List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Selfâ€Powered and Stable Allâ€Perovskite Photodetector–Solar Cell Nanosystem. Advanced Functional Materials, 2016, 26, 1296-1302.	7.8	203
2	Gradient Energy Band Driven Highâ€Performance Selfâ€Powered Perovskite/CdS Photodetector. Advanced Materials, 2019, 31, e1806725.	11.1	194
3	Ultrahighâ€Performance Selfâ€Powered Flexible Doubleâ€Twisted Fibrous Broadband Perovskite Photodetector. Advanced Materials, 2018, 30, e1706986.	11.1	177
4	Enhanced Photoelectrochemical Performance from Rationally Designed Anatase/Rutile TiO ₂ Heterostructures. ACS Applied Materials & Interfaces, 2016, 8, 12239-12245.	4.0	147
5	Three-Dimensional WO ₃ Nanoplate/Bi ₂ S ₃ Nanorod Heterojunction as a Highly Efficient Photoanode for Improved Photoelectrochemical Water Splitting. ACS Applied Materials & Interfaces, 2017, 9, 40235-40243.	4.0	139
6	Interfacial Chemical Bondâ€Modulated Zâ€Scheme Charge Transfer for Efficient Photoelectrochemical Water Splitting. Advanced Energy Materials, 2021, 11, 2003500.	10.2	127
7	Dopingâ€Induced Amorphization, Vacancy, and Gradient Energy Band in SnS ₂ Nanosheet Arrays for Improved Photoelectrochemical Water Splitting. Angewandte Chemie - International Edition, 2019, 58, 6761-6765.	7.2	125
8	Observing Defect Passivation of the Grain Boundary with 2â€Aminoterephthalic Acid for Efficient and Stable Perovskite Solar Cells. Angewandte Chemie - International Edition, 2020, 59, 4161-4167.	7.2	122
9	Self-Powered, Flexible, and Solution-Processable Perovskite Photodetector Based on Low-Cost Carbon Cloth. Small, 2017, 13, 1701042.	5.2	114
10	Simultaneous Manipulation of Oâ€Doping and Metal Vacancy in Atomically Thin Zn ₁₀ 1n ₁₆ S ₃₄ Nanosheet Arrays toward Improved Photoelectrochemical Performance. Angewandte Chemie - International Edition, 2018, 57, 16882-16887.	7.2	109
11	Phaseâ€Modulated Band Alignment in CdS Nanorod/SnS _x Nanosheet Hierarchical Heterojunctions toward Efficient Water Splitting. Advanced Functional Materials, 2018, 28, 1706785.	7.8	102
12	Ultrahighâ€Performance Flexible and Selfâ€Powered Photodetectors with Ferroelectric P(VDFâ€TrFE)/Perovskite Bulk Heterojunction. Advanced Functional Materials, 2019, 29, 1808415.	7.8	85
13	Non-noble bimetallic NiMoO 4 nanosheets integrated Si photoanodes for highly efficient and stable solar water splitting. Nano Energy, 2017, 34, 8-14.	8.2	78
14	Semitransparent, Flexible, and Selfâ€Powered Photodetectors Based on Ferroelectricityâ€Assisted Perovskite Nanowire Arrays. Advanced Functional Materials, 2019, 29, 1901280.	7.8	78
15	PVP Treatment Induced Gradient Oxygen Doping in In ₂ S ₃ Nanosheet to Boost Solar Water Oxidation of WO ₃ Nanoarray Photoanode. Advanced Energy Materials, 2020, 10, 1903951.	10.2	78
16	Electrospun YMn2O5 nanofibers: A highly catalytic activity for NO oxidation. Applied Catalysis B: Environmental, 2019, 247, 133-141.	10.8	75
17	Flexible and Selfâ€Powered Lateral Photodetector Based on Inorganic Perovskite CsPbl ₃ –CsPbBr ₃ Heterojunction Nanowire Array. Advanced Functional Materials, 2020, 30, 1909771.	7.8	73
18	High-performance UV–vis photodetectors based on electrospun ZnO nanofiber-solution processed perovskite hybrid structures. Nano Research, 2017, 10, 2244-2256.	5.8	72

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19	TiO ₂ /WO ₃ Bilayer as Electron Transport Layer for Efficient Planar Perovskite Solar Cell with Efficiency Exceeding 20%. Advanced Materials Interfaces, 2020, 7, 1901406.	1.9	69
20	TiO ₂ Phase Junction Electron Transport Layer Boosts Efficiency of Planar Perovskite Solar Cells. Advanced Science, 2018, 5, 1700614.	5.6	67
21	Designing a Transparent CdIn ₂ S ₄ /In ₂ S ₃ Bulkâ€Heterojunction Photoanode Integrated with a Perovskite Solar Cell for Unbiased Water Splitting. Advanced Materials, 2020, 32, e2002893.	11.1	67
22	Selfâ€Powered UV–Vis–NIR Photodetector Based on Conjugatedâ€Polymer/CsPbBr ₃ Nanowire Array. Advanced Functional Materials, 2019, 29, 1906756.	7.8	63
23	Moistureâ€Triggered Selfâ€Healing Flexible Perovskite Photodetectors with Excellent Mechanical Stability. Advanced Materials, 2021, 33, e2100625.	11.1	63
24	Double Barriers for Moisture Degradation: Assembly of Hydrolysable Hydrophobic Molecules for Stable Perovskite Solar Cells with High Open ircuit Voltage. Advanced Functional Materials, 2020, 30, 2002639.	7.8	61
25	PEG Modified CsPbIBr ₂ Perovskite Film for Efficient and Stable Solar Cells. Advanced Materials Interfaces, 2020, 7, 2000537.	1.9	60
26	Nested Inverse Opal Perovskite toward Superior Flexible and Selfâ€Powered Photodetection Performance. Advanced Materials, 2020, 32, e1906974.	11.1	56
27	Stability enhancement of leadâ€free CsSnI ₃ perovskite photodetector with reductive ascorbic acid additive. InformaÄnÃ-Materiály, 2020, 2, 577-584.	8.5	56
28	Ultrathin Amorphous Ni(OH) ₂ Nanosheets on Ultrathin <i>î±</i> â€Fe ₂ O ₃ Films for Improved Photoelectrochemical Water Oxidation. Advanced Materials Interfaces, 2016, 3, 1600256.	1.9	53
29	Progress of Leadâ€Free Halide Perovskites: From Material Synthesis to Photodetector Application. Advanced Functional Materials, 2021, 31, 2008275.	7.8	52
30	A multijunction of ZnIn2S4 nanosheet/TiO2 film/Si nanowire for significant performance enhancement of water splitting. Nano Research, 2015, 8, 3524-3534.	5.8	51
31	Adduct phases induced controlled crystallization for mixed-cation perovskite solar cells with efficiency over 21%. Nano Energy, 2019, 63, 103867.	8.2	48
32	2D Ruddlesden–Popper Perovskite with Ordered Phase Distribution for Highâ€Performance Selfâ€Powered Photodetectors. Advanced Materials, 2021, 33, e2101714.	11.1	48
33	Interface reacted ZnFe ₂ O ₄ on α-Fe ₂ O ₃ nanoarrays for largely improved photoelectrochemical activity. RSC Advances, 2015, 5, 79440-79446.	1.7	47
34	Novel perovskite/TiO2/Si trilayer heterojunctions for high-performance self-powered ultraviolet-visible-near infrared (UV-Vis-NIR) photodetectors. Nano Research, 2018, 11, 1722-1730.	5.8	47
35	Intermediateâ€Adductâ€Assisted Growth of Stable CsPbl ₂ Br Inorganic Perovskite Films for Highâ€Efficiency Semitransparent Solar Cells. Advanced Materials, 2021, 33, e2006745.	11.1	47
36	Hybrid Nanostructures for Photodetectors. Advanced Optical Materials, 2017, 5, 1600468.	3.6	43

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37	Atomic Sn–enabled high-utilization, large-capacity, and long-life Na anode. Science Advances, 2022, 8, eabm7489.	4.7	42
38	Partial Ion Exchange Derived 2D Cu–Zn–In–S Nanosheets as Sensitizers of 1D TiO ₂ Nanorods for Boosting Solar Water Splitting. ACS Applied Materials & Interfaces, 2016, 8, 26235-26243.	4.0	40
39	TiO2 ALD decorated CuO/BiVO4 p-n heterojunction for improved photoelectrochemical water splitting. Journal of Materials Science and Technology, 2019, 35, 1740-1746.	5.6	40
40	Enhancing photoelectrochemical activity with three-dimensional p-CuO/n-ZnO junction photocathodes. Science China Materials, 2016, 59, 825-832.	3.5	35
41	Boosting Efficiency and Stability of Perovskite Solar Cells with CdS Inserted at TiO ₂ /Perovskite Interface. Advanced Materials Interfaces, 2016, 3, 1600729.	1.9	35
42	New Insights into the Electron-Collection Efficiency Improvement of CdS-Sensitized TiO ₂ Nanorod Photoelectrodes by Interfacial Seed-Layer Mediation. ACS Applied Materials & Interfaces, 2019, 11, 8126-8137.	4.0	34
43	Highâ€Performance Flexible Selfâ€Powered Photodetector Based on Perovskite and Lowâ€Temperature Processed In ₂ S ₃ Nanoflake Film. Advanced Materials Interfaces, 2019, 6, 1801526.	1.9	33
44	Polarized Ferroelectric Field-Enhanced Self-Powered Perovskite Photodetector. ACS Photonics, 2018, 5, 3731-3738.	3.2	31
45	<scp>Selfâ€powered</scp> bifunctional perovskite photodetectors with both broadband and narrowband photoresponse. InformaÄnÃ-Materiály, 2022, 4, .	8.5	31
46	Structural Engineering of Si/TiO ₂ /P3HT Heterojunction Photodetectors for a Tunable Response Range. ACS Applied Materials & Interfaces, 2019, 11, 3241-3250.	4.0	30
47	Ternary non-noble metal zinc-nickel-cobalt carbonate hydroxide cocatalysts toward highly efficient photoelectrochemical water splitting. Journal of Materials Science and Technology, 2018, 34, 899-904.	5.6	28
48	Efficient p-type dye-sensitized solar cells with all-nano-electrodes: NiCo2S4 mesoporous nanosheet counter electrodes directly converted from NiCo2O4 photocathodes. Nanoscale Research Letters, 2014, 9, 608.	3.1	27
49	Si/CuIn _{0.7} Ga _{0.3} Se ₂ Core–Shell Heterojunction for Sensitive and Selfâ€Driven UV–vis–NIR Broadband Photodetector. Advanced Optical Materials, 2019, 7, 1900023.	3.6	25
50	Dopingâ€Induced Amorphization, Vacancy, and Gradient Energy Band in SnS ₂ Nanosheet Arrays for Improved Photoelectrochemical Water Splitting. Angewandte Chemie, 2019, 131, 6833-6837.	1.6	23
51	Ethylamine Iodide Additive Enables Solidâ€ŧoâ€5olid Transformed Highly Oriented Perovskite for Excellent Photodetectors. Advanced Materials, 2022, 34, e2108569.	11.1	23
52	Laserâ€Manufactured Metastable Supranano SnO <i>_x</i> for Efficient Electron/Ion Bridging in SnO ₂ â€Graphene Heterostructure Boosting Lithium Storage. Advanced Functional Materials, 2021, 31, 2101059.	7.8	22
53	Simultaneous Manipulation of Oâ€Doping and Metal Vacancy in Atomically Thin Zn ₁₀ In ₁₆ S ₃₄ Nanosheet Arrays toward Improved Photoelectrochemical Performance. Angewandte Chemie, 2018, 130, 17124-17129.	1.6	19
54	Graded energy band engineering for efficient perovskite solar cells. Nano Select, 2020, 1, 152-168.	1.9	19

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55	Polypyrrole Serving as Multifunctional Surface Modifier for Photoanode Enables Efficient Photoelectrochemical Water Oxidation. Small, 2022, 18, e2105240.	5.2	19
56	Structure and Band Alignment Engineering of CdS/TiO ₂ /Bi ₂ WO ₆ Trilayer Nanoflake Array for Efficient Photoelectrochemical Water Splitting. ChemElectroChem, 2019, 6, 5248-5254.	1.7	15
57	Ion Sputtering–Assisted Double‣ide Interfacial Engineering for CdIn ₂ S ₄ Photoanode toward Improved Photoelectrochemical Water Splitting. Advanced Materials Interfaces, 2020, 7, 1901947.	1.9	15
58	Thiamine additive engineering enables improved film formation towards high efficiency and moisture stability in perovskite solar cells. Science China Materials, 2022, 65, 321-327.	3.5	14
59	Metal Halide Perovskite Nano/Microwires. Small Structures, 2022, 3, 2100165.	6.9	14
60	Loading Amorphous NiMoO _{4–<i>x</i>} S _{<i>x</i>} Nanosheet Cocatalyst to Improve Performance of <i>p</i> -Silicon Wafer Photocathode. ACS Applied Energy Materials, 2018, 1, 1286-1293.	2.5	9
61	Degradation mechanism and stability improvement of formamidine-based perovskite solar cells under high humidity conditions. Nano Research, 2022, 15, 8955-8961.	5.8	8
62	Photoelectrochemical water splitting using TiO2 nanorod arrays coated with Zn-doped CdS. Journal of Materials Science, 2021, 56, 11059-11070.	1.7	7
63	Boosting PEC performance of Si photoelectrodes by coupling bifunctional CuCo hybrid oxide cocatalysts. Nanotechnology, 2018, 29, 425703.	1.3	6
64	Ordered array structures for efficient perovskite solar cells. Engineering Reports, 2020, 2, e12319.	0.9	6
65	Laserâ€Manufactured Metastable Supranano SnO <i>_x</i> for Efficient Electron/Ion Bridging in SnO ₂ â€Graphene Heterostructure Boosting Lithium Storage (Adv. Funct. Mater.) Tj ETQ	@գեւթ0.78	43114 rgBT /(
66	Wrapping BiVO4 with chlorophyll for greatly improved photoelectrochemical performance and stability. Science China Materials, 2022, 65, 1512-1521.	3.5	3
67	2D Ruddlesden–Popper Perovskite with Ordered Phase Distribution for Highâ€Performance Selfâ€Powered Photodetectors (Adv. Mater. 35/2021). Advanced Materials, 2021, 33, 2170274.	11.1	1
68	Metal Halide Perovskite Nano/Microwires. Small Structures, 2022, 3, .	6.9	0