

# Min-Kyu Son

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6614183/min-kyu-son-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Cu <sub>2</sub> O Nanowire Photocathodes for Efficient and Durable Solar Water Splitting. <i>Nano Letters</i> , <b>2016</b> , 16, 1848-57	11.5	439
43	Boosting the performance of Cu <sub>2</sub> O photocathodes for unassisted solar water splitting devices. <i>Nature Catalysis</i> , <b>2018</b> , 1, 412-420	36.5	329
42	Enhanced Charge Collection with Passivation Layers in Perovskite Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 3966-72	24	140
41	Banyan Root Structured Mg-Doped ZnO Photoanode Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 2600-2607	3.8	80
40	Highly efficient solution processed nanorice structured NiS counter electrode for quantum dot sensitized solar cells. <i>Electrochimica Acta</i> , <b>2014</b> , 127, 427-432	6.7	72
39	Solution-Processed Cu <sub>2</sub> S Photocathodes for Photoelectrochemical Water Splitting. <i>ACS Energy Letters</i> , <b>2018</b> , 3, 760-766	20.1	64
38	Cobalt sulfide thin film as an efficient counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , <b>2014</b> , 133, 174-179	6.7	63
37	Analysis of TiO <sub>2</sub> thickness effect on characteristic of a dye-sensitized solar cell by using electrochemical impedance spectroscopy. <i>Current Applied Physics</i> , <b>2010</b> , 10, S422-S424	2.6	60
36	A copper nickel mixed oxide hole selective layer for Au-free transparent cuprous oxide photocathodes. <i>Energy and Environmental Science</i> , <b>2017</b> , 10, 912-918	35.4	57
35	Faster dye-adsorption of dye-sensitized solar cells by applying an electric field. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 4120-4123	6.7	38
34	Polymer counter electrode of poly(3,4-ethylenedioxythiophene):Poly(4-styrenesulfonate) containing TiO <sub>2</sub> nano-particles for dye-sensitized solar cells. <i>Journal of Power Sources</i> , <b>2016</b> , 307, 25-30	8.9	29
33	Optimal ablation of fluorine-doped tin oxide (FTO) thin film layers adopting a simple pulsed Nd:YAG laser with TEM <sub>00</sub> mode. <i>Optics and Lasers in Engineering</i> , <b>2009</b> , 47, 558-562	4.6	25
32	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> , <b>2014</b> , 117, 92-98	6.7	24
31	Surface modification on TiO <sub>2</sub> nanoparticles in CdS/CdSe Quantum Dot-sensitized Solar Cell. <i>Electrochimica Acta</i> , <b>2014</b> , 118, 118-123	6.7	23
30	Ammonia treated ZnO nanoflowers based CdS/CdSe quantum dot sensitized solar cell. <i>Electrochimica Acta</i> , <b>2015</b> , 151, 531-536	6.7	22
29	Magnesium doped ZnO nanoparticles embedded ZnO nanorod hybrid electrodes for dye sensitized solar cells. <i>Journal of Sol-Gel Science and Technology</i> , <b>2012</b> , 62, 453-459	2.3	20
28	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> , <b>2010</b> , 10, S418-S421	2.6	18

27	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> , <b>2014</b> , 10, 621-626	2.9	17
26	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> , <b>2013</b> , 222, 333-339	8.9	17
25	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> , <b>2012</b> , 248, 50-54	4.7	17
24	Visible light enhanced TiO <sub>2</sub> thin film bilayer dye sensitized solar cells. <i>Thin Solid Films</i> , <b>2010</b> , 519, 894-899	9.2	15
23	The photo-characteristics of (Bi <sub>1-x</sub> Zn <sub>x</sub> )S quantum dot complex and multilayer structure for the application to the dye-sensitized solar cell. <i>Current Applied Physics</i> , <b>2011</b> , 11, S154-S157	2.6	13
22	Surface Modification of Polymer Counter Electrode for Low Cost Dye-sensitized Solar Cells. <i>Electrochimica Acta</i> , <b>2016</b> , 210, 880-887	6.7	11
21	Cu-doped ZnO nanoporous film for improved performance of CdS/CdSe quantum dot-sensitized solar cells. <i>Thin Solid Films</i> , <b>2014</b> , 570, 310-314	2.2	9
20	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> , <b>2008</b> , 517, 963-966	2.2	9
19	Characteristics of crystalline sputtered LaFeO thin films as photoelectrochemical water splitting photocathodes. <i>Nanoscale</i> , <b>2020</b> , 12, 9653-9660	7.7	7
18	Study on the Fabrication of Paint-Type Si Quantum Dot-Sensitized Solar Cells. <i>Japanese Journal of Applied Physics</i> , <b>2013</b> , 52, 10MB07	1.4	7
17	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> , <b>2017</b> , 94, 290-295	4.2	6
16	The enhancement of dye adsorption in dye-sensitized solar module by an electrical adsorption method. <i>Thin Solid Films</i> , <b>2014</b> , 554, 118-121	2.2	6
15	Electrochemical impedance analysis on the additional layers for the enhancement on the performance of dye-sensitized solar cell. <i>Thin Solid Films</i> , <b>2014</b> , 554, 122-126	2.2	6
14	Enhanced performance of Al <sub>2</sub> O <sub>3</sub> coated ZnO nanorods in CdS/CdSe quantum dot-sensitized solar cell. <i>Materials Chemistry and Physics</i> , <b>2014</b> , 143, 1404-1409	4.4	6
13	Fabrication of mesoporous TiO <sub>2</sub> double layer using dicarboxylic acid in dye-sensitized solar cell. <i>Electronic Materials Letters</i> , <b>2014</b> , 10, 229-234	2.9	5
12	The effects of electrolyte additives on the cell performances of CdS/CdSe quantum dot sensitized solar cells. <i>Korean Journal of Chemical Engineering</i> , <b>2013</b> , 30, 2088-2092	2.8	5
11	Enhanced Photocurrent from CdS Sensitized ZnO Nanorods. <i>Journal of Electrical Engineering and Technology</i> , <b>2012</b> , 7, 965-970	1.4	5
10	Graphene-Si <sub>3</sub> N <sub>4</sub> nanocomposite blended polymer counter electrode for low-cost dye-sensitized solar cells. <i>Chemical Physics Letters</i> , <b>2020</b> , 758, 137920	2.5	5

9	Structural and Compositional Investigations on the Stability of Cuprous Oxide Nanowire Photocathodes for Photoelectrochemical Water Splitting. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 55080-55091	9.5	3
8	Improvement on the Long-Term Stability of Dye-Sensitized Solar Module by Structural Alternation. <i>Japanese Journal of Applied Physics</i> , <b>2012</b> , 51, 10NE21	1.4	3
7	A simple method for modeling dye-sensitized solar cells. <i>Thin Solid Films</i> , <b>2014</b> , 554, 114-117	2.2	2
6	Improved performance of dye-sensitized solar cells by employing acid treated Ti layer on the nanocrystalline TiO <sub>2</sub> . <i>Thin Solid Films</i> , <b>2014</b> , 554, 204-208	2.2	2
5	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> , <b>2013</b> , 268, 17-23	4.7	1
4	Characterization of CuO/CuO heterostructure photocathode by tailoring CuO thickness for photoelectrochemical water splitting.. <i>RSC Advances</i> , <b>2022</b> , 12, 2632-2640	3.7	1
3	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
2	Effect of Ultraviolet Radiation on the Long-Term Stability of Dye-Sensitized Solar Cells. <i>Electronic Materials Letters</i> , <b>2020</b> , 16, 556-563	2.9	1
1	Design and Demonstration of Large Scale Cu <sub>2</sub> O Photocathodes with Metal Grid Structure for Photoelectrochemical Water Splitting. <i>Energies</i> , <b>2021</b> , 14, 7422	3.1	0