

Yaxin Zhai

List of Publications by Year in descending order

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45
papers

2,206
citations

331670

21
h-index

302126

39
g-index

45
all docs

45
docs citations

45
times ranked

3129
citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral-induced spin selectivity enables a room-temperature spin light-emitting diode. <i>Science</i> , 2021, 371, 1129-1133.	12.6	340
2	Giant Rashba splitting in 2D organic-inorganic halide perovskites measured by transient spectroscopies. <i>Science Advances</i> , 2017, 3, e1700704.	10.3	288
3	Magnetic field effects in hybrid perovskite devices. <i>Nature Physics</i> , 2015, 11, 427-434.	16.7	227
4	Spin-optoelectronic devices based on hybrid organic-inorganic trihalide perovskites. <i>Nature Communications</i> , 2019, 10, 129.	12.8	214
5	Reconfiguring the band-edge states of photovoltaic perovskites by conjugated organic cations. <i>Science</i> , 2021, 371, 636-640.	12.6	184
6	Impact of Layer Thickness on the Charge Carrier and Spin Coherence Lifetime in Two-Dimensional Layered Perovskite Single Crystals. <i>ACS Energy Letters</i> , 2018, 3, 2273-2279.	17.4	126
7	Exciton versus Free Carrier Photogeneration in Organometal Trihalide Perovskites Probed by Broadband Ultrafast Polarization Memory Dynamics. <i>Physical Review Letters</i> , 2015, 114, 116601.	7.8	113
8	Strategies to Achieve High Circularly Polarized Luminescence from Colloidal Organic-Inorganic Hybrid Perovskite Nanocrystals. <i>ACS Nano</i> , 2020, 14, 8816-8825.	14.6	94
9	Core/Alloyed-Shell Quantum Dot Robust Solid Films with High Optical Gains. <i>ACS Photonics</i> , 2016, 3, 647-658.	6.6	45
10	Optical Properties of Two-Dimensional Perovskite Films of $(\text{C}_{6}\text{H}_{5}\text{C}_{2}\text{H}_{4})_{2}[\text{Pb}_{4}]$ and $(\text{C}_{6}\text{H}_{5}\text{C}_{2}\text{H}_{4})_{2}[\text{Pb}_{3}\text{I}_{10}]$. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 13-19.	4.6	43
11	The Structural Origin of Chiroptical Properties in Perovskite Nanocrystals with Chiral Organic Ligands. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	43
12	Crafting Core/Graded Shell-Inorganic Quantum Dots with Suppressed Reabsorption and Tunable Stokes Shift as High Optical Gain Materials. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5071-5075.	13.8	42
13	Tuning Spin-Polarized Lifetime in Two-Dimensional Metal-Inorganic Halide Perovskite through Exciton Binding Energy. <i>Journal of the American Chemical Society</i> , 2021, 143, 19438-19445.	13.7	42
14	Magnetic Field Effect in Organic Light-Emitting Diodes Based on Electron Donor-Acceptor Exciplex Chromophores Doped with Fluorescent Emitters. <i>Advanced Functional Materials</i> , 2016, 26, 6930-6937.	14.9	37
15	Individual Electron and Hole Mobilities in Lead-Halide Perovskites Revealed by Noncontact Methods. <i>ACS Energy Letters</i> , 2020, 5, 47-55.	17.4	37
16	Ultrafast Spectroscopy of Photoexcitations in Organometal Trihalide Perovskites. <i>Advanced Functional Materials</i> , 2016, 26, 1617-1627.	14.9	35
17	Colour selective control of terahertz radiation using two-dimensional hybrid organic inorganic lead-trihalide perovskites. <i>Nature Communications</i> , 2017, 8, 1328.	12.8	35
18	A single-molecule diode with significant rectification and negative differential resistance behavior. <i>Organic Electronics</i> , 2014, 15, 484-490.	2.6	32

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19	Electronic transport properties of a diarylethene-based molecular switch with single-walled carbon nanotube electrodes: The effect of chirality. <i>Solid State Communications</i> , 2009, 149, 928-931.	1.9	29
20	Singlet fission of hot excitons in π -conjugated polymers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140327.	3.4	27
21	Gated electronic currents modulation and designs of logic gates with single molecular field effect transistors. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	26
22	Laser action and photoexcitations dynamics in Pb ₂ films. <i>Optical Materials Express</i> , 2015, 5, 530.	3.0	17
23	Enhanced emissive and lasing characteristics of nano-crystalline MAPbBr ₃ films grown via anti-solvent precipitation. <i>Journal of Applied Physics</i> , 2016, 120, 143101.	2.5	15
24	Charge transfer states and carrier generation in 1D organolead iodide semiconductors. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14977-14990.	10.3	15
25	First-principles study of the switching characteristics of the phenoxynaphthacenequinone-based optical molecular switch with carbon nanotube electrodes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 474-478.	2.7	12
26	First-principles study of the switching characteristics of the 15,16-dinitrile DDP/CPD-based optical molecular switch with carbon nanotube electrodes. <i>Current Applied Physics</i> , 2009, 9, 1213-1216.	2.4	10
27	The electronic transport properties in C ₆₀ molecular devices with different contact distances. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011, 375, 1602-1607.	2.1	10
28	Crafting Core/Graded Shell-Shell Quantum Dots with Suppressed Reabsorption and Tunable Stokes Shift as High Optical Gain Materials. <i>Angewandte Chemie</i> , 2016, 128, 5155-5159.	2.0	8
29	Hot carrier redistribution, electron-phonon interaction, and their role in carrier relaxation in thin film metal-halide perovskites. <i>Physical Review Materials</i> , 2021, 5, .	2.4	8
30	Suppressing Auger Recombination in Multiply Excited Colloidal Silicon Nanocrystals with Ligand-Induced Hole Traps. <i>Journal of Physical Chemistry C</i> , 2021, 125, 2565-2574.	3.1	7
31	Nonuniform demagnetizing field and magnetization in element of patterned NiFe films. <i>Journal of Applied Physics</i> , 2003, 93, 7598-7600.	2.5	6
32	Negative differential resistance in molecular devices: the role of molecule-electrode coupling. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 1455-1460.	5.1	6
33	Effect of contact interface configuration on electronic transport in (C ₂₀) ₂ -based molecular junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 773-778.	2.1	6
34	Pulse compression in diode-pumped doubly Q-switched Nd:GdVO ₄ laser with both V ³⁺ :YAG and Co ²⁺ :LMA saturable absorber. <i>Laser Physics</i> , 2011, 21, 680-683.	1.2	5
35	Negative differential resistance in a molecular junction of carbon nanotube and benzene. <i>Science China: Physics, Mechanics and Astronomy</i> , 2011, 54, 1433-1437.	5.1	5
36	Sign reversal of magnetoresistance and inverse spin Hall effect in doped conducting polymers. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 484003.	1.8	5

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37	Magnetic properties of periodically organized cobalt frameworks. Journal of Applied Physics, 2014, 116, .	2.5	4
38	Ultrafast photomodulation spectroscopy of π -conjugated polymers, nanotubes and organometal trihalide perovskites: A comparison. Synthetic Metals, 2016, 216, 31-39.	3.9	4
39	The inversely proportional relationship in the asymmetric transport of a diblock co-oligomer junction. Applied Physics Letters, 2011, 98, .	3.3	3
40	Magnetic field effect in organic light emitting diodes based on donor-acceptor exciplexes showing thermally activated delayed fluorescence. , 2016, , .		1
41	Optical and magnetic probes of hot singlet exciton fission in π -conjugated polymers for organic photovoltaic applications. , 2015, , .		0
42	Optical modulation of THz plasmonic resonances using perovskites. , 2016, , .		0
43	Magnetic Field Effects in Organic and Hybrid Materials with Spin-Orbit Coupling. Materials and Energy, 2018, , 339-375.	0.1	0
44	Reversible optical \rightarrow microwave quantum conversion assisted by optomechanical dynamically dark modes. Quantum Information Processing, 2021, 20, 1.	2.2	0
45	Selective Modulation of Terahertz using Photo-excited 2D Hybrid Lead Halide Perovskite. , 2017, , .		0