded heterostructure for enhanced ultraviolet lisible photodetector. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 768, 143-149                                  | 5.7  | 15 |
| 148 | Emitter controlled SiNx-free crystalline Si solar cells with a transparent conducting oxide film. <i>Materials Letters</i> , <b>2012</b> , 79, 284-287  | 3.3  | 15 |

## (2015-2013)

| 147 | Optimization of transparent conductor-embedding front electrodes for efficient light management. <i>Current Applied Physics</i> , <b>2013</b> , 13, 808-813  | 2.6  | 15 |
|-----|--|------|----|
| 146 | Facile Formation of Nanodisk-Shaped Orthorhombic SnS Layers from SnS2 Particles for Photoelectrocatalytic Hydrogen Production. <i>ChemNanoMat</i> , <b>2017</b> , 3, 591-600                             | 3.5  | 15 |
| 145 | Current enhancement of aluminum doped ZnO/n-Si isotype heterojunction solar cells by embedding silver nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2013</b> , 13, 5547-51        | 1.3  | 15 |
| 144 | Surface-concentrated light and efficient carrier collection in microhole-patterned Si solar cells. <i>Optics Express</i> , <b>2013</b> , 21 Suppl 4, A607-15   | 3.3  | 15 |
| 143 | A nickel silicide nanowire microscopy tip obtains nanoscale information. <i>Nanotechnology</i> , <b>2008</b> , 19, 485   | 73.3 | 15 |
| 142 | Holey engineered 2D ZnO-nanosheets architecture for supersensitive ppm level H2 gas detection at room temperature. <i>Sensors and Actuators B: Chemical</i> , <b>2021</b> , 326, 128839                  | 8.5  | 15 |
| 141 | Transparent Co3O4/ZnO photovoltaic broadband photodetector. <i>Materials Science in Semiconductor Processing</i> , <b>2020</b> , 117, 105192   | 4.3  | 14 |
| 140 | High-performing self-driven ultraviolet photodetector by TiO2/Co3O4 photovoltaics. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 827, 154376  | 5.7  | 14 |
| 139 | Wafer-scale surface roughening for enhanced light extraction of high power AlGaInP-based light-emitting diodes. <i>Optics Express</i> , <b>2014</b> , 22 Suppl 3, A723-34                                | 3.3  | 14 |
| 138 | Extremely high-performing heterojunction device by surficial length enhanced effect. <i>Sensors and Actuators A: Physical</i> , <b>2014</b> , 217, 183-188   | 3.9  | 14 |
| 137 | Functional TiO2 interlayer for all-transparent metal-oxide photovoltaics. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 816, 152602   | 5.7  | 14 |
| 136 | Vertically aligned crystalline SnS layers-based NIR photodetector governed by pyro-phototronic effect. <i>Materials Letters</i> , <b>2018</b> , 213, 122-125   | 3.3  | 14 |
| 135 | Piezophototronic Effect Modulated Multilevel Current Amplification from Highly Transparent and Flexible Device Based on Zinc Oxide Thin Film. <i>Small</i> , <b>2018</b> , 14, e1804016                  | 11   | 14 |
| 134 | Tunable TiO2 films for high-performing transparent Schottky photodetector. <i>Materials Science in Semiconductor Processing</i> , <b>2017</b> , 61, 45-49  | 4.3  | 13 |
| 133 | Transparent conductor-Si pillars heterojunction photodetector. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 064904   | 2.5  | 13 |
| 132 | Front surface field formation for majority carriers by functional p-NiO layer employed Si solar cell. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 133902   | 3.4  | 13 |
| 131 | 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> , <b>2015</b> , 82, 499-506 | 2.8  | 12 |
| 130 | Solution-processed transparent conducting Ag nanowires layer for photoelectric device applications. <i>Materials Letters</i> , <b>2015</b> , 160, 305-308  | 3.3  | 12 |

| 129 | Transparent conductors with an ultrathin nickel layer for high-performance photoelectric device applications. <i>Materials Science in Semiconductor Processing</i> , <b>2015</b> , 31, 334-339                     | 4.3                        | 12 |
|-----|--|----------------------------|----|
| 128 | Nanodome-patterned transparent conductor for highly responsive photoelectric device. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 153504  | 3.4                        | 12 |
| 127 | Hybrid nanostructures of titanium-decorated ZnO nanowires. <i>Materials Letters</i> , <b>2011</b> , 65, 1548-1551  | 3.3                        | 12 |
| 126 | Solid-state growth of nickel silicide nanowire by the metal-induced growth method. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 2936-2940  | 2.5                        | 12 |
| 125 | All-metal oxide transparent photodetector for broad responses. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 303, 111835  | 3.9                        | 12 |
| 124 | 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> , <b>2018</b> , 6, 6899-6904        | 7.1                        | 11 |
| 123 | Rapid thermal-treated transparent conductor on microscale Si-pillars for photoelectric applications. <i>Materials Letters</i> , <b>2015</b> , 146, 26-29   | 3.3                        | 11 |
| 122 | A non-volatile "programmable" transparent multilevel ultra-violet perovskite photodetector. <i>Nanoscale</i> , <b>2018</b> , 10, 11392-11396   | 7.7                        | 11 |
| 121 | Growth of Wafer-Scale ReS with "Tunable" Geometry toward Electron Field-Emission Application. <i>ACS Applied Materials &amp; Distribution</i> , 11, 35845-35852  | 9.5                        | 10 |
| 120 | Rapid Thermal Treatment of Reactive Sputtering Grown Nanocrystalline Co3O4 for Enhanced All-Oxide Photovoltaics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800216  | 1.6                        | 10 |
| 119 | High-performing MoS 2 -embedded Si photodetector. <i>Materials Science in Semiconductor Processing</i> , <b>2017</b> , 71, 35-41   | 4.3                        | 10 |
| 118 | Metal/Semiconductor and Transparent Conductor/Semiconductor Heterojunctions in High Efficient Photoelectric Devices: Progress and Features. <i>International Journal of Photoenergy</i> , <b>2014</b> , 2014, 1-14 | 2.1                        | 10 |
| 117 | Photovoltaic-driven transparent heater of ZnO-coated silver nanowire networks for self-functional remote power system. <i>Journal of Power Sources</i> , <b>2021</b> , 491, 229578                                 | 8.9                        | 10 |
| 116 | Over 30% efficiency bifacial 4-terminal perovskite-heterojunction silicon tandem solar cells with spectral albedo. <i>Scientific Reports</i> , <b>2021</b> , 11, 15524   | 4.9                        | 10 |
| 115 | Silver nanowire-templated ITO window for broadband photodetection. <i>Sensors and Actuators A: Physical</i> , <b>2016</b> , 247, 215-220   | 3.9                        | 10 |
| 114 | Optical and electrical properties of AZO/Ni/ITO transparent conductor. <i>Materials Letters</i> , <b>2015</b> , 143, 215   | 532318                     | 9  |
| 113 | Thermodynamic mechanism of nickel silicide nanowire growth. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 23310  | - <b></b><br>1 <b>3</b> .4 | 9  |
| 112 | Ni-catalyzed growth of silicon wire arrays for a Schottky diode. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 042103   | 3.4                        | 9  |

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