Hyunwoong Seo

List of Publications by Year
in descending order

28 papers	353 citations	933447 10 h-index	794594 19 g-index
29 all docs	29 docs citations	29 times ranked	472 citing authors

#	Article	IF	Citations
1	Analysis of TiO2 thickness effect on characteristic of a dye-sensitized solar cell by using electrochemical impedance spectroscopy. Current Applied Physics, 2010, 10, S422-S424.	2.4	68
2	Faster dye-adsorption of dye-sensitized solar cells by applying an electric field. Electrochimica Acta, 2010, 55, 4120-4123.	5.2	39
3	The fabrication of efficiency-improved W-series interconnect type of module by balancing the performance of single cells. Solar Energy, 2009, 83, 2217-2222.	6.1	38
4	Improved performance of CdS/CdSe quantum dot-sensitized solar cells using Mn-doped PbS quantum dots as a catalyst in the counter electrode. Electrochimica Acta, 2014, 117, 92-98.	5.2	26
5	Characteristics of crystalline sputtered LaFeO₃ thin films as photoelectrochemical water splitting photocathodes. Nanoscale, 2020, 12, 9653-9660.	5.6	23
6	The protective action of osmolytes on the deleterious effects of gamma rays and atmospheric pressure plasma on protein conformational changes. Scientific Reports, 2017, 7, 8698.	3.3	19
7	Analysis of current loss from a series-parallel combination of dye-sensitized solar cells using electrochemical impedance spectroscopy. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 568-574.	2.0	18
8	The reduction of charge recombination and performance enhancement by the surface modification of Si quantum dot-sensitized solar cell. Electrochimica Acta, 2013, 87, 213-217.	5.2	18
9	Effect of sulfur doped TiO2 on photovoltaic properties of dye-sensitized solar cells. Electronic Materials Letters, 2016, 12, 530-536.	2.2	13
10	Surface Modification of Polymer Counter Electrode for Low Cost Dye-sensitized Solar Cells. Electrochimica Acta, 2016, 210, 880-887.	5.2	12
11	Improvement on the Electron Transfer of Dye-Sensitized Solar Cell Using Vanadium Doped TiO₂. Japanese Journal of Applied Physics, 2013, 52, 11NM02.	1.5	11
12	Progress in photovoltaic performance of organic/inorganic hybrid solar cell based on optimal resistive Si and solvent modified poly(3,4â€ethylenedioxythiophene) poly(styrenesulfonate) junction. Progress in Photovoltaics: Research and Applications, 2018, 26, 145-150.	8.1	11
13	In-situ Measurements of Cluster Volume Fraction in Silicon Thin Films Using Quartz Crystal Microbalances. Materials Research Society Symposia Proceedings, 2012, 1426, 307-311.	0.1	7
14	SiC Nanoparticle Composite Anode for Li-Ion Batteries. Materials Research Society Symposia Proceedings, 2014, 1678, 7.	0.1	7
15	Electrochemical impedance analysis on the additional layers for the enhancement on the performance of dye-sensitized solar cell. Thin Solid Films, 2014, 554, 122-126.	1.8	7
16	The enhancement of dye adsorption in dye-sensitized solar module by an electrical adsorption method. Thin Solid Films, 2014, 554, 118-121.	1.8	7
17	Improved performance of CdS and dye co-sensitized solar cell using a TiO₂sol-gel solution. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1726-1731.	1.8	6
18	Analysis on the photovoltaic property of Si quantum dot-sensitized solar cells. International Journal of Precision Engineering and Manufacturing, 2014, 15, 339-343.	2.2	5

#	Article	IF	Citations
19	Fabrication of mesoporous TiO2 double layer using dicarboxylic acid in dye-sensitized solar cell. Electronic Materials Letters, 2014, 10, 229-234.	2.2	5
20	Photovoltaic application of Si nanoparticles fabricated by multihollow plasma discharge CVD: Dye and Si co-sensitized solar cells. Japanese Journal of Applied Physics, 2015, 54, 01AD02.	1.5	4
21	Structural alternation of tandem dye-sensitized solar cells based on mesh-type of counter electrode. Electrochimica Acta, 2015, 179, 206-210.	5.2	4
22	Effects of Activated Carbon Counter Electrode on Bifacial Dye Sensitized Solar Cells (DSSCs). Materials Science Forum, 0, 1016, 863-868.	0.3	3
23	Characteristics of Crystalline Silicon/Si Quantum Dot/Poly(3,4-ethylenedioxythiophene) Hybrid Solar Cells. Japanese Journal of Applied Physics, 2013, 52, 11NA05.	1.5	1
24	Effect of Ultraviolet Radiation on the Long-Term Stability of Dye-Sensitized Solar Cells. Electronic Materials Letters, 2020, 16, 556-563.	2.2	1
25	The Optical Analysis and Application of Size-controllable Si Quantum Dots Fabricated by Multi-hollow Discharge Plasma Chemical Vapor Deposition. Materials Research Society Symposia Proceedings, 2012, 1426, 313-318.	0.1	0
26	Performance enhancement of dye and Si quantum dot hybrid nanostructured solar cell with TiO₂ barrier. Transactions of the Materials Research Society of Japan, 2014, 39, 321-324.	0.2	0
27	Deposition of Germanium Crystalline Nanoparticle Composite Films by Using Reactive Dusty Plasma Process and their Application for Quantum-Dot Solar Cells. Journal of Smart Processing, 2015, 4, 6-11.	0.1	0
28	Synergetic effect of a polymer and metalloid composite on the electrocatalytic improvement of dye-sensitized solar cells. New Journal of Chemistry, 0, , .	2.8	0