

Jiandong Fan

List of Publications by Year in descending order

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78
papers

4,602
citations

136740

32
h-index

98622

67
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all docs

78
docs citations

78
times ranked

6559
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced UV-light stability of planar heterojunction perovskite solar cells with caesium bromide interface modification. <i>Energy and Environmental Science</i> , 2016, 9, 490-498.	15.6	535
2	All-Inorganic CsPb ₂ Br Perovskite Solar Cells with High Efficiency Exceeding 13%. <i>Journal of the American Chemical Society</i> , 2018, 140, 3825-3828.	6.6	505
3	Controllable Grain Morphology of Perovskite Absorber Film by Molecular Self-Assembly toward Efficient Solar Cell Exceeding 17%. <i>Journal of the American Chemical Society</i> , 2015, 137, 10399-10405.	6.6	347
4	Additive-assisted construction of all-inorganic CsSnBr ₂ mesoscopic perovskite solar cells with superior thermal stability up to 473 K. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17104-17110.	5.2	250
5	Structurally Reconstructed CsPb ₂ Br Perovskite for Highly Stable and Square-Centimeter All-Inorganic Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2019, 9, 1803572.	10.2	192
6	Ultra-thin MoO _x as cathode buffer layer for the improvement of all-inorganic CsPbBr ₂ perovskite solar cells. <i>Nano Energy</i> , 2017, 41, 75-83.	8.2	190
7	Thermodynamically Self-Healing 1D-3D Hybrid Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1703421.	10.2	158
8	Nonlinear Optical Response of Organic-Inorganic Halide Perovskites. <i>ACS Photonics</i> , 2016, 3, 371-377.	3.2	154
9	Core-Shell Nanoparticles As Building Blocks for the Bottom-Up Production of Functional Nanocomposites: PbTe-PbS Thermoelectric Properties. <i>ACS Nano</i> , 2013, 7, 2573-2586.	7.3	137
10	In Situ Regulating the Order-Disorder Phase Transition in Cs ₂ AgBiBr ₆ Single Crystal toward the Application in an X-Ray Detector. <i>Advanced Functional Materials</i> , 2019, 29, 1900234.	7.8	114
11	Morphology evolution of Cu ₂ xS nanoparticles: from spheres to dodecahedrons. <i>Chemical Communications</i> , 2011, 47, 10332.	2.2	107
12	Antimony-Based Ligand Exchange To Promote Crystallization in Spray-Deposited Cu ₂ ZnSnSe ₄ Solar Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 15982-15985.	6.6	107
13	Perovskite-based low-cost and high-efficiency hybrid halide solar cells. <i>Photonics Research</i> , 2014, 2, 111.	3.4	89
14	Highly Efficient Perovskite Solar Cells with Substantial Reduction of Lead Content. <i>Scientific Reports</i> , 2016, 6, 35705.	1.6	86
15	Hysteretic Behavior upon Light Soaking in Perovskite Solar Cells Prepared via Modified Vapor-Assisted Solution Process. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 9066-9071.	4.0	84
16	<i>In situ</i> induced core/shell stabilized hybrid perovskites via gallium(acetylacetonate) intermediate towards highly efficient and stable solar cells. <i>Energy and Environmental Science</i> , 2018, 11, 286-293.	15.6	79
17	Influence of the Annealing Atmosphere on the Performance of ZnO Nanowire Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16349-16356.	1.5	74
18	Lattice vibration spectra and thermal properties of SrWO ₄ single crystal. <i>Chemical Physics Letters</i> , 2006, 426, 85-90.	1.2	72

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19	C ₆₀ additive-assisted crystallization in CH ₃ NH ₃ Pb _{0.75} Sn _{0.25} I ₃ perovskite solar cells with high stability and efficiency. <i>Nanoscale</i> , 2017, 9, 13967-13975.	2.8	71
20	Means and Limits of Control of the Shell Parameters in Hollow Nanoparticles Obtained by the Kirkendall Effect. <i>Chemistry of Materials</i> , 2011, 23, 3095-3104.	3.2	67
21	Cobalt(II/III) Redox Electrolyte in ZnO Nanowire-Based Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1902-1906.	4.0	64
22	Control of the doping concentration, morphology and optoelectronic properties of vertically aligned chlorine-doped ZnO nanowires. <i>Acta Materialia</i> , 2011, 59, 6790-6800.	3.8	57
23	Structural and thermal properties of the monoclinic Lu ₂ SiO ₅ single crystal: evaluation as a new laser matrix. <i>Journal of Applied Crystallography</i> , 2009, 42, 284-294.	1.9	54
24	Lattice-Matching Structurally Stable 1D@3D Perovskites toward Highly Efficient and Stable Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903654.	10.2	50
25	An Emerging Lead-Free Double-Perovskite Cs ₂ AgFeCl ₆ :In Single Crystal. <i>Advanced Functional Materials</i> , 2020, 30, 2002225.	7.8	48
26	Spectroscopic properties and continuous-wave laser operation of a new disordered crystal: Yb-doped CNGG. <i>Optics Express</i> , 2007, 15, 9464.	1.7	46
27	Growth, structure and thermal properties of Yb ³⁺ -doped NaGd(WO ₄) ₂ crystal. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 1034-1041.	1.3	45
28	Giant Two-Photon Absorption in Mixed Halide Perovskite CH ₃ NH ₃ Pb _{0.75} Sn _{0.25} I ₃ Thin Films and Application to Photodetection at Optical Communication Wavelengths. <i>Advanced Optical Materials</i> , 2018, 6, 1700819.	3.6	44
29	A brief review on the lead element substitution in perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2018, 27, 1054-1066.	7.1	38
30	Structurally Stabilizing and Environment Friendly Triggers: Double-Metallic Lead-Free Perovskites. <i>Solar Rrl</i> , 2019, 3, 1900148.	3.1	36
31	Chromium-Based Metal-Organic Framework as A-Site Cation in CsPb ₂ Br Perovskite Solar Cells. <i>Advanced Functional Materials</i> , 2021, 31, 2106233.	7.8	36
32	Controllable Cs _x FA _{1-x} Pb ₃ Single-Crystal Morphology via Rationally Regulating the Diffusion and Collision of Micelles toward High-Performance Photon Detectors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 13812-13821.	4.0	35
33	Aquointermediate Assisted Highly Orientated Perovskite Thin Films toward Thermally Stable and Efficient Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1601433.	10.2	34
34	Visible Photoluminescence Components of Solution-Grown ZnO Nanowires: Influence of the Surface Depletion Layer. <i>Journal of Physical Chemistry C</i> , 2012, 116, 19496-19502.	1.5	33
35	Lead-free metal-halide double perovskites: from optoelectronic properties to applications. <i>Nanophotonics</i> , 2021, 10, 2181-2219.	2.9	33
36	Electrochemical grafting passivation of silicon via electron transfer at polymer/silicon hybrid interface. <i>Electrochimica Acta</i> , 2017, 247, 826-834.	2.6	29

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37	High Performance of Perovskite Solar Cells via Catalytic Treatment in Two-Step Process: The Case of Solvent Engineering. ACS Applied Materials & Interfaces, 2016, 8, 30107-30115.	4.0	28
38	Silicon surface passivation by polystyrenesulfonate thin films. Applied Physics Letters, 2017, 110, .	1.5	28
39	Molecular Self-Assembly Fabrication and Carrier Dynamics of Stable and Efficient CH ₃ NH ₃ Pb(1-x)Sn _x Perovskite Solar Cells. ChemSusChem, 2017, 10, 3839-3845.	3.6	28
40	Solution-growth and optoelectronic performance of ZnO:Cl/TiO ₂ and ZnO:Cl/Zn _x TiO _y /TiO ₂ core-shell nanowires with tunable shell thickness. Journal Physics D: Applied Physics, 2012, 45, 415301.	1.3	27
41	Hole selective materials and device structures of heterojunction solar cells: Recent assessment and future trends. APL Materials, 2019, 7, .	2.2	27
42	Engineered Electronic Structure and Carrier Dynamics in Emerging Cs ₂ Ag _x Na _{1-x} FeCl ₆ Perovskite Single Crystals. Journal of Physical Chemistry Letters, 2020, 11, 9535-9542.	2.1	27
43	Solution-growth and optoelectronic properties of ZnO:Cl@ZnS core-shell nanowires with tunable shell thickness. Journal of Alloys and Compounds, 2013, 555, 213-218.	2.8	25
44	Enhancement of the photoelectrochemical properties of Cl-doped ZnO nanowires by tuning their coaxial doping profile. Applied Physics Letters, 2011, 99, .	1.5	24
45	Enhanced Photovoltaic Performance of Nanowire Dye-Sensitized Solar Cells Based on Coaxial TiO ₂ @TiO Heterostructures with a Cobalt(II/III) Redox Electrolyte. ACS Applied Materials & Interfaces, 2013, 5, 9872-9877.	4.0	24
46	∞-∞ conjugate structure enabling the channel construction of carrier-facilitated transport in 1D∞3D multidimensional CsPbI ₂ Br solar cells with high stability. Nano Energy, 2021, 89, 106340.	8.2	20
47	Efficiency enhancement of Cu ₂ ZnSnS ₄ solar cells via surface treatment engineering. Royal Society Open Science, 2018, 5, 171163.	1.1	19
48	Alleviation of ∞* Transition Enabling Enhanced Luminescence in Emerging TpyInCl _x (x= 3, 5) Perovskite Single Crystals. Advanced Optical Materials, 2022, 10, .	3.6	19
49	Solution-Processed One-Dimensional ZnO@CdS Heterojunction toward Efficient Cu ₂ ZnSnS ₄ Solar Cell with Inverted Structure. Scientific Reports, 2016, 6, 35300.	1.6	18
50	Architecturing 1D∞2D∞3D Multidimensional Coupled CsPbI ₂ Br Perovskites toward Highly Effective and Stable Solar Cells. Small, 2021, 17, e2100888.	5.2	17
51	A Yb ³⁺ -doped NaY(WO ₄) ₂ crystal grown by the Czochralski technique. Journal of Applied Crystallography, 2008, 41, 584-591.	1.9	16
52	An Emerging All-Inorganic CsSn _x Pb _{1-x} Br ₃ (0 ≤ x ≤ 1) Tj ETQq0 0 0 rgBT /Overlock 1 Properties. Journal of Physical Chemistry C, 2020, 124, 13434-13446.	1.5	16
53	Regulation of the order-disorder phase transition in a Cs ₂ NaFeCl ₆ double perovskite towards reversible thermochromic application. Journal of Semiconductors, 2021, 42, 072202.	2.0	15
54	On the light-induced enhancement in photovoltaic performance of PEDOT:PSS/Si organic-inorganic hybrid solar cells. Applied Physics Letters, 2017, 111, 183904.	1.5	13

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55	Growth and optical properties of self-frequency-doubling laser crystal Yb:LuAl ₃ (BO ₃) ₄ . <i>Journal of Crystal Growth</i> , 2009, 311, 4251-4254.	0.7	12
56	Fine-tuning the coordination atoms of copper redox mediators: an effective strategy for boosting the photovoltage of dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12808-12814.	5.2	12
57	Atomic Force Microscopy Studies on {101} Surfaces of L-arginine Trifluoroacetate Single Crystals. <i>Journal of Physical Chemistry C</i> , 2007, 111, 14165-14169.	1.5	10
58	Enhanced charge collection and stability in planar perovskite solar cells based on a cobalt(III)-complex additive. <i>RSC Advances</i> , 2017, 7, 37654-37658.	1.7	9
59	L-Argininium(+) maleate dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, o2805-o2807.	0.2	7
60	Crystallization Dependent Stability of Perovskite Solar Cells With Different Hole Transporting Layers. <i>Solar Rrl</i> , 2017, 1, 1700141.	3.1	7
61	Terpyridine-derived perovskite single crystals with tunable structures and electronic dimensionality. <i>RSC Advances</i> , 2021, 11, 24816-24821.	1.7	7
62	Electron Delocalization and Structure Coupling Promoted π -Conjugated Charge Transport in a Novel [Ga-Tpy] ₂ Pb ₅ Perovskite-like Single Crystal. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5571-5579.	2.1	7
63	Enhanced Charge Transport by Regulating the Electronic Structure in 2D Tin-Based Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2022, 126, 9425-9436.	1.5	6
64	Multiple Electronic Transition-Induced Anomalous Broadband Absorption in a New Class of [Ni-Tpy] ₂ -Based Lead-Free Perovskite Single Crystals. <i>Journal of Physical Chemistry C</i> , 2021, 125, 15579-15589.	1.5	5
65	Improving the Passivation Stability of a Polymer Thin Film on Si by the Introduction of MoO ₃ Nanoparticles Into the Polymer Matrix. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017, 11, 1700206.	1.2	4
66	Multidimensional perovskites enhance solar cell performance. <i>Journal of Semiconductors</i> , 2021, 42, 020201.	2.0	4
67	Synthesis of polycrystalline materials of SrWO ₄ and growth of its single crystal. <i>Frontiers of Chemistry in China: Selected Publications From Chinese Universities</i> , 2006, 1, 264-267.	0.4	3
68	Highly crystalline hydrothermal ZnO nanowires as photoanodes in DSCs. <i>International Journal of Nanotechnology</i> , 2014, 11, 747.	0.1	3
69	Electrical and hysteric properties of organic compound-based humidity sensor and its dualistic interactive approach to H ₂ O molecules. <i>Materials Today Communications</i> , 2021, 29, 102882.	0.9	3
70	Sodium isocyanurate monohydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, m1463-m1464.	0.2	2
71	Flux growth of KGaP ₂ O ₇ single crystals. <i>Materials Letters</i> , 2008, 62, 3352-3354.	1.3	2
72	L-Lysinium trifluoroacetate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o393-o394.	0.2	2

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73	Crystal structure of bis(4-bromophenylamminium) tetraiodoplumbate(II), (BrC ₆ H ₄ NH ₃) ₂ PbI ₄ . Zeitschrift Fur Kristallographie - New Crystal Structures, 2009, 224, .	0.1	2
74	Picolylamine Isomers Trigger Multidimension Coupling Strategy toward Efficient and Stable Inorganic Perovskite Solar Cells. Solar Rrl, 0, , .	3.1	2
75	(E)-4-(Nicotinoylhydrazono)pentanoic acid. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o4655-o4655.	0.2	1
76	Improving the Passivation Stability of a Polymer Thin Film on Si by the Introduction of MoO ₃ Nanoparticles Into the Polymer Matrix (Phys. Status Solidi RRL 9/2017). Physica Status Solidi - Rapid Research Letters, 2017, 11, 1770347.	1.2	1
77	Triphenyl-n-propylphosphonium bis(2-thioxo-1,3-dithiole-4,5-dithiolato)aurate(III). Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m2529-m2530.	0.2	0
78	Crystal structure of bis(4-methylpyridinium) hexachlorotin(IV), (C ₆ H ₈ N) ₂ SnCl ₆ . Zeitschrift Fur Kristallographie - New Crystal Structures, 2009, 224, .	0.1	0