

Jacques-E Moser

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69
papers

10,768
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43
h-index

71
g-index

71
ext. papers

11,524
ext. citations

11.1
avg, IF

6.02
L-index

#	Paper	IF	Citations
69	Electrochemical impedance spectroscopic analysis of dye-sensitized solar cells. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 14945-53	3.4	1732
68	Dye-sensitized solar cells for efficient power generation under ambient lighting. <i>Nature Photonics</i> , 2017 , 11, 372-378	33.9	653
67	A New Ionic Liquid Electrolyte Enhances the Conversion Efficiency of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 13280-13285	3.4	569
66	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
65	High molar extinction coefficient heteroleptic ruthenium complexes for thin film dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2006 , 128, 4146-54	16.4	512
64	A cobalt complex redox shuttle for dye-sensitized solar cells with high open-circuit potentials. <i>Nature Communications</i> , 2012 , 3, 631	17.4	498
63	An organic redox electrolyte to rival triiodide/iodide in dye-sensitized solar cells. <i>Nature Chemistry</i> , 2010 , 2, 385-9	17.6	474
62	Coll(dbbp)22+ Complex Rivals Tri-iodide/Iodide Redox Mediator in Dye-Sensitized Photovoltaic Cells. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 10461-10464	3.4	376
61	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
60	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
59	A solvent-free, SeCN ⁻ /(SeCN) ³⁻ based ionic liquid electrolyte for high-efficiency dye-sensitized nanocrystalline solar cells. <i>Journal of the American Chemical Society</i> , 2004 , 126, 7164-5	16.4	336
58	Cooperative Effect of Adsorbed Cations and Iodide on the Interception of Back Electron Transfer in the Dye Sensitization of Nanocrystalline TiO ₂ . <i>Journal of Physical Chemistry B</i> , 2000 , 104, 1791-1795	3.4	322
57	An alternative efficient redox couple for the dye-sensitized solar cell system. <i>Chemistry - A European Journal</i> , 2003 , 9, 3756-63	4.8	284
56	Long-Lived Photoinduced Charge Separation and Redox-Type Photochromism on Mesoporous Oxide Films Sensitized by Molecular Dyads. <i>Journal of the American Chemical Society</i> , 1999 , 121, 1324-1336	16.4	231
55	Enhanced electron collection efficiency in dye-sensitized solar cells based on nanostructured TiO ₂ hollow fibers. <i>Nano Letters</i> , 2010 , 10, 1632-8	11.5	221
54	Real-Time Observation of Photoinduced Adiabatic Electron Transfer in Strongly Coupled Dye/Semiconductor Colloidal Systems with a 6 fs Time Constant. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 6494-6499	3.4	207
53	Rationale for kinetic heterogeneity of ultrafast light-induced electron transfer from Ru(II) complex sensitizers to nanocrystalline TiO ₂ . <i>Journal of the American Chemical Society</i> , 2005 , 127, 12150-1	16.4	201

52	Stable, high-efficiency ionic-liquid-based mesoscopic dye-sensitized solar cells. <i>Small</i> , 2007 , 3, 2094-102	11	182
51	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
50	Charge Separation in Solid-State Dye-Sensitized Heterojunction Solar Cells. <i>Journal of the American Chemical Society</i> , 1999 , 121, 7445-7446	16.4	179
49	Copper Bipyridyl Redox Mediators for Dye-Sensitized Solar Cells with High Photovoltage. <i>Journal of the American Chemical Society</i> , 2016 , 138, 15087-15096	16.4	174
48	Ion coordinating sensitizer for high efficiency mesoscopic dye-sensitized solar cells: influence of lithium ions on the photovoltaic performance of liquid and solid-state cells. <i>Nano Letters</i> , 2006 , 6, 769-73	11.5	154
47	Molecular Engineering of a Fluorene Donor for Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 2733-2739	9.6	136
46	The Effect of Hole Transport Material Pore Filling on Photovoltaic Performance in Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 407-414	21.8	124
45	Comprehensive control of voltage loss enables 11.7% efficient solid-state dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2018 , 11, 1779-1787	35.4	112
44	Amphiphilic Ruthenium Sensitizer with 4,4-Diphosphonic Acid-2,2-Bipyridine as Anchoring Ligand for Nanocrystalline Dye Sensitized Solar Cells. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 17553-17559	3.4	100
43	Femtosecond Dynamics of Interfacial and Intermolecular Electron Transfer at Eosin-Sensitized Metal Oxide Nanoparticles. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 3215-3224	3.4	94
42	New pyrido[3,4-b]pyrazine-based sensitizers for efficient and stable dye-sensitized solar cells. <i>Chemical Science</i> , 2014 , 5, 206-214	9.4	93
41	Energy and hole transfer between dyes attached to titania in cosensitized dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10662-7	16.4	92
40	Dissociation of Charge Transfer States and Carrier Separation in Bilayer Organic Solar Cells: A Time-Resolved Electroabsorption Spectroscopy Study. <i>Journal of the American Chemical Society</i> , 2015 , 137, 8192-8	16.4	74
39	A close look at charge generation in polymer:fullerene blends with microstructure control. <i>Journal of the American Chemical Society</i> , 2015 , 137, 2908-18	16.4	68
38	A molecular photosensitizer achieves a V of 1.24 V enabling highly efficient and stable dye-sensitized solar cells with copper(II/I)-based electrolyte. <i>Nature Communications</i> , 2021 , 12, 1777	17.4	67
37	Butyronitrile-based electrolyte for dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , 2011 , 133, 13103-9	16.4	66
36	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
35	Engineering of thiocyanate-free Ru(II) sensitizers for high efficiency dye-sensitized solar cells. <i>Chemical Science</i> , 2013 , 4, 2423	9.4	65

34	Extraordinarily efficient conduction in a redox-active ionic liquid. <i>ChemPhysChem</i> , 2011 , 12, 145-9	3.2	61
33	The fate of electron-hole pairs in polymer:fullerene blends for organic photovoltaics. <i>Nature Communications</i> , 2016 , 7, 12556	17.4	57
32	Towards compatibility between ruthenium sensitizers and cobalt electrolytes in dye-sensitized solar cells. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 8731-5	16.4	57
31	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
30	Effect of Extended π -Conjugation of the Donor Structure of Organic D π A Dyes on the Photovoltaic Performance of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 16486-16493	3.8	47
29	Unravelling the Potential for Dithienopyrrole Sensitizers in Dye-Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2013 , 25, 2642-2648	9.6	47
28	Influence of iodide concentration on the efficiency and stability of dye-sensitized solar cell containing non-volatile electrolyte. <i>ChemPhysChem</i> , 2009 , 10, 1834-8	3.2	47
27	Influence of the Anchoring Modes on the Electronic and Photovoltaic Properties of D π A Dyes. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16876-16884	3.8	44
26	Position-Dependent Extension of π -Conjugation in D- π A Dye Sensitizers and the Impact on the Charge-Transfer Properties. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13805-13815	3.8	35
25	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
24	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
23	Dynamics of Photoinduced Interfacial Electron Transfer and Charge Transport in Dye-Sensitized Mesoscopic Semiconductors. <i>Chimia</i> , 2007 , 61, 631-634	1.3	33
22	Phenanthrene-Fused-Quinoxaline as a Key Building Block for Highly Efficient and Stable Sensitizers in Copper-Electrolyte-Based Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9324-9329	16.4	30
21	Dynamics of Interfacial Charge Transfer States and Carriers Separation in Dye-Sensitized Solar Cells: A Time-Resolved Terahertz Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26266-26274	3.8	25
20	Temperature-Dependent Ordering Phenomena of a Polyiodide System in a Redox-Active Ionic Liquid. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 7989-7992	3.8	21
19	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
18	Ultrafast charge separation dynamics in opaque, operational dye-sensitized solar cells revealed by femtosecond diffuse reflectance spectroscopy. <i>Scientific Reports</i> , 2016 , 6, 24465	4.9	18
17	Effect of Posttreatment of Titania Mesoscopic Films by TiCl ₄ in Solid-State Dye-Sensitized Solar Cells: A Time-Resolved Spectroscopy Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26721-26727	3.8	18

16	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
15	Conduction through viscoelastic phase in a redox-active ionic liquid at reduced temperatures. <i>Advanced Materials</i> , 2012 , 24, 781-4	24	16
14	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
13	Blue Photosensitizer with Copper(II/I) Redox Mediator for Efficient and Stable Dye-Sensitized Solar Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2004804	15.6	13
12	Investigation of Interfacial Charge Separation at PbS QDs/(001) TiO ₂ Nanosheets Heterojunction Solar Cell. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 483-488	3.1	12
11	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
10	Charge separation and carrier dynamics in donor-acceptor heterojunction photovoltaic systems. <i>Structural Dynamics</i> , 2017 , 4, 061503	3.2	8
9	Towards Compatibility between Ruthenium Sensitizers and Cobalt Electrolytes in Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2013 , 125, 8893-8897	3.6	8
8	Lateral Intermolecular Electronic Interactions of Diketopyrrolopyrrole D π A Solar Dye Sensitizers Adsorbed on Mesoporous Alumina. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19348-19358	3.8	7
7	Phenanthrene-Fused-Quinoxaline as a Key Building Block for Highly Efficient and Stable Sensitizers in Copper-Electrolyte-Based Dye-Sensitized Solar Cells. <i>Angewandte Chemie</i> , 2020 , 132, 9410-9415	3.6	6
6	Donor Effect on the Photoinduced Interfacial Charge Transfer Dynamics of D π A Diketopyrrolopyrrole Dye Sensitizers Adsorbed on Titanium Dioxide. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 19359-19369	3.8	6
5	On the kinetics and mechanism of light-induced electron transfer at the semiconductor/electrolyte interface. <i>Solar Energy Materials and Solar Cells</i> , 1995 , 38, 343-345	6.4	6
4	A tandem redox system with a cobalt complex and 2-azaadamantane-N-oxyl for fast dye regeneration and open circuit voltages exceeding 1 V. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 10998-11006	13	5
3	Electron donor-acceptor distance dependence of the dynamics of light-induced interfacial charge transfer in the dye-sensitization of nanocrystalline oxide semiconductors 2006 ,		3
2	Solar Energy Conversion 588-644		3
1	Using the Stark effect to understand charge generation in organic solar cells 2015 ,		1