

# 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	The Structural Origin of Chiroptical Properties in Perovskite Nanocrystals with Chiral Organic Ligands. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	43
2	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
3	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
4	Reconfiguring the band-edge states of photovoltaic perovskites by conjugated organic cations. <i>Science</i> , 2021, 371, 636-640.	12.6	184
5	Chiral-induced spin selectivity enables a room-temperature spin light-emitting diode. <i>Science</i> , 2021, 371, 1129-1133.	12.6	340
6	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
7	Reversible opticalâ€“microwave quantum conversion assisted by optomechanical dynamically dark modes. <i>Quantum Information Processing</i> , 2021, 20, 1.	2.2	0
8	Tuning Spin-Polarized Lifetime in Two-Dimensional Metalâ€“Halide Perovskite through Exciton Binding Energy. <i>Journal of the American Chemical Society</i> , 2021, 143, 19438-19445.	13.7	42
9	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
10	Strategies to Achieve High Circularly Polarized Luminescence from Colloidal Organicâ€“Inorganic Hybrid Perovskite Nanocrystals. <i>ACS Nano</i> , 2020, 14, 8816-8825.	14.6	94
11	Optical Properties of Two-Dimensional Perovskite Films of $(\text{C}_{6}\text{H}_{5}\text{C}_{2}\text{H}_{4}\text{NH}_{3})_{2}[\text{Pb}_{4}]$ and $(\text{C}_{6}\text{H}_{5}\text{C}_{2}\text{H}_{4}\text{NH}_{3})_{2}[\text{Pb}_{3}\text{I}_{10}]$ . <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 13-19.	4.6	43
12	Spin-optoelectronic devices based on hybrid organic-inorganic trihalide perovskites. <i>Nature Communications</i> , 2019, 10, 129.	12.8	214
13	Magnetic Field Effects in Organic and Hybrid Materials with Spin-Orbit Coupling. <i>Materials and Energy</i> , 2018, , 339-375.	0.1	0
14	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
15	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
16	Giant Rashba splitting in 2D organic-inorganic halide perovskites measured by transient spectroscopies. <i>Science Advances</i> , 2017, 3, e1700704.	10.3	288
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	Selective Modulation of Terahertz using Photo-excited 2D Hybrid Lead Halide Perovskite. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Crafting Core/Graded Shellâ€“Shell Quantum Dots with Suppressed Reâ€“absorption and Tunable Stokes Shift as High Optical Gain Materials. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5071-5075.	13.8	42
20	Enhanced emissive and lasing characteristics of nano-crystalline MAPbBr <sub>3</sub> films grown via anti-solvent precipitation. <i>Journal of Applied Physics</i> , 2016, 120, 143101.	2.5	15
21	Optical modulation of THz plasmonic resonances using perovskites. , 2016, , .		0
22	Magnetic field effect in organic light emitting diodes based on donor-acceptor exciplexes showing thermally activated delayed fluorescence. , 2016, , .		1
23	Ultrafast Spectroscopy of Photoexcitations in Organometal Trihalide Perovskites. <i>Advanced Functional Materials</i> , 2016, 26, 1617-1627.	14.9	35
24	Magnetic Field Effect in Organic Lightâ€“Emitting Diodes Based on Electron Donorâ€“Acceptor Exciplex Chromophores Doped with Fluorescent Emitters. <i>Advanced Functional Materials</i> , 2016, 26, 6930-6937.	14.9	37
25	Crafting Core/Graded Shellâ€“Shell Quantum Dots with Suppressed Reâ€“absorption and Tunable Stokes Shift as High Optical Gain Materials. <i>Angewandte Chemie</i> , 2016, 128, 5155-5159.	2.0	8
26	Core/Alloyed-Shell Quantum Dot Robust Solid Films with High Optical Gains. <i>ACS Photonics</i> , 2016, 3, 647-658.	6.6	45
27	Ultrafast photomodulation spectroscopy of ĩ€-conjugated polymers, nanotubes and organometal trihalide perovskites: A comparison. <i>Synthetic Metals</i> , 2016, 216, 31-39.	3.9	4
28	Singlet fission of hot excitons in <i>ĩ€</i>-conjugated polymers. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20140327.	3.4	27
29	Magnetic field effects in hybrid perovskite devices. <i>Nature Physics</i> , 2015, 11, 427-434.	16.7	227
30	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
31	Laser action and photoexcitations dynamics in Pbl <sub>2</sub> films. <i>Optical Materials Express</i> , 2015, 5, 530.	3.0	17
32	Optical and magnetic probes of hot singlet exciton fission in ĩ€-conjugated polymers for organic photovoltaic applications. , 2015, , .		0
33	Magnetic properties of periodically organized cobalt frameworks. <i>Journal of Applied Physics</i> , 2014, 116, .	2.5	4
34	A single-molecule diode with significant rectification and negative differential resistance behavior. <i>Organic Electronics</i> , 2014, 15, 484-490.	2.6	32
35	Effect of contact interface configuration on electronic transport in (C <sub>2</sub> O) <sub>2</sub> -based molecular junctions. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012, 376, 773-778.	2.1	6
36	Pulse compression in diode-pumped doubly Q-switched Nd:GdVO <sub>4</sub> laser with both V <sup>3+</sup> :YAG and Co <sup>2+</sup> :LMA saturable absorber. <i>Laser Physics</i> , 2011, 21, 680-683.	1.2	5

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37	The electronic transport properties in C60 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
38	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
39	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
40	The inversely proportional relationship in the asymmetric transport of a diblock co-oligomer junction. <i>Applied Physics Letters</i> , 2011, 98, .	3.3	3
41	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
42	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
43	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
44	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
45	Nonuniform demagnetizing field and magnetization in element of patterned NiFe films. <i>Journal of Applied Physics</i> , 2003, 93, 7598-7600.	2.5	6