Yanyan Duan

List of Publications by Year in descending order

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Version: 2024-02-01

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	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
2	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
3	Tailored Lattice â€œTapeâ€•to Confine Tensile Interface for 11.08%â€Efficiency Allâ€Inorganic CsPbBr₃ Perovskite Solar Cell with an Ultrahigh Voltage of 1.702â€V. Advanced Science, 2021, 8, e2101418.	5.6	161
4	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
5	Review on recent progress of lead-free halide perovskites in optoelectronic applications. Nano Energy, 2021, 80, 105526.	8.2	130
6	Transparent nickel selenide alloy counter electrodes for bifacial dye-sensitized solar cells exceeding 10% efficiency. Nanoscale, 2014, 6, 12601-12608.	2.8	124
7	Recent advances in alloy counter electrodes for dye-sensitized solar cells. A critical review. Electrochimica Acta, 2015, 178, 886-899.	2.6	104
8	Effect of Side-Group-Regulated Dipolar Passivating Molecules on CsPbBr₃ Perovskite Solar Cells. ACS Energy Letters, 2021, 6, 2336-2342.	8.8	91
9	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
10	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
11	Boosting power conversion efficiency by hybrid triboelectric nanogenerator/silicon tandem solar cell toward rain energy harvesting. Nano Energy, 2021, 82, 105773.	8.2	62
12	Universal Dynamic Liquid Interface for Healing Perovskite Solar Cells. Advanced Materials, 2022, 34, e2202301.	11.1	57
13	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
14	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
15	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
16	Enhanced dye illumination in dye-sensitized solar cells using TiO₂/GeO₂photo-anodes. Journal of Materials Chemistry A, 2014, 2, 12459.	5.2	48
17	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
18	Bifacial dye-sensitized solar cells with transparent cobalt selenide alloy counter electrodes. Journal of Power Sources, 2015, 284, 349-354.	4.0	44

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19	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
20	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
21	Pinning Bromide Ion with Ionic Liquid in Leadâ€Free Cs₂AgBiBr₆ Double Perovskite Solar Cells. Advanced Functional Materials, 2022, 32, .	7.8	37
22	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
23	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
24	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
25	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
26	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
27	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
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	Highly efficient and stable inorganic CsPbBr3 perovskite solar cells via vacuum co-evaporation. Applied Surface Science, 2021, 562, 150153.	3.1	26
30	Self-powered PEDOT and derivate monoelectrodes to harvest rain energy. Nano Energy, 2017, 41, 293-300.	8.2	25
31	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
32	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
33	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
34	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
35	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
36	Bulk Pt/CsPbBr₃ Schottky junctions for charge boosting in robust triboelectric nanogenerators. Journal of Materials Chemistry A, 2020, 8, 11966-11975.	5.2	20

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37	An avenue of sealing liquid electrolyte in flexible dye-sensitized solar cells. Journal of Power Sources, 2015, 274, 304-309.	4.0	18
38	Sputtered Ga-Doped SnO_x Electron Transport Layer for Large-Area All-Inorganic Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 54904-54915.	4.0	18
39	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
40	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
41	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
42	9.07%-Efficiency dye-sensitized solar cell from Pt-free RuCoSe ternary alloy counter electrode. Materials Letters, 2018, 218, 76-79.	1.3	15
43	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
44	Self-powered monoelectrodes made from graphene composite films to harvest rain energy. Energy, 2018, 158, 555-563.	4.5	14
45	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
46	Transparent counter electrode from palladium selenide for bifacial dye-sensitized solar cell. Materials Letters, 2015, 160, 511-514.	1.3	12
47	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
48	Platinum Alloy Tailored Allâ€Weather Solar Cells for Energy Harvesting from Sun and Rain. Angewandte Chemie, 2016, 128, 14624-14628.	1.6	10
49	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
50	Flexible, Allâ€Inorganic CsPbBr₃ Perovskite Solar Cells Tailored by Heatâ€resistant Muscovite Substrates. ChemSusChem, 2021, 14, 1512-1516.	3.6	10
51	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
52	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
53	Hollow optical fiber induced solar cells with optical energy storage and conversion. Chemical Communications, 2017, 53, 12233-12235.	2.2	7
54	Extra-high short-circuit current for bifacial solar cells in sunny and darkâ€“light conditions. Chemical Communications, 2017, 53, 10046-10049.	2.2	7

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55	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
56	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
57	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
58	Thermalâ€Triggered Dynamic Disulfide Bond Selfâ€Heals Inorganic Perovskite Solar Cells. Angewandte Chemie, 2022, 134, .	1.6	2
59	Selfâ€Powered Lowâ€Platinum Nanorod Alloy Monoelectrodes for Rain Energy Harvest. Energy Technology, 2018, 6, 1606-1609.	1.8	1