Cody W Schlenker

List of Publications by Year
in descending order

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42 papers	3,891 citations	257450 24 h-index	265206 42 g-index
44 all docs	44 docs citations	44 times ranked	7677 citing authors

#	Article	IF	Citations
1	Continuous, Highly Flexible, and Transparent Graphene Films by Chemical Vapor Deposition for Organic Photovoltaics. ACS Nano, 2010, 4, 2865-2873.	14.6	1,148
2	The role of spin in the kinetic control of recombination in organic photovoltaics. Nature, 2013, 500, 435-439.	27.8	460
3	Solution-Phase Synthesis of SnSe Nanocrystals for Use in Solar Cells. Journal of the American Chemical Society, 2010, 132, 4060-4061.	13.7	318
4	CsPbBr₃ Perovskite Quantum Dot Vertical Cavity Lasers with Low Threshold and High Stability. ACS Photonics, 2017, 4, 2281-2289.	6.6	243
5	Ultrafast Spectroscopy Reveals Electron-Transfer Cascade That Improves Hydrogen Evolution with Carbon Nitride Photocatalysts. Journal of the American Chemical Society, 2017, 139, 7904-7912.	13.7	194
6	Singlet and Triplet Excitation Management in a Bichromophoric Near-Infrared-Phosphorescent BODIPY-Benzoporphyrin Platinum Complex. Journal of the American Chemical Society, 2011, 133, 88-96.	13.7	147
7	The molecular nature of photovoltage losses in organic solar cells. Chemical Communications, 2011, 47, 3702.	4.1	122
8	Highâ€Dielectric Constant Sideâ€Chain Polymers Show Reduced Nonâ€Geminate Recombination in Heterojunction Solar Cells. Advanced Energy Materials, 2014, 4, 1301857.	19.5	110
9	Photoinduced Hole Transfer Becomes Suppressed with Diminished Driving Force in Polymerâ€Fullerene Solar Cells While Electron Transfer Remains Active. Advanced Functional Materials, 2013, 23, 1238-1249.	14.9	101
10	Singletâ€“Triplet Inversion in Heptazine and in Polymeric Carbon Nitrides. Journal of Physical Chemistry A, 2019, 123, 8099-8108.	2.5	87
11	Cascade Organic Solar Cells. Chemistry of Materials, 2011, 23, 4132-4140.	6.7	82
12	Halogen-free solvent processing for sustainable development of high efficiency organic solar cells. Organic Electronics, 2012, 13, 2870-2878.	2.6	82
13	ITO Interface Modifiers Can Improve V_{OC} in Polymer Solar Cells and Suppress Surface Recombination. Journal of Physical Chemistry Letters, 2013, 4, 4038-4044.	4.6	78
14	Porphyrins Fused with Unactivated Polycyclic Aromatic Hydrocarbons. Journal of Organic Chemistry, 2012, 77, 143-159.	3.2	72
15	Polymer Triplet Energy Levels Need Not Limit Photocurrent Collection in Organic Solar Cells. Journal of the American Chemical Society, 2012, 134, 19661-19668.	13.7	61
16	Charge generation and energy transfer in hybrid polymer/infrared quantum dot solar cells. Energy and Environmental Science, 2013, 6, 769.	30.8	51
17	Proton-Coupled Electron Transfer from Water to a Model Heptazine-Based Molecular Photocatalyst. Journal of Physical Chemistry Letters, 2018, 9, 6257-6261.	4.6	51
18	Open-Circuit Voltage Losses in Selenium-Substituted Organic Photovoltaic Devices from Increased Density of Charge-Transfer States. Chemistry of Materials, 2015, 27, 6583-6591.	6.7	42

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19	Observation of Triplet Exciton Formation in a Platinum-Sensitized Organic Photovoltaic Device. Journal of Physical Chemistry Letters, 2011, 2, 48-54.	4.6	41
20	Hole Transfer from Low Band Gap Quantum Dots to Conjugated Polymers in Organic/Inorganic Hybrid Photovoltaics. Journal of Physical Chemistry Letters, 2013, 4, 280-284.	4.6	38
21	Operando Sum-Frequency Generation Detection of Electrolyte Redox Products at Active Si Nanoparticle Li-Ion Battery Interfaces. Chemistry of Materials, 2018, 30, 1239-1248.	6.7	30
22	Preferential Charge Generation at Aggregate Sites in Narrow Band Gap Infrared Photoresponsive Polymer Semiconductors. Advanced Optical Materials, 2018, 6, 1701138.	7.3	29
23	Current Challenges in Organic Photovoltaic Solar Energy Conversion. Topics in Current Chemistry, 2011, 312, 175-212.	4.0	27
24	Size-Dependent Charge Transfer Yields in Conjugated Polymer/Quantum Dot Blends. Journal of Physical Chemistry C, 2014, 118, 5710-5715.	3.1	24
25	Modulation of hybrid organicâ€“perovskite photovoltaic performance by controlling the excited dynamics of fullerenes. Materials Horizons, 2015, 2, 414-419.	12.2	24
26	Activationless Multiple-Site Concerted Protonâ€“Electron Tunneling. Journal of the American Chemical Society, 2018, 140, 7449-7452.	13.7	24
27	Heavy-Atom-Free Red-to-Yellow Photon Upconversion in a Thiosquaraine Composite. ACS Applied Energy Materials, 2020, 3, 19-28.	5.1	23
28	Barrierless Heptazine-Driven Excited State Proton-Coupled Electron Transfer: Implications for Controlling Photochemistry of Carbon Nitrides and Aza-Arenes. Journal of Physical Chemistry C, 2019, 123, 29580-29588.	3.1	21
29	Molecular Design of Heptazine-Based Photocatalysts: Effect of Substituents on Photocatalytic Efficiency and Photostability. Journal of Physical Chemistry A, 2020, 124, 3698-3710.	2.5	20
30	Seeded Growth of Nanoscale Semiconductor Tetrapods: Generality and the Role of Cation Exchange. Chemistry of Materials, 2020, 32, 4774-4784.	6.7	18
31	Control of Excited-State Proton-Coupled Electron Transfer by Ultrafast Pump-Push-Probe Spectroscopy in Heptazine-Phenol Complexes: Implications for Photochemical Water Oxidation. Journal of Physical Chemistry C, 2020, 124, 9151-9160.	3.1	18
32	Kinetic Competition between Charge Separation and Triplet Formation in Small-Molecule Photovoltaic Blends. Journal of Physical Chemistry C, 2017, 121, 26667-26676.	3.1	17
33	Photooxidation of water with heptazine-based molecular photocatalysts: Insights from spectroscopy and computational chemistry. Journal of Chemical Physics, 2020, 153, 100902.	3.0	17
34	Photochemistry of carbon nitrides and heptazine derivatives. Chemical Communications, 2021, 57, 9330-9353.	4.1	15
35	Germanium Nanowire Battery Electrodes with Engineered Surface-Binder Interactions Exhibit Improved Cycle Life and High Energy Density without Fluorinated Additives. ACS Applied Energy Materials, 2019, 2, 6200-6208.	5.1	14
36	Electromodulation and Transient Absorption Spectroscopy Suggest Conduction Band Electron Lifetime, Electron Trapping Parameters, and CH₃NH₃PbI₃ Solar Cell Fill Factor Are Correlated. Journal of Physical Chemistry C, 2019, 123, 18160-18170.	3.1	9

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37	Reciprocal carrier collection in organic photovoltaics. Physical Review B, 2011, 84, .	3.2	8
38	Stark Tuning Rates of Organic Carbonates Used in Electrochemical Energy Storage Devices. Journal of Physical Chemistry C, 2019, 123, 11484-11492.	3.1	8
39	Intermolecular Hydrogen Bonding Tunes Vibronic Coupling in Heptazine Complexes. Journal of Physical Chemistry B, 2020, 124, 11680-11689.	2.6	7
40	Ion-Pairing Dynamics Revealed by Kinetically Resolved In Situ FTIR Spectroelectrochemistry during Lithium-Ion Storage. ACS Applied Materials & Interfaces, 2021, 13, 48546-48554.	8.0	7
41	Charge Trapping Dynamics Revealed in CH₃NH₃PbI₃ by Ultrafast Multipulse Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 18834-18840.	3.1	2
42	Excited-state Energies Drive Charge-transfer in Organic Semiconductors. Materials and Energy, 2018, , 89-120.	0.1	1