

Min-Kyu Son

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.

44
papers

1,683
citations

17
h-index

41
g-index

46
ext. papers

1,918
ext. citations

6.5
avg, IF

4.69
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 44 | Characterization of CuO/CuO heterostructure photocathode by tailoring CuO thickness for photoelectrochemical water splitting.. <i>RSC Advances</i> , 2022 , 12, 2632-2640 | 3.7 | 1 |
| 43 | Design and Demonstration of Large Scale Cu ₂ O Photocathodes with Metal Grid Structure for Photoelectrochemical Water Splitting. <i>Energies</i> , 2021 , 14, 7422 | 3.1 | 0 |
| 42 | Structural and Compositional Investigations on the Stability of Cuprous Oxide Nanowire Photocathodes for Photoelectrochemical Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 55080-55091 | 9.5 | 3 |
| 41 | Characteristics of crystalline sputtered LaFeO thin films as photoelectrochemical water splitting photocathodes. <i>Nanoscale</i> , 2020 , 12, 9653-9660 | 7.7 | 7 |
| 40 | Graphene-Si ₃ N ₄ nanocomposite blended polymer counter electrode for low-cost dye-sensitized solar cells. <i>Chemical Physics Letters</i> , 2020 , 758, 137920 | 2.5 | 5 |
| 39 | Effect of Ultraviolet Radiation on the Long-Term Stability of Dye-Sensitized Solar Cells. <i>Electronic Materials Letters</i> , 2020 , 16, 556-563 | 2.9 | 1 |
| 38 | Solution-Processed Cu ₂ S Photocathodes for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , 2018 , 3, 760-766 | 20.1 | 64 |
| 37 | Boosting the performance of Cu ₂ O photocathodes for unassisted solar water splitting devices. <i>Nature Catalysis</i> , 2018 , 1, 412-420 | 36.5 | 329 |
| 36 | Efficient electron transfer and reduced recombination with Nd:YAG laser scribing for high-efficiency quantum dot-sensitized solar cells. <i>Optics and Laser Technology</i> , 2017 , 94, 290-295 | 4.2 | 6 |
| 35 | A copper nickel mixed oxide hole selective layer for Au-free transparent cuprous oxide photocathodes. <i>Energy and Environmental Science</i> , 2017 , 10, 912-918 | 35.4 | 57 |
| 34 | Surface Modification of Polymer Counter Electrode for Low Cost Dye-sensitized Solar Cells. <i>Electrochimica Acta</i> , 2016 , 210, 880-887 | 6.7 | 11 |
| 33 | Cu ₂ O Nanowire Photocathodes for Efficient and Durable Solar Water Splitting. <i>Nano Letters</i> , 2016 , 16, 1848-57 | 11.5 | 439 |
| 32 | Polymer counter electrode of poly(3,4-ethylenedioxythiophene):Poly(4-styrenesulfonate) containing TiO ₂ nano-particles for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016 , 307, 25-30 | 8.9 | 29 |
| 31 | Enhanced Charge Collection with Passivation Layers in Perovskite Solar Cells. <i>Advanced Materials</i> , 2016 , 28, 3966-72 | 24 | 140 |
| 30 | Ammonia treated ZnO nanoflowers based CdS/CdSe quantum dot sensitized solar cell. <i>Electrochimica Acta</i> , 2015 , 151, 531-536 | 6.7 | 22 |
| 29 | Improved performance of CdS/CdSe quantum dot-sensitized solar cells using Mn-doped PbS quantum dots as a catalyst in the counter electrode. <i>Electrochimica Acta</i> , 2014 , 117, 92-98 | 6.7 | 24 |
| 28 | Fabrication of mesoporous TiO ₂ double layer using dicarboxylic acid in dye-sensitized solar cell. <i>Electronic Materials Letters</i> , 2014 , 10, 229-234 | 2.9 | 5 |

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| 27 | Surface modification on TiO ₂ nanoparticles in CdS/CdSe Quantum Dot-sensitized Solar Cell. <i>Electrochimica Acta</i> , 2014 , 118, 118-123 | 6.7 | 23 |
| 26 | Highly efficient solution processed nanorice structured NiS counter electrode for quantum dot sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 127, 427-432 | 6.7 | 72 |
| 25 | Study on characteristics of CdS quantum dot-sensitized solar cells prepared by successive ionic layer adsorption and reaction with different adsorption times. <i>Electronic Materials Letters</i> , 2014 , 10, 621-626 | 2.9 | 17 |
| 24 | Cobalt sulfide thin film as an efficient counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2014 , 133, 174-179 | 6.7 | 63 |
| 23 | Cu-doped ZnO nanoporous film for improved performance of CdS/CdSe quantum dot-sensitized solar cells. <i>Thin Solid Films</i> , 2014 , 570, 310-314 | 2.2 | 9 |
| 22 | The enhancement of dye adsorption in dye-sensitized solar module by an electrical adsorption method. <i>Thin Solid Films</i> , 2014 , 554, 118-121 | 2.2 | 6 |
| 21 | A simple method for modeling dye-sensitized solar cells. <i>Thin Solid Films</i> , 2014 , 554, 114-117 | 2.2 | 2 |
| 20 | Electrochemical impedance analysis on the additional layers for the enhancement on the performance of dye-sensitized solar cell. <i>Thin Solid Films</i> , 2014 , 554, 122-126 | 2.2 | 6 |
| 19 | Enhanced performance of Al ₂ O ₃ coated ZnO nanorods in CdS/CdSe quantum dot-sensitized solar cell. <i>Materials Chemistry and Physics</i> , 2014 , 143, 1404-1409 | 4.4 | 6 |
| 18 | Improved performance of dye-sensitized solar cells by employing acid treated Ti layer on the nanocrystalline TiO ₂ . <i>Thin Solid Films</i> , 2014 , 554, 204-208 | 2.2 | 2 |
| 17 | Improved long-term durability of a parallel-type dye-sensitized solar cell module using a platinum metal grid fabricated by direct current magnetron sputtering with heat treatment. <i>Journal of Power Sources</i> , 2013 , 222, 333-339 | 8.9 | 17 |
| 16 | Banyan Root Structured Mg-Doped ZnO Photoanode Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2600-2607 | 3.8 | 80 |
| 15 | Computational modeling and experimental analysis on the improvement of current mismatch in a W-type series-connected dye-sensitized solar module. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 268, 17-23 | 4.7 | 1 |
| 14 | The effects of electrolyte additives on the cell performances of CdS/CdSe quantum dot sensitized solar cells. <i>Korean Journal of Chemical Engineering</i> , 2013 , 30, 2088-2092 | 2.8 | 5 |
| 13 | Study on the Fabrication of Paint-Type Si Quantum Dot-Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 10MB07 | 1.4 | 7 |
| 12 | The blocking effect of charge recombination by sputtered and acid-treated ZnO thin film in dye-sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2012 , 248, 50-54 | 4.7 | 17 |
| 11 | Magnesium doped ZnO nanoparticles embedded ZnO nanorod hybrid electrodes for dye sensitized solar cells. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 62, 453-459 | 2.3 | 20 |
| 10 | Enhanced Photocurrent from CdS Sensitized ZnO Nanorods. <i>Journal of Electrical Engineering and Technology</i> , 2012 , 7, 965-970 | 1.4 | 5 |

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| 9 | Improvement on the Long-Term Stability of Dye-Sensitized Solar Module by Structural Alternation. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 10NE21 | 1.4 | 3 |
| 8 | The photo-characteristics of (Bi _{1-x} Zn _x)S quantum dot complex and multilayer structure for the application to the dye-sensitized solar cell. <i>Current Applied Physics</i> , 2011 , 11, S154-S157 | 2.6 | 13 |
| 7 | Analysis of TiO ₂ thickness effect on characteristic of a dye-sensitized solar cell by using electrochemical impedance spectroscopy. <i>Current Applied Physics</i> , 2010 , 10, S422-S424 | 2.6 | 60 |
| 6 | Visible light enhanced TiO ₂ thin film bilayer dye sensitized solar cells. <i>Thin Solid Films</i> , 2010 , 519, 894-899.2 | | 15 |
| 5 | The analysis of the change in the performance and impedance of dye-sensitized solar cell according to the dye-adsorption time. <i>Current Applied Physics</i> , 2010 , 10, S418-S421 | 2.6 | 18 |
| 4 | Faster dye-adsorption of dye-sensitized solar cells by applying an electric field. <i>Electrochimica Acta</i> , 2010 , 55, 4120-4123 | 6.7 | 38 |
| 3 | Optimal ablation of fluorine-doped tin oxide (FTO) thin film layers adopting a simple pulsed Nd:YAG laser with TEM ₀₀ mode. <i>Optics and Lasers in Engineering</i> , 2009 , 47, 558-562 | 4.6 | 25 |
| 2 | Optimal series-parallel connection method of dye-sensitized solar cell for Pt thin film deposition using a radio frequency sputter system. <i>Thin Solid Films</i> , 2008 , 517, 963-966 | 2.2 | 9 |
| 1 | Performance Characteristics of Bifacial Dye-Sensitized Solar Cells with a V-Shaped Low-Concentrating Light System. <i>ACS Applied Energy Materials</i> , | 6.1 | 1 |