

# Jin-Feng Liao

## List of Publications by Year in descending order

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54  
papers

5,136  
citations

94415

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161844

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54  
all docs

54  
docs citations

54  
times ranked

5180  
citing authors

#	ARTICLE	IF	CITATIONS
1	Core@Shell CsPbBr <sub>3</sub> @Zeolitic Imidazolate Framework Nanocomposite for Efficient Photocatalytic CO <sub>2</sub> Reduction. ACS Energy Letters, 2018, 3, 2656-2662.	17.4	425
2	A Highly Red-Emissive Lead-Free Indium-Based Perovskite Single Crystal for Sensitive Water Detection. Angewandte Chemie - International Edition, 2019, 58, 5277-5281.	13.8	310
3	In Situ Construction of a Cs <sub>2</sub> Sn <sub>6</sub> Perovskite Nanocrystal/SnS <sub>2</sub> Nanosheet Heterojunction with Boosted Interfacial Charge Transfer. Journal of the American Chemical Society, 2019, 141, 13434-13441.	13.7	303
4	All-Solid-State Z-Scheme $\text{Fe}_2\text{O}_3/\text{Amine-RGO}/\text{CsPbBr}_3$ Hybrids for Visible-Light-Driven Photocatalytic CO <sub>2</sub> Reduction. Chem, 2020, 6, 766-780.	11.7	280
5	Intrinsic Self-Trapped Emission in OD Lead-Free (C <sub>4</sub> H <sub>14</sub> N <sub>2</sub> ) <sub>2</sub> In <sub>2</sub> Br <sub>10</sub> Single Crystal. Angewandte Chemie - International Edition, 2019, 58, 15435-15440.	13.8	244
6	Z-scheme 2D/2D Heterojunction of CsPbBr <sub>3</sub> /Bi <sub>2</sub> WO <sub>6</sub> for Improved Photocatalytic CO <sub>2</sub> Reduction. Advanced Functional Materials, 2020, 30, 2004293.	14.9	234
7	Dimension engineering on cesium lead iodide for efficient and stable perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 2066-2072.	10.3	198
8	Intrinsic Self-Trapped Emission in OD Lead-Free (C <sub>4</sub> H <sub>14</sub> N <sub>2</sub> ) <sub>2</sub> In <sub>2</sub> Br <sub>10</sub> Single Crystal. Angewandte Chemie, 2019, 131, 15581-15586.	2.0	190
9	Self-supported NiMoP <sub>2</sub> nanowires on carbon cloth as an efficient and durable electrocatalyst for overall water splitting. Journal of Materials Chemistry A, 2017, 5, 7191-7199.	10.3	168
10	Atomically Thin Defect-Rich Fe-Mn-O Hybrid Nanosheets as High Efficient Electrocatalyst for Water Oxidation. Advanced Functional Materials, 2018, 28, 1802463.	14.9	163
11	All-Inorganic Lead-Free Cs <sub>2</sub> PdX <sub>6</sub> (X = Br, I) Perovskite Nanocrystals with Single Unit Cell Thickness and High Stability. ACS Energy Letters, 2018, 3, 2613-2619.	17.4	143
12	Enhanced Solar-Driven Gaseous CO <sub>2</sub> Conversion by CsPbBr <sub>3</sub> Nanocrystal/Pd Nanosheet Schottky-Junction Photocatalyst. ACS Applied Energy Materials, 2018, 1, 5083-5089.	5.1	135
13	Indium-antimony-halide single crystals for high-efficiency white-light emission and anti-counterfeiting. Science Advances, 2021, 7, .	10.3	134
14	All-Inorganic Lead-Free Heterometallic Cs <sub>4</sub> MnBi <sub>2</sub> Cl <sub>12</sub> Perovskite Single Crystal with Highly Efficient Orange Emission. Matter, 2020, 3, 892-903.	10.0	133
15	Amorphous TiO <sub>2</sub> -Encapsulated CsPbBr <sub>3</sub> Nanocrystal Composite Photocatalyst with Enhanced Charge Separation and CO <sub>2</sub> Fixation. Advanced Materials Interfaces, 2018, 5, 1801015.	3.7	125
16	Understanding of carrier dynamics, heterojunction merits and device physics: towards designing efficient carrier transport layer-free perovskite solar cells. Chemical Society Reviews, 2020, 49, 354-381.	38.1	125
17	Hierarchical CsPbBr <sub>3</sub> nanocrystal-decorated ZnO nanowire/macroporous graphene hybrids for enhancing charge separation and photocatalytic CO <sub>2</sub> reduction. Journal of Materials Chemistry A, 2019, 7, 13762-13769.	10.3	115
18	An Overview for Zero-Dimensional Broadband Emissive Metal-Halide Single Crystals. Advanced Optical Materials, 2021, 9, 2100544.	7.3	114

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19	Enhanced On-Off Ratio Photodetectors Based on Lead-Free Cs <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> Single Crystal Thin Films. <i>Advanced Functional Materials</i> , 2020, 30, 1909701.	14.9	96
20	Recent Advances in Halide Perovskite Single-Crystal Thin Films: Fabrication Methods and Optoelectronic Applications. <i>Solar Rrl</i> , 2019, 3, 1800294.	5.8	94
21	Conformal coating of ultrathin metal-organic framework on semiconductor electrode for boosted photoelectrochemical water oxidation. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 9-17.	20.2	82
22	High-performance light-driven heterogeneous CO <sub>2</sub> catalysis with near-unity selectivity on metal phosphides. <i>Nature Communications</i> , 2020, 11, 5149.	12.8	82
23	Enhanced efficacy of defect passivation and charge extraction for efficient perovskite photovoltaics with a small open circuit voltage loss. <i>Journal of Materials Chemistry A</i> , 2019, 7, 9025-9033.	10.3	71
24	Plasmonic CsPbBr <sub>3</sub> -Au nanocomposite for excitation wavelength dependent photocatalytic CO <sub>2</sub> reduction. <i>Journal of Energy Chemistry</i> , 2021, 53, 309-315.	12.9	70
25	Activation of Self-Trapped Emission in Stable Bismuth-Halide Perovskite by Suppressing Strong Exciton-Phonon Coupling. <i>Advanced Functional Materials</i> , 2021, 31, 2102654.	14.9	67
26	CsPbBr <sub>3</sub> Nanocrystal/MO <sub>2</sub> (M = Si, Ti, Sn) Composites: Insight into Charge-Carrier Dynamics and Photoelectrochemical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 42301-42309.	8.0	66
27	The top-down synthesis of single-layered Cs <sub>4</sub> CuSb <sub>2</sub> Cl <sub>12</sub> halide perovskite nanocrystals for photoelectrochemical application. <i>Nanoscale</i> , 2019, 11, 5180-5187.	5.6	65
28	Suppressing Interfacial Charge Recombination in Electron-Transport-Layer-Free Perovskite Solar Cells to Give an Efficiency Exceeding 21%. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20980-20987.	13.8	65
29	Surface passivated halide perovskite single-crystal for efficient photoelectrochemical synthesis of dimethoxydihydrofuran. <i>Nature Communications</i> , 2021, 12, 1202.	12.8	58
30	A Highly Red-Emissive Lead-Free Indium-Based Perovskite Single Crystal for Sensitive Water Detection. <i>Angewandte Chemie</i> , 2019, 131, 5331-5335.	2.0	57
31	Large-scale planar and spherical light-emitting diodes based on arrays of perovskite quantum wires. <i>Nature Photonics</i> , 2022, 16, 284-290.	31.4	56
32	Self-assembled lead-free double perovskite-MXene heterostructure with efficient charge separation for photocatalytic CO <sub>2</sub> reduction. <i>Applied Catalysis B: Environmental</i> , 2022, 312, 121358.	20.2	53
33	Immobilizing Re(CO) <sub>3</sub> Br(dcbpy) Complex on CsPbBr <sub>3</sub> Nanocrystal for Boosted Charge Separation and Photocatalytic CO <sub>2</sub> Reduction. <i>Solar Rrl</i> , 2020, 4, 1900365.	5.8	51
34	Maze-Like Halide Perovskite Films for Efficient Electron Transport Layer-Free Perovskite Solar Cells. <i>Solar Rrl</i> , 2019, 3, 1800268.	5.8	49
35	Inorganic cesium lead halide CsPbX <sub>3</sub> nanowires for long-term stable solar cells. <i>Science China Materials</i> , 2017, 60, 285-294.	6.3	48
36	Spontaneous surface/interface ligand-anchored functionalization for extremely high fill factor over 86% in perovskite solar cells. <i>Nano Energy</i> , 2020, 75, 104929.	16.0	47

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37	Perovskite crystals redissolution strategy for affordable, reproducible, efficient and stable perovskite photovoltaics. <i>Materials Today</i> , 2021, 50, 199-223.	14.2	43
38	Branched titania nanostructures for efficient energy conversion and storage: A review on design strategies, structural merits and multifunctionalities. <i>Nano Energy</i> , 2019, 62, 791-809.	16.0	41
39	Te <sup>4+</sup> -doped Cs <sub>2</sub> InCl <sub>5</sub> ·H <sub>2</sub> O single crystals for remote optical thermometry. <i>Science China Materials</i> , 2022, 65, 764-772.	6.3	38
40	Suppressing Interfacial Charge Recombination in Electron-Transport-Layer-Free Perovskite Solar Cells to Give an Efficiency Exceeding 21%. <i>Angewandte Chemie</i> , 2020, 132, 21166-21173.	2.0	36
41	Iron-assisted engineering of molybdenum phosphide nanowires on carbon cloth for efficient hydrogen evolution in a wide pH range. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22790-22796.	10.3	34
42	Constructing CsPbBr <sub>3</sub> /I <sub>3</sub> <sup>-</sup> nanocrystal/carbon nanotube composites with improved charge transfer and light harvesting for enhanced photoelectrochemical activity. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5409-5415.	10.3	34
43	The Rise of Textured Perovskite Morphology: Revolutionizing the Pathway toward High-Performance Optoelectronic Devices. <i>Advanced Energy Materials</i> , 2020, 10, 1902256.	19.5	34
44	High Photoluminescence Quantum Yield (>95%) of MAPbBr <sub>3</sub> Nanocrystals via Reprecipitation from Methylamine-MAPbBr <sub>3</sub> Liquid. <i>ACS Applied Electronic Materials</i> , 2020, 2, 2707-2715.	4.3	22
45	Synchronous surface and bulk composition management for red-shifted light absorption and suppressed interfacial recombination in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 9743-9752.	10.3	22
46	A laminar MAPbBr <sub>3</sub> /MAPbBr <sub>3</sub> -xI <sub>3</sub> graded heterojunction single crystal for enhancing charge extraction and optoelectronic performance. <i>Journal of Materials Chemistry C</i> , 2019, 7, 5670-5676.	5.5	20
47	Construction of a ternary WO <sub>3</sub> /CsPbBr <sub>3</sub> /ZIF-67 heterostructure for enhanced photocatalytic carbon dioxide reduction. <i>Science China Materials</i> , 2022, 65, 1550-1559.	6.3	19
48	Strongly Quantum-Confined Perovskite Nanowire Arrays for Color-Tunable Blue-Light-Emitting Diodes. <i>ACS Nano</i> , 2022, 16, 8388-8398.	14.6	19
49	Bifacial Contact Junction Engineering for High-Performance Perovskite Solar Cells with Efficiency Exceeding 21%. <i>Small</i> , 2019, 15, 1900606.	10.0	15
50	Emission-Color-Tunable Pb-Sn Alloyed Single Crystals with High Luminescent Efficiency and Stability. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	15
51	A facile method to fabricate high-quality perovskite nanocrystals based on single crystal powder. <i>Nano Research</i> , 2019, 12, 2640-2645.	10.4	12
52	Layered-stacking of titania films for solar energy conversion: Toward tailored optical, electronic and photovoltaic performance. <i>Journal of Energy Chemistry</i> , 2018, 27, 690-702.	12.9	10
53	Recent Advances in Halide Perovskite Single-Crystal Thin Films: Fabrication Methods and Optoelectronic Applications (Solar RRL 4 <sup>th</sup> •2019). <i>Solar Rrl</i> , 2019, 3, 1970044.	5.8	5
54	Optoelectronic Devices: The Rise of Textured Perovskite Morphology: Revolutionizing the Pathway toward High-Performance Optoelectronic Devices (Adv. Energy Mater. 7/2020). <i>Advanced Energy Materials</i> , 2020, 10, 2070029.	19.5	1