Xiya Yang

List of Publications by Year
in descending order

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63	3,521	126708	138251
papers	citations	33 h-index	58 g-index

63	63	63	2916
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-powered seesaw structured spherical buoys based on a hybrid triboelectricâ€“electromagnetic nanogenerator for sea surface wireless positioning. Energy and Environmental Science, 2022, 15, 621-632.	15.6	47
2	Triboelectric sensor array for internet of things based smart traffic monitoring and management system. Nano Energy, 2022, 92, 106757.	8.2	35
3	Thermalâ€Triggered Dynamic Disulfide Bond Selfâ€Heals Inorganic Perovskite Solar Cells. Angewandte Chemie, 2022, 134, .	1.6	2
4	Understanding steric-charge-dependence of conjugated passivators on Ï€-Pb2+ bond strength for efficient all-inorganic perovskite solar cells. Chemical Engineering Journal, 2022, 431, 134230.	6.6	24
5	Thermalâ€Triggered Dynamic Disulfide Bond Selfâ€Heals Inorganic Perovskite Solar Cells. Angewandte Chemie - International Edition, 2022, 61, .	7.2	52
6	In-situ high-efficiency PM capture from motor vehicle exhaust based on self-powered ceramic porous triboelectric filter. Nano Energy, 2022, 96, 107107.	8.2	17
7	Universal Dynamic Liquid Interface for Healing Perovskite Solar Cells. Advanced Materials, 2022, 34, e2202301.	11.1	57
8	Laminated triboelectric acoustic energy harvester based on electrospun nanofiber towards real-time noise decibel monitoring. Nano Energy, 2022, 99, 107348.	8.2	16
9	Review on recent progress of lead-free halide perovskites in optoelectronic applications. Nano Energy, 2021, 80, 105526.	8.2	130
10	Amidation induced self-reduction of p-GO with Lewis-base termination for all-inorganic CsPbIBr₂perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 25418-25425.	5.2	10
11	Flexible, Allâ€Inorganic CsPbBr₃ Perovskite Solar Cells Tailored by Heatâ€resistant Muscovite Substrates. ChemSusChem, 2021, 14, 1512-1516.	3.6	10
12	pâ€Type Charge Transfer Doping of Graphene Oxide with (NiCo)_{1â^'y}Fe_yO_x for Airâ€Stable, Allâ€Inorganic CsPbIBr₂ Perovskite Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 10608-10613.	7.2	89
13	pâ€Type Charge Transfer Doping of Graphene Oxide with (NiCo)_{1â^'y}Fe_yO_x for Airâ€Stable, Allâ€Inorganic CsPbIBr₂ Perovskite Solar Cells. Angewandte Chemie, 2021, 133, 10702-10707.	1.6	6
14	High-Efficiency All-Inorganic Perovskite Solar Cells Tailored by Scalable Rutile TiO₂ Nanorod Arrays with Excellent Stability. ACS Applied Materials & Interfaces, 2021, 13, 12091-12098.	4.0	15
15	Boosting power conversion efficiency by hybrid triboelectric nanogenerator/silicon tandem solar cell toward rain energy harvesting. Nano Energy, 2021, 82, 105773.	8.2	62
16	Dielectric Hole Collector toward Boosting Charge Transfer of CsPbBr₃ Hybrid Nanogenerator by Coupling Triboelectric and Photovoltaic Effects. Advanced Functional Materials, 2021, 31, 2101348.	7.8	30
17	Nodding Duck Structure Multi-track Directional Freestanding Triboelectric Nanogenerator toward Low-Frequency Ocean Wave Energy Harvesting. ACS Nano, 2021, 15, 9412-9421.	7.3	89
18	Crystal-Plane Controlled Spontaneous Polarization of Inorganic Perovskite toward Boosting Triboelectric Surface Charge Density. ACS Applied Materials & Interfaces, 2021, 13, 26196-26203.	4.0	21

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19	Tailored Lattice â€œTapeâ€•to Confine Tensile Interface for 11.08%â€Efficiency Allâ€Inorganic CsPbBr₃ Perovskite Solar Cell with an Ultrahigh Voltage of 1.702ÂV. Advanced Science, 2021, 8, e2101418.	5.6	161
20	Reducing defect of inorganic perovskite film by sulphur-containing Lewis base for robust photodetectors. Journal of Energy Chemistry, 2021, 61, 163-169.	7.1	16
21	Precise stress control of inorganic perovskite films for carbon-based solar cells with an ultrahigh voltage of 1.622â€¯V. Nano Energy, 2020, 67, 104286.	8.2	119
22	Alkylâ€Chainâ€Regulated Charge Transfer in Fluorescent Inorganic CsPbBr₃ Perovskite Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 4391-4395.	7.2	122
23	Alkylâ€Chainâ€Regulated Charge Transfer in Fluorescent Inorganic CsPbBr 3 Perovskite Solar Cells. Angewandte Chemie, 2020, 132, 4421-4425.	1.6	16
24	The unique dielectricity of inorganic perovskites toward high-performance triboelectric nanogenerators. Nano Energy, 2020, 69, 104418.	8.2	73
25	Cluster effect of additives in precursors for inorganic perovskites solar cells. Electrochimica Acta, 2020, 331, 135379.	2.6	9
26	Alkali Metal Ion-Regulated Lead-free, All-Inorganic Double Perovskites for HTM-free, Carbon-Based Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 47408-47415.	4.0	54
27	Triboelectric charging behaviors and photoinduced enhancement of alkaline earth ions doped inorganic perovskite triboelectric nanogenerators. Nano Energy, 2020, 77, 105280.	8.2	39
28	Interfacial Strain Release from the WS₂/CsPbBr₃ van der Waals Heterostructure for 1.7â€…V Voltage Allâ€Inorganic Perovskite Solar Cells. Angewandte Chemie, 2020, 132, 22181-22185.	1.6	47
29	Interfacial Strain Release from the WS₂/CsPbBr₃ van der Waals Heterostructure for 1.7â€…V Voltage Allâ€Inorganic Perovskite Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 21997-22001.	7.2	149
30	Triboelectric behaviors of inorganic Cs_{1â^'x}A_xPbBr₃ halide perovskites toward enriching the triboelectric series. Journal of Materials Chemistry A, 2020, 8, 25696-25705.	5.2	16
31	Bulk Pt/CsPbBr₃ Schottky junctions for charge boosting in robust triboelectric nanogenerators. Journal of Materials Chemistry A, 2020, 8, 11966-11975.	5.2	20
32	Lattice-tailored low-temperature processed electron transporting materials boost the open-circuit voltage of planar CsPbBr₃ perovskite solar cells up to 1.654 V. Journal of Materials Chemistry A, 2020, 8, 11859-11866.	5.2	37
33	Cumulative charging behavior of water droplet driven freestanding triboelectric nanogenerators toward hydrodynamic energy harvesting. Journal of Materials Chemistry A, 2020, 8, 7880-7888.	5.2	69
34	Halogen regulation of inorganic perovskites toward robust triboelectric nanogenerators and charging polarity series. Journal of Materials Chemistry A, 2020, 8, 14299-14307.	5.2	21
35	Tailoring all-inorganic cesium lead halide perovskites for robust triboelectric nanogenerators. Nano Energy, 2020, 70, 104514.	8.2	46
36	Interfacial electric field enhanced charge density for robust triboelectric nanogenerators by tailoring metal/perovskite Schottky junction. Nano Energy, 2020, 73, 104747.	8.2	42

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37	Photoactivated transition metal dichalcogenides to boost electron extraction for all-inorganic tri-brominated planar perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 7784-7791.	5.2	31
38	Nanowrinkle-patterned flexible woven triboelectric nanogenerator toward self-powered wearable electronics. Nano Energy, 2020, 73, 104797.	8.2	66
39	Tri-functionalized TiO Cl4-2 accessory layer to boost efficiency of hole-free, all-inorganic perovskite solar cells. Journal of Energy Chemistry, 2020, 50, 1-8.	7.1	20
40	Charge boosting and storage by tailoring rhombus all-inorganic perovskite nanoarrays for robust triboelectric nanogenerators. Nano Energy, 2020, 74, 104845.	8.2	36
41	10.34%-efficient integrated CsPbBr3/bulk-heterojunction solar cells. Journal of Power Sources, 2019, 440, 227151.	4.0	35
42	Holeâ€Boosted Cu(Cr,M)O 2 Nanocrystals for Allâ€Inorganic CsPbBr 3 Perovskite Solar Cells. Angewandte Chemie, 2019, 131, 16293-16297.	1.6	25
43	Holeâ€Boosted Cu(Cr,M)O₂ Nanocrystals for Allâ€Inorganic CsPbBr₃ Perovskite Solar Cells. Angewandte Chemie - International Edition, 2019, 58, 16147-16151.	7.2	118
44	Inorganic perovskite solar cells: an emerging member of the photovoltaic community. Journal of Materials Chemistry A, 2019, 7, 21036-21068.	5.2	137
45	Photo-induced charge boosting of liquidâ€“solid electrokinetic generators for efficient wave energy harvesting. Journal of Materials Chemistry A, 2019, 7, 5373-5380.	5.2	11
46	Using SnO2 QDs and CsMBr3 (Mâ€‰=â€‰Sn, Bi, Cu) QDs as Charge-Transporting Materials for 10.6%-Efficiency All-Inorganic CsPbBr3 Perovskite Solar Cells with an Ultrahigh Open-Circuit Voltage of 1.610 V (Solar) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.1	1
47	Co/Se and Ni/Se nanocomposite films prepared by magnetron sputtering as counter electrodes for dye-sensitized solar cells. Solar Energy, 2019, 180, 85-91.	2.9	34
48	Divalent hard Lewis acid doped CsPbBr₃ films for 9.63%-efficiency and ultra-stable all-inorganic perovskite solar cells. Journal of Materials Chemistry A, 2019, 7, 6877-6882.	5.2	96
49	Using SnO₂ QDs and CsMBr₃ (Mâ€‰=â€‰Sn, Bi, Cu) QDs as Chargeâ€Transporting Materials for 10.6%â€Efficiency Allâ€Inorganic CsPbBr₃ Perovskite Solar Cells with an Ultrahigh Openâ€Circuit Voltage of 1.610 V. Solar Rrl, 2019, 3, 1800284.	3.1	84
50	Apples or oranges? Identification of fundamental load shape profiles for benchmarking buildings using a large and diverse dataset. Applied Energy, 2019, 236, 1280-1295.	5.1	61
51	High power-output mechanical energy harvester based on flexible and transparent Au nanoparticle-embedded polymer matrix. Nano Energy, 2019, 55, 433-440.	8.2	36
52	Mechanical energy harvester based on cashmere fibers. Journal of Materials Chemistry A, 2018, 6, 11198-11204.	5.2	22
53	Water tank triboelectric nanogenerator for efficient harvesting of water wave energy over a broad frequency range. Nano Energy, 2018, 44, 388-398.	8.2	91
54	All-inorganic CsPbBr₃ perovskite solar cell with 10.26% efficiency by spectra engineering. Journal of Materials Chemistry A, 2018, 6, 24324-24329.	5.2	182

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55	Organic hole-transporting materials for 9.32%-efficiency and stable CsPbBr₃ perovskite solar cells. Materials Chemistry Frontiers, 2018, 2, 2239-2244.	3.2	38
56	Lanthanide Ions Doped CsPbBr₃ Halides for HTMâ€Free 10.14%â€Efficiency Inorganic Perovskite Solar Cell with an Ultrahigh Openâ€Circuit Voltage of 1.594 V. Advanced Energy Materials, 2018, 8, 1802346.	10.2	387
57	Ternary hybrid PtM@polyaniline (MÂ= Ni, FeNi) counter electrodes for dye-sensitized solar cells. Electrochimica Acta, 2018, 291, 114-123.	2.6	11
58	Enhanced charge extraction with all-carbon electrodes for inorganic CsPbBr₃ perovskite solar cells. Dalton Transactions, 2018, 47, 15283-15287.	1.6	28
59	Spray-assisted deposition of CsPbBr3 films in ambient air for large-area inorganic perovskite solar cells. Materials Today Energy, 2018, 10, 146-152.	2.5	57
60	Design parameters impact on output characteristics of flexible hybrid energy harvesting generator: Experimental and theoretical simulation based on a parallel hybrid model. Nano Energy, 2018, 50, 794-806.	8.2	9
61	Synergetic effects in composite-based flexible hybrid mechanical energy harvesting generator. Journal of Materials Chemistry A, 2017, 5, 9113-9121.	5.2	49
62	Nanogenerators: Triboelectric and Piezoelectric Effects in a Combined Triboâ€Piezoelectric Nanogenerator Based on an Interfacial ZnO Nanostructure (Adv. Funct. Mater. 45/2016). Advanced Functional Materials, 2016, 26, 8355-8355.	7.8	1
63	Triboelectric and Piezoelectric Effects in a Combined Triboâ€Piezoelectric Nanogenerator Based on an Interfacial ZnO Nanostructure. Advanced Functional Materials, 2016, 26, 8194-8201.	7.8	87