

Jason B Baxter

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.

62
papers

4,286
citations

27
h-index

65
g-index

65
ext. papers

4,625
ext. citations

7.5
avg, IF

5.77
L-index

#	Paper	IF	Citations
62	Nanowire-based dye-sensitized solar cells. <i>Applied Physics Letters</i> , 2005 , 86, 053114	3.4	905
61	Synthesis and characterization of ZnO nanowires and their integration into dye-sensitized solar cells. <i>Nanotechnology</i> , 2006 , 17, S304-S312	3.4	373
60	Conductivity of ZnO nanowires, nanoparticles, and thin films using time-resolved terahertz spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 25229-39	3.4	329
59	Dye-sensitized solar cells based on semiconductor morphologies with ZnO nanowires. <i>Solar Energy Materials and Solar Cells</i> , 2006 , 90, 607-622	6.4	317
58	Nanoscale design to enable the revolution in renewable energy. <i>Energy and Environmental Science</i> , 2009 , 2, 559	35.4	311
57	Terahertz spectroscopy. <i>Analytical Chemistry</i> , 2011 , 83, 4342-68	7.8	259
56	Photovoltaic manufacturing: Present status, future prospects, and research needs. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011 , 29, 030801	2.9	192
55	Commercialization of dye sensitized solar cells: Present status and future research needs to improve efficiency, stability, and manufacturing. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2012 , 30, 020801	2.9	108
54	Growth mechanism and characterization of zinc oxide hexagonal columns. <i>Applied Physics Letters</i> , 2003 , 83, 3797-3799	3.4	106
53	Chemical bath deposition of ZnO nanowires at near-neutral pH conditions without hexamethylenetetramine (HMTA): understanding the role of HMTA in ZnO nanowire growth. <i>Langmuir</i> , 2011 , 27, 3672-7	4	103
52	Engineering titania nanostructure to tune and improve its photocatalytic activity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3966-71	11.5	86
51	Epitaxial growth of ZnO nanowires on a- and c-plane sapphire. <i>Journal of Crystal Growth</i> , 2005 , 274, 407-411	4.6	83
50	Ultrafast Photooxidation of Mn(II)Terpyridine Complexes Covalently Attached to TiO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 11982-11990	3.8	77
49	Ultrafast carrier dynamics in nanostructures for solar fuels. <i>Annual Review of Physical Chemistry</i> , 2014 , 65, 423-47	15.7	76
48	Enhanced charge transfer kinetics of CdSe quantum dot-sensitized solar cell by inorganic ligand exchange treatments. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3721-8	9.5	76
47	Slow Electron-Hole Recombination in Lead Iodide Perovskites Does Not Require a Molecular Dipole. <i>ACS Energy Letters</i> , 2017 , 2, 2239-2244	20.1	65
46	ZnO Nanowires Grown by Chemical Bath Deposition in a Continuous Flow Microreactor. <i>Crystal Growth and Design</i> , 2009 , 9, 4538-4545	3.5	57

45	Nanocrystal Size-Dependent Efficiency of Quantum Dot Sensitized Solar Cells in the Strongly Coupled CdSe Nanocrystals/TiO ₂ System. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 14692-700	9.5	54
44	Lifetime, mobility, and diffusion of photoexcited carriers in ligand-exchanged lead selenide nanocrystal films measured by time-resolved terahertz spectroscopy. <i>ACS Nano</i> , 2015 , 9, 1820-8	16.7	53
43	Comparative evaluation of lead emissions and toxicity potential in the life cycle of lead halide perovskite photovoltaics. <i>Energy</i> , 2019 , 166, 1089-1096	7.9	53
42	In Situ X-ray Absorption Near-Edge Structure Spectroscopy of ZnO Nanowire Growth During Chemical Bath Deposition. <i>Chemistry of Materials</i> , 2010 , 22, 6162-6170	9.6	52
41	Infrared detection of hydrogen-generated free carriers in polycrystalline ZnO thin films. <i>Journal of Applied Physics</i> , 2005 , 97, 043522	2.5	44
40	Methods of photoelectrode characterization with high spatial and temporal resolution. <i>Energy and Environmental Science</i> , 2015 , 8, 2863-2885	35.4	42
39	Electrodeposition of CdSe coatings on ZnO nanowire arrays for extremely thin absorber solar cells. <i>Electrochimica Acta</i> , 2011 , 56, 2703-2711	6.7	33
38	SILAR-Deposited Hematite Films for Photoelectrochemical Water Splitting: Effects of Sn, Ti, Thickness, and Nanostructuring. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 4454-4465	3.8	31
37	Enhanced photoelectrochemical water splitting via SILAR-deposited Ti-doped hematite thin films with an FeOOH overlayer. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 6495-6504	13	31
36	Microreactor for High-Yield Chemical Bath Deposition of Semiconductor Nanowires: ZnO Nanowire Case Study. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 5954-5961	3.9	29
35	Static and Dynamic Optical Properties of La _{1-x} Sr _x FeO ₃ —The Effects of A-Site and Oxygen Stoichiometry. <i>Chemistry of Materials</i> , 2016 , 28, 97-105	9.6	25
34	Employing time-resolved terahertz spectroscopy to analyze carrier dynamics in thin-film Cu ₂ ZnSn(S,Se) ₄ absorber layers. <i>Applied Physics Letters</i> , 2014 , 104, 253901	3.4	23
33	Microreactor Chemical Bath Deposition of Laterally Graded Cd _{1-x} Zn _x S Thin Films: A Route to High-Throughput Optimization for Photovoltaic Buffer Layers. <i>Chemistry of Materials</i> , 2013 , 25, 297-306	9.6	21
32	Metallorganic Chemical Vapor Deposition of ZnO Nanowires from Zinc Acetylacetonate and Oxygen. <i>Journal of the Electrochemical Society</i> , 2009 , 156, H52	3.9	20
31	Effect of Chromium-Gold and Titanium-Titanium Nitride-Platinum-Gold Metallization on Wire/Ribbon Bondability. <i>IEEE Transactions on Advanced Packaging</i> , 2006 , 29, 707-713		20
30	Distinguishing Thermal and Electronic Effects in Ultrafast Optical Spectroscopy Using Oxide Heterostructures. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 115-123	3.8	18
29	Carrier dynamics in bulk ZnO. I. Intrinsic conductivity measured by terahertz time-domain spectroscopy. <i>Physical Review B</i> , 2009 , 80,	3.3	17
28	Solution processed CuSbS ₂ films for solar cell applications. <i>Thin Solid Films</i> , 2018 , 646, 180-189	2.2	15

27	Carrier dynamics in bulk ZnO. II. Transient photoconductivity measured by time-resolved terahertz spectroscopy. <i>Physical Review B</i> , 2009 , 80,	3.3	14
26	Directional Carrier Transfer in Strongly Coupled Binary Nanocrystal Superlattice Films Formed by Assembly and in Situ Ligand Exchange at a Liquid-Air Interface. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 4146-4157	3.8	13
25	Adherent and Conformal Zn(S,O,OH) Thin Films by Rapid Chemical Bath Deposition with Hexamethylenetetramine Additive. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11516-25	9.5	13
24	Dynamic Speciation Modeling to Guide Selection of Complexing Agents for Chemical Bath Deposition: Case Study for ZnS Thin Films. <i>Crystal Growth and Design</i> , 2015 , 15, 4893-4900	3.5	11
23	Relating Deposition Conditions to Zn(S,O,OH) Thin Film Properties for Photovoltaic Buffer Layers Using a Continuous Flow Microreactor. <i>Chemistry of Materials</i> , 2014 , 26, 6674-6683	9.6	11
22	Relating Carrier Dynamics and Photovoltaic Device Performance of Single-Crystalline Cu ₂ ZnSnSe ₄ . <i>Physical Review Applied</i> , 2019 , 11,	4.3	10
21	Tailoring Absorber Thickness and the Absorber-Scaffold Interface in CdSe-Coated ZnO Nanowire Extremely Thin Absorber Solar Cells. <i>Electrochimica Acta</i> , 2014 , 145, 291-299	6.7	10
20	Visible light carrier generation in co-doped epitaxial titanate films. <i>Applied Physics Letters</i> , 2015 , 106, 092901	3.4	10
19	Nucleation and Growth of Extremely Thin CdSe Films Electrodeposited from Near-Neutral Electrolytes. <i>Journal of the Electrochemical Society</i> , 2012 , 159, D605-D610	3.9	10
18	Effects of cation composition on carrier dynamics and photovoltaic performance in Cu ₂ ZnSnSe ₄ monocrystal solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2020 , 205, 110255	6.4	10
17	Ultrafast Charge Carrier Dynamics in Extremely Thin Absorber (ETA) Solar Cells Consisting of CdSe-Coated ZnO Nanowires. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19504-19512	3.8	9
16	Microstructural changes in CdSe-coated ZnO nanowires evaluated by in situ annealing in transmission electron microscopy and x-ray diffraction. <i>Nanotechnology</i> , 2012 , 23, 265701	3.4	9
15	Energy Level Alignment and Cation Charge States at the LaFeO ₃ /LaMnO ₃ (001) Heterointerface. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1700183	4.6	8
14	Passivation and thickness control of highly efficient kesterite solar cells. <i>Applied Physics Letters</i> , 2018 , 113, 033903	3.4	6
13	Environmental Sustainability of Mixed Cation Perovskite Materials in Photovoltaics Manufacturing. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16537-16548	8.3	6
12	A Noble-Transition Alloy Excels at Hot-Carrier Generation in the Near Infrared. <i>Advanced Materials</i> , 2020 , 32, e1906478	24	5
11	Thin films of copper indium selenide fabricated with high atom economy by electrophoretic deposition of nanocrystals under flow. <i>Chemical Engineering Science</i> , 2016 , 154, 128-135	4.4	5
10	Predicting Solar Cell Performance from Terahertz and Microwave Spectroscopy. <i>Advanced Energy Materials</i> , 2022 , 12, 2102776	21.8	5

9	Distinguishing Electron and Hole Dynamics in Functionalized CdSe/CdS Core/Shell Quantum Dots Using Complementary Ultrafast Spectroscopies and Kinetic Modeling. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 31-41	3.8	4
8	Nanosecond carrier lifetimes in solution-processed enargite (Cu ₃ AsS ₄) thin films. <i>Applied Physics Letters</i> , 2020 , 117, 162102	3.4	4
7	Critical Coupling of Visible Light Extends Hot-Electron Lifetimes for HO Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 22778-22788	9.5	3
6	Electron accepting naphthalene bisimide ligand architectures for modulation of π-stacking in nanocrystal hybrid materials. <i>Nanoscale Horizons</i> , 2020 , 5, 1509-1514	10.8	2
5	Influence of Depletion Width on Charge Transport and Interfacial Recombination in Extremely Thin Absorber Solar Cells. <i>Journal of the Electrochemical Society</i> , 2016 , 163, H133-H138	3.9	1
4	Growth and Characterization of ZnO Nanowires. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 776, 791		1
3	Optoelectronic Characterization of Emerging Solar Absorber Cu ₃ AsS ₄ 2019 ,		1
2	Distinguishing bulk and surface recombination in CdTe thin films and solar cells using time-resolved terahertz and photoluminescence spectroscopies. <i>Journal of Applied Physics</i> , 2021 , 130, 163104	2.5	0
1	ZnO Nanowire-Based Solar Cells 2014 , 227-252		