

He Wang

List of Publications by Year in descending order

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42
papers

2,384
citations

218677

26
h-index

276875

41
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all docs

42
docs citations

42
times ranked

4105
citing authors

#	ARTICLE	IF	CITATIONS
1	Attosecond Time-Resolved Autoionization of Argon. <i>Physical Review Letters</i> , 2010, 105, 143002.	7.8	308
2	Organic transistors with high thermal stability for medical applications. <i>Nature Communications</i> , 2012, 3, 723.	12.8	290
3	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
4	Attosecond science based on high harmonic generation from gases and solids. <i>Nature Communications</i> , 2020, 11, 2748.	12.8	155
5	Double-helical assembly of heterodimeric nanoclusters into supercrystals. <i>Nature</i> , 2021, 594, 380-384.	27.8	138
6	From Monolayer to Multilayer Na ⁺ -Channel Polymeric Field-Effect Transistors with Precise Conformational Order. <i>Advanced Materials</i> , 2012, 24, 951-956.	21.0	109
7	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
8	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
9	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
10	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
11	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
12	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
13	Post-deposition Processing Methods To Induce Preferential Orientation in Contorted Hexabenzocoronene Thin Films. <i>ACS Nano</i> , 2013, 7, 294-300.	14.6	50
14	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
15	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
16	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
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	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

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19	Tuning Contact Recombination and Open-Circuit Voltage in Polymer Solar Cells via Self-Assembled Monolayer Adsorption at the Organicâ€“Metal Oxide Interface. <i>Journal of Physical Chemistry C</i> , 2013, 117, 20474-20484.	3.1	39
20	Age-induced recrystallization in perovskite solar cells. <i>Organic Electronics</i> , 2019, 68, 143-150.	2.6	39
21	Supramolecular Order of Solutionâ€“Processed Peryleneâ€“diimide Thin Films: Highâ€“Performance Smallâ€“Channel nâ€“Type Organic Transistors. <i>Advanced Functional Materials</i> , 2011, 21, 4479-4486.	14.9	38
22	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
23	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
24	Highâ€“Performance Ternary Perovskiteâ€“Organic Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2109348.	21.0	34
25	Coulomb Screening and Coherent Phonon in Methylammonium Lead Iodide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3284-3289.	4.6	30
26	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
27	Heterometal-Doped M ₂₃ (M = Au/Ag/Cd) Nanoclusters with Large Dipole Moments. <i>ACS Nano</i> , 2020, 14, 6599-6606.	14.6	26
28	Tail Stateâ€“Assisted Charge Injection and Recombination at the Electronâ€“Collecting Interface of P3HT:PCBM Bulkâ€“Heterojunction Polymer Solar Cells. <i>Advanced Energy Materials</i> , 2012, 2, 1447-1455.	19.5	24
29	Benzo[1,2-b:6,5-bâ€“]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
30	Porous Halide Perovskiteâ€“Polymer Nanocomposites for Explosive Detection with a High Sensitivity. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801686.	3.7	22
31	Electronic structure and carrier transport at laminated polymer homojunctions. <i>Organic Electronics</i> , 2013, 14, 149-155.	2.6	15
32	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
33	Bulk heterojunction perovskite solar cells incorporated with p-type low optical gap conjugated polymers. <i>Nano Energy</i> , 2022, 93, 106907.	16.0	12
34	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
35	Blade-coated inverted perovskite solar cells in an ambient environment. <i>Solar Energy Materials and Solar Cells</i> , 2022, 246, 111894.	6.2	10
36	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

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37	Coherent vibrational dynamics of Au ₁₄₄ (SR) ₆₀ nanoclusters. <i>Chemical Science</i> , 2022, 13, 8124-8130.	7.4	8
38	Single-electron charging and ultrafast dynamics of bimetallic Au ₁₄₄ xAg _x (PET) ₆₀ nanoclusters. <i>Nano Research</i> , 2022, 15, 8573-8578.	10.4	8
39	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
40	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
41	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
42	Carrier Dynamics Between the Ordered and Disordered Orthorhombic Lattice Domains in Methylammonium Lead Iodide Perovskite. , 2019, , .		0