

James M Gardner

List of Publications by Year in descending order

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41
papers

1,488
citations

279778

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315719

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docs citations

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times ranked

2408
citing authors

#	ARTICLE	IF	CITATIONS
1	Layered 2D alkylammonium lead iodide perovskites: synthesis, characterization, and use in solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 15638-15646.	10.3	170
2	Polymeric, Cost-Effective, Dopant-Free Hole Transport Materials for Efficient and Stable Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2019, 141, 19700-19707.	13.7	119
3	Photon Upconversion on Dye-Sensitized Nanostructured ZrO ₂ Films. <i>Journal of Physical Chemistry C</i> , 2011, 115, 23226-23232.	3.1	99
4	Conformational and Compositional Tuning of Phenanthrocarbazole-Based Dopant-Free Hole-Transport Polymers Boosting the Performance of Perovskite Solar Cells. <i>Journal of the American Chemical Society</i> , 2020, 142, 17681-17692.	13.7	83
5	Integrated Photoelectrolysis of Water Implemented On Organic Metal Halide Perovskite Photoelectrode. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 11904-11909.	8.0	72
6	Coumarin as a Quantitative Probe for Hydroxyl Radical Formation in Heterogeneous Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6667-6674.	3.1	70
7	The impact of ligands on the synthesis and application of metal halide perovskite nanocrystals. <i>Journal of Materials Chemistry A</i> , 2021, 9, 23419-23443.	10.3	69
8	A facile route to grain morphology controllable perovskite thin films towards highly efficient perovskite solar cells. <i>Nano Energy</i> , 2018, 53, 405-414.	16.0	60
9	Enhancement of p-Type Dye-Sensitized Solar Cell Performance by Supramolecular Assembly of Electron Donor and Acceptor. <i>Scientific Reports</i> , 2014, 4, 4282.	3.3	59
10	Structure and function relationships in alkylammonium lead(II) iodide solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9201-9207.	10.3	57
11	1,1,2,2-Tetrachloroethane (TeCA) as a Solvent Additive for Organic Hole Transport Materials and Its Application in Highly Efficient Solid-State Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2015, 5, 1402340.	19.5	57
12	Solution processable, cross-linked sulfur polymers as solid electrolytes in dye-sensitized solar cells. <i>Chemical Communications</i> , 2015, 51, 14660-14662.	4.1	37
13	Impact of synthetic routes on the structural and physical properties of butyl-1,4-diammonium lead iodide semiconductors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11730-11738.	10.3	37
14	Ultrasound-assisted extraction of metals from Lithium-ion batteries using natural organic acids. <i>Green Chemistry</i> , 2021, 23, 8519-8532.	9.0	36
15	Probing and Controlling Surface Passivation of PbS Quantum Dot Solid for Improved Performance of Infrared Absorbing Solar Cells. <i>Chemistry of Materials</i> , 2019, 31, 4081-4091.	6.7	34
16	Stereoselective synthesis of unnatural β -amino acid derivatives through photoredox catalysis. <i>Chemical Science</i> , 2021, 12, 5430-5437.	7.4	33
17	Electronic and Structural Effects of Inner Sphere Coordination of Chloride to a Homoleptic Copper(II) Diimine Complex. <i>Inorganic Chemistry</i> , 2018, 57, 4556-4562.	4.0	31
18	Electronic Structure of Two-Dimensional Lead(II) Iodide Perovskites: An Experimental and Theoretical Study. <i>Chemistry of Materials</i> , 2018, 30, 4959-4967.	6.7	29

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19	A crosslinked polymer as dopant-free hole-transport material for efficient n-i-p type perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2021, 55, 211-218.	12.9	29
20	What Limits Photon Upconversion on Mesoporous Thin Films Sensitized by Solution-Phase Absorbers?. <i>Journal of Physical Chemistry C</i> , 2015, 119, 4550-4564.	3.1	28
21	Photon Upconversion from Chemically Bound Triplet Sensitizers and Emitters on Mesoporous ZrO ₂ : Implications for Solar Energy Conversion. <i>Journal of Physical Chemistry C</i> , 2015, 119, 25792-25806.	3.1	27
22	Flash-Quench Technique Employed To Study the One-Electron Reduction of Triiodide in Acetonitrile: Evidence for a Diiodide Reaction Product. <i>Inorganic Chemistry</i> , 2010, 49, 10223-10225.	4.0	25
23	Exploring the Optical and Electrochemical Properties of Homoleptic versus Heteroleptic Diimine Copper(I) Complexes. <i>Inorganic Chemistry</i> , 2019, 58, 12167-12177.	4.0	25
24	Organic Salts as p-Type Dopants for Efficient LiTFSI-Free Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33751-33758.	8.0	24
25	Single crystal structure and opto-electronic properties of oxidized Spiro-OMeTAD. <i>Chemical Communications</i> , 2020, 56, 1589-1592.	4.1	24
26	Precipitation and Crystallization Used in the Production of Metal Salts for Li-Ion Battery Materials: A Review. <i>Metals</i> , 2020, 10, 1609.	2.3	22
27	Synthesis of Zinc Oxide Nanorods via the Formation of Sea Urchin Structures and Their Photoluminescence after Heat Treatment. <i>Langmuir</i> , 2018, 34, 5079-5087.	3.5	19
28	Moisture tolerant solar cells by encapsulating 3D perovskite with long-chain alkylammonium cation-based 2D perovskite. <i>Communications Materials</i> , 2021, 2, .	6.9	19
29	Cross-Linked Sulfur-Selenium Polymers as Hole-Transporting Materials in Dye-Sensitized Solar Cells and Perovskite Solar Cells. <i>ChemPhotoChem</i> , 2017, 1, 363-368.	3.0	13
30	The Central Role of Ligand Conjugation for Properties of Coordination Complexes as Hole-Transport Materials in Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2019, 2, 6768-6779.	5.1	11
31	Mechanistic Insights from Functional Group Exchange Surface Passivation: A Combined Theoretical and Experimental Study. <i>ACS Applied Energy Materials</i> , 2019, 2, 2723-2733.	5.1	11
32	Energetic Barriers to Interfacial Charge Transfer and Ion Movement in Perovskite Solar Cells. <i>ChemPhysChem</i> , 2017, 18, 3047-3055.	2.1	10
33	Effect of the Ancillary Ligand on the Performance of Heteroleptic Cu(I) Diimine Complexes as Dyes in Dye-Sensitized Solar Cells. <i>ACS Applied Energy Materials</i> , 2022, 5, 1460-1470.	5.1	10
34	Water-resistant 2D lead(II) iodide perovskites: correlation between optical properties and phase transitions. <i>Materials Advances</i> , 2020, 1, 2395-2400.	5.4	8
35	Light-Induced Interfacial Dynamics Dramatically Improve the Photocurrent in Dye-Sensitized Solar Cells: An Electrolyte Effect. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 26241-26247.	8.0	7
36	Excited-State Dynamics of [Ru(bpy) ₃] ²⁺ Thin Films on Sensitized TiO ₂ and ZrO ₂ . <i>ChemPhysChem</i> , 2019, 20, 618-626.	2.1	6

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37	Electronic Structure Characterization of Cross-Linked Sulfur Polymers. ChemPhysChem, 2018, 19, 1041-1047.	2.1	4
38	Reply to "Comment on "Coumarin as a Quantitative Probe for Hydroxyl Radical Formation in Heterogeneous Photocatalysis". Journal of Physical Chemistry C, 2019, 123, 20685-20686.	3.1	4
39	The effect of ZnO particle lattice termination on the DC conductivity of LDPE nanocomposites. Materials Advances, 2020, 1, 1653-1664.	5.4	4
40	Rapid Microwave-Assisted Self-Assembly of a Carboxylic-Acid-Terminated Dye on a TiO ₂ Photoanode. ACS Applied Energy Materials, 2018, 1, 202-210.	5.1	3
41	Dye-Sensitized Solar Cells: 1,1,2,2-Tetrachloroethane (TeCA) as a Solvent Additive for Organic Hole Transport Materials and Its Application in Highly Efficient Solid-State Dye-Sensitized Solar Cells (Adv.) Tj ETQq1 1 0.784314 rBT /Overlo	7.8	14