

Kati E Miettunen

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

2,313
citations

236925

25
h-index

206112

48
g-index

52
all docs

52
docs citations

52
times ranked

2773
citing authors

#	ARTICLE	IF	CITATIONS
1	Device Physics of Dye Solar Cells. <i>Advanced Materials</i> , 2010, 22, E210-34.	21.0	371
2	Interpretation of Optoelectronic Transient and Charge Extraction Measurements in Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2013, 25, 1881-1922.	21.0	262
3	Review of stability for advanced dye solar cells. <i>Energy and Environmental Science</i> , 2010, 3, 418.	30.8	260
4	Review of materials and manufacturing options for large area flexible dye solar cells. <i>Renewable and Sustainable Energy Reviews</i> , 2011, 15, 3717-3732.	16.4	185
5	Nanostructured dye solar cells on flexible substrates-Review. <i>International Journal of Energy Research</i> , 2009, 33, 1145-1160.	4.5	109
6	Initial Performance of Dye Solar Cells on Stainless Steel Substrates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 4011-4017.	3.1	54
7	Dye Solar Cells on ITO-PET Substrate with TiO ₂ Recombination Blocking Layers. <i>Journal of the Electrochemical Society</i> , 2009, 156, B876.	2.9	54
8	Nanocellulose aerogel membranes for optimal electrolyte filling in dye solar cells. <i>Nano Energy</i> , 2014, 8, 95-102.	16.0	51
9	Effect of electrolyte bleaching on the stability and performance of dye solar cells. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 6092.	2.8	50
10	Plant-Based Structures as an Opportunity to Engineer Optical Functions in Next-Generation Light Management. <i>Advanced Materials</i> , 2022, 34, e2104473.	21.0	48
11	In situ image processing method to investigate performance and stability of dye solar cells. <i>Solar Energy</i> , 2012, 86, 331-338.	6.1	47
12	Effect of Nonuniform Generation and Inefficient Collection of Electrons on the Dynamic Photocurrent and Photovoltage Response of Nanostructured Photoelectrodes. <i>Journal of Physical Chemistry C</i> , 2008, 112, 20491-20504.	3.1	45
13	Metallic and plastic dye solar cells. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2013, 2, 104-120.	4.1	45
14	Asymmetrical coffee rings from cellulose nanocrystals and prospects in art and design. <i>Cellulose</i> , 2019, 26, 491-506.	4.9	45
15	Stability of Dye Solar Cells with Photoelectrode on Metal Substrates. <i>Journal of the Electrochemical Society</i> , 2010, 157, B814.	2.9	39
16	Charge Transport and Photocurrent Generation Characteristics in Dye Solar Cells Containing Thermally Degraded N719 Dye Molecules. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15598-15606.	3.1	39
17	A carbon gel catalyst layer for the roll-to-roll production of dye solar cells. <i>Carbon</i> , 2011, 49, 528-532.	10.3	36
18	Critical analysis on the quality of stability studies of perovskite and dye solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 730-738.	30.8	35

#	ARTICLE	IF	CITATIONS
19	Encapsulation of commercial and emerging solar cells with focus on perovskite solar cells. <i>Solar Energy</i> , 2022, 237, 264-283.	6.1	35
20	Stabilization of metal counter electrodes for dye solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2011, 653, 93-99.	3.8	32
21	Do Counter Electrodes on Metal Substrates Work with Cobalt Complex Based Electrolyte in Dye Sensitized Solar Cells?. <i>Journal of the Electrochemical Society</i> , 2013, 160, H132-H137.	2.9	32
22	Benefits of bifacial solar cells combined with low voltage power grids at high latitudes. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 161, 112354.	16.4	32
23	Two-Dimensional Time-Dependent Numerical Modeling of Edge Effects in Dye Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7019-7031.	3.1	31
24	Cellulose Nanocrystal Aerogels as Electrolyte Scaffolds for Glass and Plastic Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 5635-5642.	5.1	29
25	Long-Term Stability of Dye-Sensitized Solar Cells Assembled with Cobalt Polymer Gel Electrolyte. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17577-17585.	3.1	28
26	Spatial distribution and decrease of dye solar cell performance induced by electrolyte filling. <i>Electrochemistry Communications</i> , 2009, 11, 25-27.	4.7	21
27	Effect of molecular filtering and electrolyte composition on the spatial variation in performance of dye solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2012, 664, 63-72.	3.8	19
28	The Effect of Electrolyte Purification on the Performance and Long-Term Stability of Dye-Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2015, 162, H661-H670.	2.9	18
29	Recent progress in flexible dye solar cells. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2018, 7, e302.	4.1	18
30	Nanocellulose and Nanochitin Cryogels Improve the Efficiency of Dye Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10257-10265.	6.7	18
31	Segmented Cell Design for Improved Factoring of Aging Effects in Dye Solar Cells. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10297-10302.	3.1	17
32	Biobased aerogels with different surface charge as electrolyte carrier membranes in quantum dot-sensitized solar cell. <i>Cellulose</i> , 2018, 25, 3363-3375.	4.9	17
33	Stability of cobalt complex based dye solar cells with PEDOT and Pt catalysts and different electrolyte concentrations. <i>Electrochimica Acta</i> , 2020, 335, 135652.	5.2	16
34	Testing dye-sensitized solar cells in harsh northern outdoor conditions. <i>Energy Science and Engineering</i> , 2018, 6, 187-200.	4.0	15
35	Thin Film Nano Solar Cells—From Device Optimization to Upscaling. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 1078-1084.	0.9	14
36	Application of dye-sensitized and perovskite solar cells on flexible substrates. <i>Flexible and Printed Electronics</i> , 2018, 3, 013002.	2.7	14

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37	Electrolyte membranes based on ultrafine fibers of acetylated cellulose for improved and long-lasting dye-sensitized solar cells. <i>Cellulose</i> , 2019, 26, 6151-6163.	4.9	14
38	Eco-design for dye solar cells: From hazardous waste to profitable recovery. <i>Journal of Cleaner Production</i> , 2021, 320, 128743.	9.3	14
39	The effect of electrolyte filling method on the performance of dye-sensitized solar cells. <i>Journal of Electroanalytical Chemistry</i> , 2012, 677-680, 41-49.	3.8	13
40	Comparison of Plastic Based Counter Electrodes for Dye Sensitized Solar Cells. <i>Journal of the Electrochemical Society</i> , 2012, 159, H656-H661.	2.9	12
41	Extreme sensitivity of dye solar cells to UV-induced degradation. <i>Energy Science and Engineering</i> , 2021, 9, 19-26.	4.0	11
42	Biocarbon from brewery residues as a counter electrode catalyst in dye solar cells. <i>Electrochimica Acta</i> , 2021, 368, 137583.	5.2	10
43	Insights into corrosion in dye solar cells. <i>Progress in Photovoltaics: Research and Applications</i> , 2015, 23, 1045-1056.	8.1	9
44	Quasi-solid electrolyte with polyamidoamine dendron modified-talc applied to dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2016, 325, 161-170.	7.8	9
45	Low Cost Ferritic Stainless Steel in Dye Sensitized Solar Cells with Cobalt Complex Electrolyte. <i>Journal of the Electrochemical Society</i> , 2014, 161, H138-H143.	2.9	8
46	Analysis of dye degradation products and assessment of the dye purity in dye-sensitized solar cells. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 2245-2251.	1.5	8
47	Gel Electrolytes with Polyamidopyridine Dendron Modified Talc for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20454-20466.	8.0	8
48	Stabilizing Dendron-Modified Talc-Based Electrolyte for Quasi-Solid Dye-Sensitized Solar Cell. <i>Electrochimica Acta</i> , 2017, 228, 413-421.	5.2	7
49	The state of external circuit affects the stability of dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018, 275, 59-66.	5.2	5
50	From identification of electrolyte degradation rates to lifetime estimations in dye solar cells with iodine and cobalt redox couples. , 0, , .		2
51	Predictive Modeling of Dye Solar Cell Degradation. <i>Solar Rrl</i> , 2022, 6, .	5.8	2