

He Wang

List of Publications by Year in descending order

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42
papers

2,384
citations

218677

26
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276875

41
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all docs

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docs citations

42
times ranked

4105
citing authors

#	ARTICLE	IF	CITATIONS
1	Bulk heterojunction perovskite solar cells incorporated with p-type low optical gap conjugated polymers. <i>Nano Energy</i> , 2022, 93, 106907.	16.0	12
2	High-performance Ternary Perovskite-Organic Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2109348.	21.0	34
3	Photoactivation Properties of Self-n-Doped Perylene Diimides: Concentration-dependent Radical Anion and Dianion Formation. <i>ACS Materials Au</i> , 2022, 2, 482-488.	6.0	3
4	Coherent vibrational dynamics of Au ₁₄₄ (SR) ₆₀ nanoclusters. <i>Chemical Science</i> , 2022, 13, 8124-8130.	7.4	8
5	Single-electron charging and ultrafast dynamics of bimetallic Au ₁₄₄ Ag _x (PET) ₆₀ nanoclusters. <i>Nano Research</i> , 2022, 15, 8573-8578.	10.4	8
6	Atomically Precise Au ₄₂ Nanorods with Longitudinal Excitons for an Intense Photothermal Effect. <i>Journal of the American Chemical Society</i> , 2022, 144, 12381-12389.	13.7	36
7	Blade-coated inverted perovskite solar cells in an ambient environment. <i>Solar Energy Materials and Solar Cells</i> , 2022, 246, 111894.	6.2	10
8	Double-helical assembly of heterodimeric nanoclusters into supercrystals. <i>Nature</i> , 2021, 594, 380-384.	27.8	138
9	The Critical Number of Gold Atoms for a Metallic State Nanocluster: Resolving a Decades-Long Question. <i>ACS Nano</i> , 2021, 15, 13980-13992.	14.6	49
10	Atom-by-Atom Evolution of the Same Ligand-Protected Au ₂₁ , Au ₂₂ , Au ₂₂ Cd ₁ , and Au ₂₄ Nanocluster Series. <i>Journal of the American Chemical Society</i> , 2020, 142, 20426-20433.	13.7	36
11	Attosecond science based on high harmonic generation from gases and solids. <i>Nature Communications</i> , 2020, 11, 2748.	12.8	155
12	Effect of Composition on the Spin Relaxation of Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1502-1507.	4.6	47
13	Heterometal-Doped M ₂₃ (M = Au/Ag/Cd) Nanoclusters with Large Dipole Moments. <i>ACS Nano</i> , 2020, 14, 6599-6606.	14.6	26
14	Charge Transfer and Diffusion at the Perovskite/PCBM Interface Probed by Transient Absorption and Reflection. <i>Journal of Physical Chemistry C</i> , 2019, 123, 22095-22103.	3.1	26
15	Ultrafast Carrier Dynamics of Dual Emissions from the Orthorhombic Phase in Methylammonium Lead Iodide Perovskites Revealed by Two-Dimensional Coherent Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 4625-4631.	4.6	9
16	Self-assembled propylammonium cations at grain boundaries and the film surface to improve the efficiency and stability of perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 23739-23746.	10.3	41
17	Manipulating the Phase Distributions and Carrier Transfers in Hybrid Quasi-Two-Dimensional Perovskite Films. <i>Solar Rrl</i> , 2019, 3, 1800359.	5.8	46
18	Age-induced recrystallization in perovskite solar cells. <i>Organic Electronics</i> , 2019, 68, 143-150.	2.6	39

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19	A setup for extreme-ultraviolet ultrafast angle-resolved photoelectron spectroscopy at 50-kHz repetition rate. <i>Review of Scientific Instruments</i> , 2019, 90, 023105.	1.3	48
20	Porous Halide Perovskite/Polymer Nanocomposites for Explosive Detection with a High Sensitivity. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801686.	3.7	22
21	Carrier Dynamics Between the Ordered and Disordered Orthorhombic Lattice Domains in Methylammonium Lead Iodide Perovskite. , 2019, , .		0
22	Generation of Coherent Optical Phonons in Methylammonium Lead Iodide Thin Films. <i>Journal of Physical Chemistry C</i> , 2018, 122, 17035-17041.	3.1	13
23	Coulomb Screening and Coherent Phonon in Methylammonium Lead Iodide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3284-3289.	4.6	30
24	Halogenation of a Nonplanar Molecular Semiconductor to Tune Energy Levels and Bandgaps for Electron Transport. <i>Chemistry of Materials</i> , 2015, 27, 1892-1900.	6.7	55
25	Exciton and Free Charge Dynamics of Methylammonium Lead Iodide Perovskites Are Different in the Tetragonal and Orthorhombic Phases. <i>Journal of Physical Chemistry C</i> , 2015, 119, 19590-19595.	3.1	65
26	Fluorinated and hydrogenated self-assembled monolayers (SAMs) on anodes: Effects of SAM chemistry on device characteristics of polymer solar cells. <i>Organic Electronics</i> , 2014, 15, 3333-3340.	2.6	10
27	Enhanced Charge/Carrier Injection and Collection Via Lamination of Doped Polymer Layers p-Doped with a Solution-Processible Molybdenum Complex. <i>Advanced Functional Materials</i> , 2014, 24, 2197-2204.	14.9	77
28	Face-on stacking and enhanced out-of-plane hole mobility in graphene-templated copper phthalocyanine. <i>Chemical Communications</i> , 2014, 50, 5319-5321.	4.1	56
29	Tuning Contact Recombination and Open-Circuit Voltage in Polymer Solar Cells via Self-Assembled Monolayer Adsorption at the Organic/Metal Oxide Interface. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20474-20484.	3.1	39
30	Post-deposition Processing Methods To Induce Preferential Orientation in Contorted Hexabenzocoronene Thin Films. <i>ACS Nano</i> , 2013, 7, 294-300.	14.6	50
31	Electronic structure and carrier transport at laminated polymer homojunctions. <i>Organic Electronics</i> , 2013, 14, 149-155.	2.6	15
32	Benzo[1,2-b:6,5-b']dithiophene(dithiazole)-4,5-dione derivatives: synthesis, electronic properties, crystal packing and charge transport. <i>Journal of Materials Chemistry C</i> , 2013, 1, 1467.	5.5	23
33	Comment on "Tail State-Assisted Charge Injection and Recombination at the Electron-Collecting Interface of P3HT:PCBM Bulk/Heterojunction Polymer Solar Cells". <i>Advanced Energy Materials</i> , 2013, 3, 1537-1538.	19.5	3
34	Organic transistors with high thermal stability for medical applications. <i>Nature Communications</i> , 2012, 3, 723.	12.8	290
35	Tail State-Assisted Charge Injection and Recombination at the Electron-Collecting Interface of P3HT:PCBM Bulk/Heterojunction Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 1447-1455.	19.5	24
36	From Monolayer to Multilayer N-Channel Polymeric Field-Effect Transistors with Precise Conformational Order. <i>Advanced Materials</i> , 2012, 24, 951-956.	21.0	109

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37	Device Characteristics of Bulk-Heterojunction Polymer Solar Cells are Independent of Interfacial Segregation of Active Layers. <i>Chemistry of Materials</i> , 2011, 23, 2020-2023.	6.7	71
38	Supramolecular Order of Solution-Processed Perylenediimide Thin Films: High-Performance Small-Channel n-Type Organic Transistors. <i>Advanced Functional Materials</i> , 2011, 21, 4479-4486.	14.9	38
39	Organic Transistors: Supramolecular Order of Solution-Processed Perylenediimide Thin Films: High-Performance Small-Channel n-Type Organic Transistors (<i>Adv. Funct. Mater.</i> 23/2011). <i>Advanced Functional Materials</i> , 2011, 21, 4478-4478.	14.9	1
40	Correlating the scattered intensities of P3HT and PCBM to the current densities of polymer solar cells. <i>Chemical Communications</i> , 2011, 47, 436-438.	4.1	103
41	Direct determination of the electronic structure of the poly(3-hexylthiophene):phenyl-[6,6]-C61 butyric acid methyl ester blend. <i>Organic Electronics</i> , 2010, 11, 1779-1785.	2.6	211
42	Attosecond Time-Resolved Autoionization of Argon. <i>Physical Review Letters</i> , 2010, 105, 143002.	7.8	308