

Nicolas Tetreault

List of Publications by Year in descending order

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27
papers

5,616
citations

279487

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h-index

580395

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all docs

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docs citations

27
times ranked

8436
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Mapping of the Molecular Arrangement of Amphiphilic Dye Molecules at the TiO ₂ Surface of Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2015, 7, 10834-10842.	4.0	30
2	A Novel Oligomer as a Hole Transporting Material for Efficient Perovskite Solar Cells. Advanced Energy Materials, 2015, 5, 1400980.	10.2	80
3	Mesoscopic photosystems for solar light harvesting and conversion: facile and reversible transformation of metal-halide perovskites. Faraday Discussions, 2014, 176, 251-269.	1.6	35
4	Effect of Annealing Temperature on Film Morphology of Organic-Inorganic Hybrid Perovskite Solid-State Solar Cells. Advanced Functional Materials, 2014, 24, 3250-3258.	7.8	850
5	Passivation of ZnO Nanowire Guests and 3D Inverse Opal Host Photoanodes for Dye-Sensitized Solar Cells. Advanced Energy Materials, 2014, 4, 1400217.	10.2	37
6	Inorganic hole conductor-based lead halide perovskite solar cells with 12.4% conversion efficiency. Nature Communications, 2014, 5, 3834.	5.8	769
7	Yttrium-substituted nanocrystalline TiO ₂ photoanodes for perovskite based heterojunction solar cells. Nanoscale, 2014, 6, 1508-1514.	2.8	162
8	Impedance Spectroscopic Analysis of Lead Iodide Perovskite-Sensitized Solid-State Solar Cells. ACS Nano, 2014, 8, 362-373.	7.3	663
9	Electrochemical Characterization of TiO ₂ Blocking Layers for Dye-Sensitized Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16408-16418.	1.5	201
10	In-situ investigation of adsorption of dye and coadsorbates on TiO ₂ films using QCM-D, fluorescence and AFM techniques. Proceedings of SPIE, 2013, , .	0.8	0
11	In situ investigation of dye adsorption on TiO ₂ films using a quartz crystal microbalance with a dissipation technique. Physical Chemistry Chemical Physics, 2012, 14, 9037.	1.3	36
12	A Ga ₂ O ₃ underlayer as an isomorphic template for ultrathin hematite films toward efficient photoelectrochemical water splitting. Faraday Discussions, 2012, 155, 223-232.	1.6	95
13	Novel nanostructures for next generation dye-sensitized solar cells. Energy and Environmental Science, 2012, 5, 8506.	15.6	162
14	Subnanometer Ga ₂ O ₃ Tunneling Layer by Atomic Layer Deposition to Achieve 1.1 V Open-Circuit Potential in Dye-Sensitized Solar Cells. Nano Letters, 2012, 12, 3941-3947.	4.5	188
15	(Invited) Atomic Layer Deposition for Novel Dye-Sensitized Solar Cells. ECS Transactions, 2011, 41, 303-314.	0.3	17
16	High-Efficiency Dye-Sensitized Solar Cell with Three-Dimensional Photoanode. Nano Letters, 2011, 11, 4579-4584.	4.5	143
17	Cathodic shift in onset potential of solar oxygen evolution on hematite by 13-group oxide overlayers. Energy and Environmental Science, 2011, 4, 2512.	15.6	269
18	Passivating surface states on water splitting hematite photoanodes with alumina overlayers. Chemical Science, 2011, 2, 737-743.	3.7	763

#	ARTICLE	IF	CITATIONS
19	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.	10.2	130
20	Dye-Sensitized Solar Cell Based on a Three-Dimensional Photonic Crystal. <i>Nano Letters</i> , 2010, 10, 2303-2309.	4.5	310
21	High-Efficiency Solid-State Dye-Sensitized Solar Cells: Fast Charge Extraction through Self-Assembled 3D Fibrous Network of Crystalline TiO ₂ Nanowires. <i>ACS Nano</i> , 2010, 4, 7644-7650.	7.3	105
22	Pore-Filling of Spiro-MeTAD in Solid-State Dye Sensitized Solar Cells: Quantification, Mechanism, and Consequences for Device Performance. <i>Advanced Functional Materials</i> , 2009, 19, 2431-2436.	7.8	258
23	Tunable defects in colloidal photonic crystals. , 2006, , .		1
24	Smart Defects in Colloidal Photonic Crystals. <i>Materials Research Society Symposia Proceedings</i> , 2005, 901, 1.	0.1	1
25	Tungsten inverse opals: The influence of absorption on the photonic band structure in the visible spectral region. <i>Applied Physics Letters</i> , 2004, 84, 224-226.	1.5	61
26	Towards the synthetic all-optical computer: science fiction or reality?. <i>Journal of Materials Chemistry</i> , 2004, 14, 781-794.	6.7	120
27	Mechanical stability enhancement by pore size and connectivity control in colloidal crystals by layer-by-layer growth of oxide. <i>Chemical Communications</i> , 2002, , 2736-2737.	2.2	130