

Xiya Yang

List of Publications by Year in descending order

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63
papers

3,521
citations

126708

33
h-index

138251

58
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63
all docs

63
docs citations

63
times ranked

2916
citing authors

#	ARTICLE	IF	CITATIONS
1	Lanthanide Ions Doped CsPbBr ₃ Halides for HTM-Free 10.14% Efficiency Inorganic Perovskite Solar Cell with an Ultrahigh Open-Circuit Voltage of 1.594 V. <i>Advanced Energy Materials</i> , 2018, 8, 1802346.	10.2	387
2	All-inorganic CsPbBr ₃ perovskite solar cell with 10.26% efficiency by spectra engineering. <i>Journal of Materials Chemistry A</i> , 2018, 6, 24324-24329.	5.2	182
3	Tailored Lattice "Tape" to Confine Tensile Interface for 11.08% Efficiency All-Inorganic CsPbBr ₃ Perovskite Solar Cell with an Ultrahigh Voltage of 1.702 V. <i>Advanced Science</i> , 2021, 8, e2101418.	5.6	161
4	Interfacial Strain Release from the WS ₂ /CsPbBr ₃ van der Waals Heterostructure for 1.7 V Voltage All-Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21997-22001.	7.2	149
5	Inorganic perovskite solar cells: an emerging member of the photovoltaic community. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21036-21068.	5.2	137
6	Review on recent progress of lead-free halide perovskites in optoelectronic applications. <i>Nano Energy</i> , 2021, 80, 105526.	8.2	130
7	Alkyl-Chain-Regulated Charge Transfer in Fluorescent Inorganic CsPbBr ₃ Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4391-4395.	7.2	122
8	Precise stress control of inorganic perovskite films for carbon-based solar cells with an ultrahigh voltage of 1.622 V. <i>Nano Energy</i> , 2020, 67, 104286.	8.2	119
9	Hole-Boosted Cu(Cr,M)O ₂ Nanocrystals for All-Inorganic CsPbBr ₃ Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16147-16151.	7.2	118
10	Divalent hard Lewis acid doped CsPbBr ₃ films for 9.63%-efficiency and ultra-stable all-inorganic perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 6877-6882.	5.2	96
11	Water tank triboelectric nanogenerator for efficient harvesting of water wave energy over a broad frequency range. <i>Nano Energy</i> , 2018, 44, 388-398.	8.2	91
12	p-Type Charge Transfer Doping of Graphene Oxide with (NiCo) _{1-x} Fe _x O ₂ for Air-Stable, All-Inorganic CsPbBr ₂ Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10608-10613.	7.2	89
13	Nodding Duck Structure Multi-track Directional Freestanding Triboelectric Nanogenerator toward Low-Frequency Ocean Wave Energy Harvesting. <i>ACS Nano</i> , 2021, 15, 9412-9421.	7.3	89
14	Triboelectric and Piezoelectric Effects in a Combined Tribo-Piezoelectric Nanogenerator Based on an Interfacial ZnO Nanostructure. <i>Advanced Functional Materials</i> , 2016, 26, 8194-8201.	7.8	87
15	Using SnO ₂ QDs and CsMBr ₃ (M = Sn, Bi, Cu) QDs as Charge-Transporting Materials for 10.6% Efficiency All-Inorganic CsPbBr ₃ Perovskite Solar Cells with an Ultrahigh Open-Circuit Voltage of 1.610 V. <i>Solar Rrl</i> , 2019, 3, 1800284.	3.1	84
16	The unique dielectricity of inorganic perovskites toward high-performance triboelectric nanogenerators. <i>Nano Energy</i> , 2020, 69, 104418.	8.2	73
17	Cumulative charging behavior of water droplet driven freestanding triboelectric nanogenerators toward hydrodynamic energy harvesting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7880-7888.	5.2	69
18	Nanowrinkle-patterned flexible woven triboelectric nanogenerator toward self-powered wearable electronics. <i>Nano Energy</i> , 2020, 73, 104797.	8.2	66

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19	Boosting power conversion efficiency by hybrid triboelectric nanogenerator/silicon tandem solar cell toward rain energy harvesting. <i>Nano Energy</i> , 2021, 82, 105773.	8.2	62
20	Apples or oranges? Identification of fundamental load shape profiles for benchmarking buildings using a large and diverse dataset. <i>Applied Energy</i> , 2019, 236, 1280-1295.	5.1	61
21	Spray-assisted deposition of CsPbBr ₃ films in ambient air for large-area inorganic perovskite solar cells. <i>Materials Today Energy</i> , 2018, 10, 146-152.	2.5	57
22	Universal Dynamic Liquid Interface for Healing Perovskite Solar Cells. <i>Advanced Materials</i> , 2022, 34, e2202301.	11.1	57
23	Alkali Metal Ion-Regulated Lead-free, All-Inorganic Double Perovskites for HTM-free, Carbon-Based Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47408-47415.	4.0	54
24	Thermal-Triggered Dynamic Disulfide Bond Self-Heals Inorganic Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	7.2	52
25	Synergetic effects in composite-based flexible hybrid mechanical energy harvesting generator. <i>Journal of Materials Chemistry A</i> , 2017, 5, 9113-9121.	5.2	49
26	Interfacial Strain Release from the WS ₂ /CsPbBr ₃ van der Waals Heterostructure for 1.7â€¦V Voltage All-Inorganic Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2020, 132, 22181-22185.	1.6	47
27	Self-powered seesaw structured spherical buoys based on a hybrid triboelectricâ€“electromagnetic nanogenerator for sea surface wireless positioning. <i>Energy and Environmental Science</i> , 2022, 15, 621-632.	15.6	47
28	Tailoring all-inorganic cesium lead halide perovskites for robust triboelectric nanogenerators. <i>Nano Energy</i> , 2020, 70, 104514.	8.2	46
29	Interfacial electric field enhanced charge density for robust triboelectric nanogenerators by tailoring metal/perovskite Schottky junction. <i>Nano Energy</i> , 2020, 73, 104747.	8.2	42
30	Triboelectric charging behaviors and photoinduced enhancement of alkaline earth ions doped inorganic perovskite triboelectric nanogenerators. <i>Nano Energy</i> , 2020, 77, 105280.	8.2	39
31	Organic hole-transporting materials for 9.32%-efficiency and stable CsPbBr ₃ perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2018, 2, 2239-2244.	3.2	38
32	Lattice-tailored low-temperature processed electron transporting materials boost the open-circuit voltage of planar CsPbBr ₃ perovskite solar cells up to 1.654 V. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11859-11866.	5.2	37
33	High power-output mechanical energy harvester based on flexible and transparent Au nanoparticle-embedded polymer matrix. <i>Nano Energy</i> , 2019, 55, 433-440.	8.2	36
34	Charge boosting and storage by tailoring rhombus all-inorganic perovskite nanoarrays for robust triboelectric nanogenerators. <i>Nano Energy</i> , 2020, 74, 104845.	8.2	36
35	10.34%-efficient integrated CsPbBr ₃ /bulk-heterojunction solar cells. <i>Journal of Power Sources</i> , 2019, 440, 227151.	4.0	35
36	Triboelectric sensor array for internet of things based smart traffic monitoring and management system. <i>Nano Energy</i> , 2022, 92, 106757.	8.2	35

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37	Co/Se and Ni/Se nanocomposite films prepared by magnetron sputtering as counter electrodes for dye-sensitized solar cells. <i>Solar Energy</i> , 2019, 180, 85-91.	2.9	34
38	Photoactivated transition metal dichalcogenides to boost electron extraction for all-inorganic tri-brominated planar perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 7784-7791.	5.2	31
39	Dielectric Hole Collector toward Boosting Charge Transfer of CsPbBr ₃ Hybrid Nanogenerator by Coupling Triboelectric and Photovoltaic Effects. <i>Advanced Functional Materials</i> , 2021, 31, 2101348.	7.8	30
40	Enhanced charge extraction with all-carbon electrodes for inorganic CsPbBr ₃ perovskite solar cells. <i>Dalton Transactions</i> , 2018, 47, 15283-15287.	1.6	28
41	Hole-Boosted Cu(Cr,M)O ₂ Nanocrystals for All-Inorganic CsPbBr ₃ Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019, 131, 16293-16297.	1.6	25
42	Understanding steric-charge-dependence of conjugated passivators on Pb ²⁺ bond strength for efficient all-inorganic perovskite solar cells. <i>Chemical Engineering Journal</i> , 2022, 431, 134230.	6.6	24
43	Mechanical energy harvester based on cashmere fibers. <i>Journal of Materials Chemistry A</i> , 2018, 6, 11198-11204.	5.2	22
44	Halogen regulation of inorganic perovskites toward robust triboelectric nanogenerators and charging polarity series. <i>Journal of Materials Chemistry A</i> , 2020, 8, 14299-14307.	5.2	21
45	Crystal-Plane Controlled Spontaneous Polarization of Inorganic Perovskite toward Boosting Triboelectric Surface Charge Density. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 26196-26203.	4.0	21
46	Bulk Pt/CsPbBr ₃ Schottky junctions for charge boosting in robust triboelectric nanogenerators. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11966-11975.	5.2	20
47	Tri-functionalized TiO ₂ accessory layer to boost efficiency of hole-free, all-inorganic perovskite solar cells. <i>Journal of Energy Chemistry</i> , 2020, 50, 1-8.	7.1	20
48	In-situ high-efficiency PM capture from motor vehicle exhaust based on self-powered ceramic porous triboelectric filter. <i>Nano Energy</i> , 2022, 96, 107107.	8.2	17
49	Alkyl-Chain-Regulated Charge Transfer in Fluorescent Inorganic CsPbBr ₃ Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2020, 132, 4421-4425.	1.6	16
50	Triboelectric behaviors of inorganic Cs _x Ag _x PbBr ₃ halide perovskites toward enriching the triboelectric series. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25696-25705.	5.2	16
51	Reducing defect of inorganic perovskite film by sulphur-containing Lewis base for robust photodetectors. <i>Journal of Energy Chemistry</i> , 2021, 61, 163-169.	7.1	16
52	Laminated triboelectric acoustic energy harvester based on electrospun nanofiber towards real-time noise decibel monitoring. <i>Nano Energy</i> , 2022, 99, 107348.	8.2	16
53	High-Efficiency All-Inorganic Perovskite Solar Cells Tailored by Scalable Rutile TiO ₂ Nanorod Arrays with Excellent Stability. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 12091-12098.	4.0	15
54	Ternary hybrid PtM@polyaniline (M = Ni, FeNi) counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2018, 291, 114-123.	2.6	11

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55	Photo-induced charge boosting of liquid–solid electrokinetic generators for efficient wave energy harvesting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5373-5380.	5.2	11
56	Amidation induced self-reduction of p-GO with Lewis-base termination for all-inorganic CsPbBr ₂ perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 25418-25425.	5.2	10
57	Flexible, All-Inorganic CsPbBr ₃ Perovskite Solar Cells Tailored by Heat-Resistant Muscovite Substrates. <i>ChemSusChem</i> , 2021, 14, 1512-1516.	3.6	10
58	Design parameters impact on output characteristics of flexible hybrid energy harvesting generator: Experimental and theoretical simulation based on a parallel hybrid model. <i>Nano Energy</i> , 2018, 50, 794-806.	8.2	9
59	Cluster effect of additives in precursors for inorganic perovskites solar cells. <i>Electrochimica Acta</i> , 2020, 331, 135379.	2.6	9
60	p-Type Charge Transfer Doping of Graphene Oxide with (NiCo) _{1-x} Fe _y O _x for Air-Stable, All-Inorganic CsPbBr ₂ Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2021, 133, 10702-10707.	1.6	6
61	Thermally Triggered Dynamic Disulfide Bond Self-Heals Inorganic Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2022, 134, .	1.6	2
62	Nanogenerators: Triboelectric and Piezoelectric Effects in a Combined Tribo-Piezoelectric Nanogenerator Based on an Interfacial ZnO Nanostructure (<i>Adv. Funct. Mater.</i> 45/2016). <i>Advanced Functional Materials</i> , 2016, 26, 8355-8355.	7.8	1
63	Using SnO ₂ QDs and CsMBr ₃ (M = Sn, Bi, Cu) QDs as Charge-Transporting Materials for 10.6%-Efficiency All-Inorganic CsPbBr ₃ Perovskite Solar Cells with an Ultrahigh Open-Circuit Voltage of 1.610 V (Solar) <i>Tj ETQq1 1 03784314 rgBT /Ove</i>		