Yanyan Duan

List of Publications by Year
in descending order

59 papers	2,535 citations	218592 26 h-index	197736 49 g-index
60 all docs	60 docs citations	60 times ranked	2426 citing authors

#	Article	IF	Citations
1	Efficient interface engineering of N, N'-Dicyclohexylcarbodiimide for stable HTMs-free CsPbBr3 perovskite solar cells with 10.16%-efficiency. Chemical Engineering Journal, 2022, 428, 131950.	6.6	32
2	Suppressing Interfacial Shunt Loss via Functional Polymer for Performance Improvement of Leadâ€Free Cs₂AgBiBr₆ Double Perovskite Solar Cells. Solar Rrl, 2022, 6, 2100791.	3.1	22
3	Thermalâ€Triggered Dynamic Disulfide Bond Selfâ€Heals Inorganic Perovskite Solar Cells. Angewandte Chemie, 2022, 134, .	1.6	2
4	A â€œdouble-sided tapeâ€•modifier bridging the TiO₂/perovskite buried interface for efficient and stable all-inorganic perovskite solar cells. Journal of Materials Chemistry A, 2022, 10, 6649-6661.	5.2	25
5	Pinning Bromide Ion with Ionic Liquid in Leadâ€Free Cs₂AgBiBr₆ Double Perovskite Solar Cells. Advanced Functional Materials, 2022, 32, .	7.8	37
6	Energy level matching between transparent conducting electrodes and the electronic transport layer to enhance performance of all-inorganic CsPbBr3 solar cells. Vacuum, 2022, 200, 111028.	1.6	4
7	Tailoring type-II all-in-one buried interface for 1.635V-voltage, all-inorganic CsPbBr3 perovskite solar cells. Nano Energy, 2022, 96, 107138.	8.2	30
8	Phase Control of Csâ€Pbâ€Br Derivatives to Suppress 0D Cs₄PbBr₆ for Highâ€Efficiency and Stable Allâ€Inorganic CsPbBr₃ Perovskite Solar Cells. Small, 2022, 18, e2106323.	5.2	27
9	Universal Dynamic Liquid Interface for Healing Perovskite Solar Cells. Advanced Materials, 2022, 34, e2202301.	11.1	57
10	Tailoring organic bulk-heterojunction for charge extraction and spectral absorption in CsPbBr3 perovskite solar cells. Science China Materials, 2021, 64, 798-807.	3.5	17
11	Review on recent progress of lead-free halide perovskites in optoelectronic applications. Nano Energy, 2021, 80, 105526.	8.2	130
12	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
13	Triâ€Brominated Perovskite Film Management and Multipleâ€Ionic Defect Passivation for Highly Efficient and Stable Solar Cells. Solar Rrl, 2021, 5, 2000819.	3.1	13
14	Flexible, Allâ€Inorganic CsPbBr₃ Perovskite Solar Cells Tailored by Heatâ€Resistant Muscovite Substrates. ChemSusChem, 2021, 14, 1512-1516.	3.6	10
15	<i>p</i>â€Type Charge Transfer Doping of Graphene Oxide with (NiCo)_{1âˆ’<i>y</i>}Fe_{<i>y</i>}O_{<i>x</i>} for Airâ€Stable, Allâ€Inorganic CsPbIBr₂ Perovskite Solar Cells. Angewandte Chemie - International Edition, 2021, 60, 10608-10613.	7.2	89
16	<i>p</i>â€Type Charge Transfer Doping of Graphene Oxide with (NiCo)_{1âˆ’<i>y</i>}Fe_{<i>y</i>}O_{<i>x</i>} for Airâ€Stable, Allâ€Inorganic CsPbIBr₂ Perovskite Solar Cells. Angewandte Chemie, 2021, 133, 10702-10707.	1.6	6
17	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
18	Low-temperature processed tantalum/niobium co-doped TiO₂ electron transport layer for high-performance planar perovskite solar cells. Nanotechnology, 2021, 32, 245201.	1.3	21

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19	Boosting power conversion efficiency by hybrid triboelectric nanogenerator/silicon tandem solar cell toward rain energy harvesting. Nano Energy, 2021, 82, 105773.	8.2	62
20	Effect of Side-Group-Regulated Dipolar Passivating Molecules on CsPbBr₃ Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 2336-2342.	8.8	91
21	Efficient Defect Passivation and Charge Extraction with Hexamethylenetetramine Interface Modification for Holeâ€Transporting Layersâ€Free CsPbBr₃ Perovskite Solar Cells. Solar Rrl, 2021, 5, 2100344.	3.1	8
22	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
23	Highly efficient and stable inorganic CsPbBr3 perovskite solar cells via vacuum co-evaporation. Applied Surface Science, 2021, 562, 150153.	3.1	26
24	Alkali chloride doped SnO₂ electron-transporting layers for boosting charge transfer and passivating defects in all-inorganic CsPbBr₃ perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 15003-15011.	5.2	30
25	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
26	Enhanced Efficiency of Air-Stable CsPbBr₃ Perovskite Solar Cells by Defect Dual Passivation and Grain Size Enlargement with a Multifunctional Additive. ACS Applied Materials & Interfaces, 2020, 12, 36092-36101.	4.0	62
27	Sputtered Ga-Doped SnO_{<i>x</i>} Electron Transport Layer for Large-Area All-Inorganic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 54904-54915.	4.0	18
28	Compositional Engineering of Chloride Ionâ€Doped CsPbBr 3 Halides for Highly Efficient and Stable Allâ€Inorganic Perovskite Solar Cells. Solar Rrl, 2020, 4, 2000362.	3.1	26
29	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
30	Improved charge extraction through interface engineering for 10.12% efficiency and stable CsPbBr₃ perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 20987-20997.	5.2	42
31	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
32	Triboelectric behaviors of inorganic Cs_{1âˆ’x}A_xPbBr₃ halide perovskites toward enriching the triboelectric series. Journal of Materials Chemistry A, 2020, 8, 25696-25705.	5.2	16
33	Bulk Pt/CsPbBr₃ Schottky junctions for charge boosting in robust triboelectric nanogenerators. Journal of Materials Chemistry A, 2020, 8, 11966-11975.	5.2	20
34	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
35	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
36	Dopamine-crosslinked TiO2/perovskite layer for efficient and photostable perovskite solar cells under full spectral continuous illumination. Nano Energy, 2019, 56, 733-740.	8.2	201

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37	High-efficiency perovskite solar cells based on self-assembly n-doped fullerene derivative with excellent thermal stability. Journal of Power Sources, 2019, 413, 459-466.	4.0	24
38	9.07%-Efficiency dye-sensitized solar cell from Pt-free RuCoSe ternary alloy counter electrode. Materials Letters, 2018, 218, 76-79.	1.3	15
39	Selfâ€Powered Lowâ€Platinum Nanorod Alloy Monoelectrodes for Rain Energy Harvest. Energy Technology, 2018, 6, 1606-1609.	1.8	1
40	Bifunctional polyaniline electrode tailored hybridized solar cells for energy harvesting from sun and rain. Journal of Energy Chemistry, 2018, 27, 742-747.	7.1	11
41	Self-powered monoelectrodes made from graphene composite films to harvest rain energy. Energy, 2018, 158, 555-563.	4.5	14
42	Efficiency enhancement of hybridized solar cells through co-sensitization and fast charge extraction by up-converted polyethylene glycol modified carbon quantum dots. Journal of Power Sources, 2017, 367, 158-166.	4.0	16
43	Self-powered PEDOT and derivate monoelectrodes to harvest rain energy. Nano Energy, 2017, 41, 293-300.	8.2	25
44	Hollow optical fiber induced solar cells with optical energy storage and conversion. Chemical Communications, 2017, 53, 12233-12235.	2.2	7
45	Carbon quantum dot tailored counter electrode for 7.01%-rear efficiency in a bifacial dye-sensitized solar cell. Chemical Communications, 2017, 53, 9894-9897.	2.2	36
46	Interfacial engineering of hybridized solar cells for simultaneously harvesting solar and rain energies. Journal of Materials Chemistry A, 2017, 5, 18551-18560.	5.2	9
47	Extra-high short-circuit current for bifacial solar cells in sunny and darkâ€"light conditions. Chemical Communications, 2017, 53, 10046-10049.	2.2	7
48	Platinum Alloy Tailored Allâ€Weather Solar Cells for Energy Harvesting from Sun and Rain. Angewandte Chemie - International Edition, 2016, 55, 14412-14416.	7.2	49
49	Platinum Alloy Tailored Allâ€Weather Solar Cells for Energy Harvesting from Sun and Rain. Angewandte Chemie, 2016, 128, 14624-14628.	1.6	10
50	Solid-state dye-sensitized solar cells from poly(ethylene oxide)/polyaniline electrolytes with catalytic and hole-transporting characteristics. Journal of Materials Chemistry A, 2015, 3, 5368-5374.	5.2	53
51	A dye-sensitized solar cell having polyaniline species in each component with 3.1%-efficiency. Journal of Power Sources, 2015, 284, 178-185.	4.0	23
52	Bifacial dye-sensitized solar cells with transparent cobalt selenide alloy counter electrodes. Journal of Power Sources, 2015, 284, 349-354.	4.0	44
53	Transparent counter electrode from palladium selenide for bifacial dye-sensitized solar cell. Materials Letters, 2015, 160, 511-514.	1.3	12
54	Recent advances in alloy counter electrodes for dye-sensitized solar cells. A critical review. Electrochimica Acta, 2015, 178, 886-899.	2.6	104

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55	An avenue of sealing liquid electrolyte in flexible dye-sensitized solar cells. Journal of Power Sources, 2015, 274, 304-309.	4.0	18
56	An avenue of expanding triiodide reduction and shortening charge diffusion length in solid-state dye-sensitized solar cells. Journal of Power Sources, 2015, 273, 180-184.	4.0	3
57	Transparent Metal Selenide Alloy Counter Electrodes for Highâ€Efficiency Bifacial Dyeâ€Sensitized Solar Cells. Angewandte Chemie - International Edition, 2014, 53, 14569-14574.	7.2	231
58	Enhanced dye illumination in dye-sensitized solar cells using TiO₂/GeO₂photo-anodes. Journal of Materials Chemistry A, 2014, 2, 12459.	5.2	48
59	Transparent nickel selenide alloy counter electrodes for bifacial dye-sensitized solar cells exceeding 10% efficiency. Nanoscale, 2014, 6, 12601-12608.	2.8	124