

Jol Teuscher

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.

40
papers

13,120
citations

28
h-index

41
g-index

41
ext. papers

14,373
ext. citations

11.6
avg, IF

6.43
L-index

#	Paper	IF	Citations
40	Efficient hybrid solar cells based on meso-superstructured organometal halide perovskites. <i>Science</i> , 2012 , 338, 643-7	33.3	7959
39	Dye-sensitized solar cells for efficient power generation under ambient lighting. <i>Nature Photonics</i> , 2017 , 11, 372-378	33.9	653
38	Unravelling the mechanism of photoinduced charge transfer processes in lead iodide perovskite solar cells. <i>Nature Photonics</i> , 2014 , 8, 250-255	33.9	567
37	Unreacted Pbl ₂ as a Double-Edged Sword for Enhancing the Performance of Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2016 , 138, 10331-43	16.4	537
36	Lithium salts as "redox active" p-type dopants for organic semiconductors and their impact in solid-state dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 2572-9	3.6	459
35	Influence of the donor size in D- π -A organic dyes for dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2014 , 136, 5722-30	16.4	381
34	Significant Improvement of Dye-Sensitized Solar Cell Performance by Small Structural Modification in π -Conjugated Donor-Acceptor Dyes. <i>Advanced Functional Materials</i> , 2012 , 22, 1291-1302	15.6	366
33	Charge separation and efficient light energy conversion in sensitized mesoscopic solar cells based on binary ionic liquids. <i>Journal of the American Chemical Society</i> , 2005 , 127, 6850-6	16.4	358
32	Charge density dependent mobility of organic hole-transporters and mesoporous TiO ₂ determined by transient mobility spectroscopy: implications to dye-sensitized and organic solar cells. <i>Advanced Materials</i> , 2013 , 25, 3227-33	24	189
31	11% efficiency solid-state dye-sensitized solar cells with copper(II/I) hole transport materials. <i>Nature Communications</i> , 2017 , 8, 15390	17.4	181
30	Efficient electron transfer and sensitizer regeneration in stable π -extended tetrathiafulvalene-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5164-9	16.4	180
29	Transforming Hybrid Organic Inorganic Perovskites by Rapid Halide Exchange. <i>Chemistry of Materials</i> , 2015 , 27, 2181-2188	9.6	158
28	Molecular Engineering of a Fluorene Donor for Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 2733-2739	9.6	136
27	Protic ionic liquids as p-dopant for organic hole transporting materials and their application in high efficiency hybrid solar cells. <i>Journal of the American Chemical Society</i> , 2013 , 135, 13538-48	16.4	131
26	Charge migration and charge transfer in molecular systems. <i>Structural Dynamics</i> , 2017 , 4, 061508	3.2	98
25	Ligand Engineering for the Efficient Dye-Sensitized Solar Cells with Ruthenium Sensitizers and Cobalt Electrolytes. <i>Inorganic Chemistry</i> , 2016 , 55, 6653-9	5.1	65
24	Molecular design of metal-free D π -A substituted sensitizers for dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2010 , 3, 1757	35.4	65

23	A panchromatic anthracene-fused porphyrin sensitizer for dye-sensitized solar cells. <i>RSC Advances</i> , 2012 , 2, 6846	3.7	55
22	Control and Study of the Stoichiometry in Evaporated Perovskite Solar Cells. <i>ChemSusChem</i> , 2015 , 8, 3847-52	8.3	49
21	Photoinduced Interfacial Electron Injection Dynamics in Dye-Sensitized Solar Cells under Photovoltaic Operating Conditions. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 3786-90	6.4	49
20	Towards Long-Term Photostability of Solid-State Dye Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2014 , 4, 1301667	21.8	47
19	Unravelling the Potential for Dithienopyrrole Sensitizers in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 2642-2648	9.6	47
18	High Extinction Coefficient Antenna Dye in Solid-State Dye-Sensitized Solar Cells: A Photophysical and Electronic Study. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7562-7566	3.8	47
17	Effect of Coordination Sphere Geometry of Copper Redox Mediators on Regeneration and Recombination Behavior in Dye-Sensitized Solar Cell Applications. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4950-4962	6.1	34
16	Energy and charge transfer cascade in methylammonium lead bromide perovskite nanoparticle aggregates. <i>Chemical Science</i> , 2017 , 8, 4371-4380	9.4	33
15	Application of Cu(II) and Zn(II) coproporphyrins as sensitizers for thin film dye sensitized solar cells. <i>Energy and Environmental Science</i> , 2010 , 3, 956	35.4	33
14	Dynamics of Photoinduced Interfacial Electron Transfer and Charge Transport in Dye-Sensitized Mesoscopic Semiconductors. <i>Chimia</i> , 2007 , 61, 631-634	1.3	33
13	Efavirenz-induced urolithiasis. <i>Urological Research</i> , 2006 , 34, 288-9		32
12	Thiadiazolo[3,4-c]pyridine Acceptor Based Blue Sensitizers for High Efficiency Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17090-17099	3.8	20
11	Kinetics of the Regeneration by Iodide of Dye Sensitizers Adsorbed on Mesoporous Titania. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 17108-17115	3.8	19
10	Optimizing the Energy Offset between Dye and Hole-Transporting Material in Solid-State Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19850-19858	3.8	18
9	Liquid State and Zombie Dye Sensitized Solar Cells with Copper Bipyridine Complexes Functionalized with Alkoxy Groups. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 7071-7081	3.8	17
8	Dynamics of Photocarrier Separation in MAPbI ₃ Perovskite Multigrain Films under a Quasistatic Electric Field. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19595-19602	3.8	15
7	Unraveling the Dual Character of Sulfur Atoms on Sensitizers in Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26827-26833	9.5	12
6	Organic dyes containing fused acenes as building blocks: Optical, electrochemical and photovoltaic properties. <i>Chinese Chemical Letters</i> , 2018 , 29, 289-292	8.1	11

5	Patterning of perovskite-polymer films by wrinkling instabilities. <i>Soft Matter</i> , 2017 , 13, 1654-1659	3.6	10
4	Dynamics and mechanisms of interfacial photoinduced electron transfer processes of third generation photovoltaics and photocatalysis. <i>Chimia</i> , 2011 , 65, 704-9	1.3	10
3	Charge separation and carrier dynamics in donor-acceptor heterojunction photovoltaic systems. <i>Structural Dynamics</i> , 2017 , 4, 061503	3.2	8
2	Towards Compatibility between Ruthenium Sensitizers and Cobalt Electrolytes in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2013 , 125, 8893-8897	3.6	8
1	Unveiling the Nature of Charge Carrier Interactions by Electroabsorption Spectroscopy: An Illustration with Lead-Halide Perovskites. <i>Chimia</i> , 2017 , 71, 231-235	1.3	5