

Peng You

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

3,709
citations

279487

23
h-index

454577

30
g-index

31
all docs

31
docs citations

31
times ranked

6092
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient and stable perovskite solar cells prepared in ambient air irrespective of the humidity. <i>Nature Communications</i> , 2016, 7, 11105.	5.8	488
2	Efficient Semitransparent Perovskite Solar Cells with Graphene Electrodes. <i>Advanced Materials</i> , 2015, 27, 3632-3638.	11.1	456
3	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 806-810.	7.2	369
4	Ultrasensitive broadband phototransistors based on perovskite/organic-semiconductor vertical heterojunctions. <i>Light: Science and Applications</i> , 2017, 6, e17023-e17023.	7.7	272
5	Enhanced efficiency of polymer solar cells by adding a high-mobility conjugated polymer. <i>Energy and Environmental Science</i> , 2015, 8, 1463-1470.	15.6	216
6	Ultrathin and flexible perovskite solar cells with graphene transparent electrodes. <i>Nano Energy</i> , 2016, 28, 151-157.	8.2	200
7	Solution-Phase Epitaxial Growth of Perovskite Films on 2D Material Flakes for High-Performance Solar Cells. <i>Advanced Materials</i> , 2019, 31, e1807689.	11.1	185
8	Highly sensitive glucose sensors based on enzyme-modified whole-graphene solution-gated transistors. <i>Scientific Reports</i> , 2015, 5, 8311.	1.6	167
9	Neutral-Color Semitransparent Organic Solar Cells with All-Graphene Electrodes. <i>ACS Nano</i> , 2015, 9, 12026-12034.	7.3	132
10	Ultrafast laser-annealing of perovskite films for efficient perovskite solar cells. <i>Energy and Environmental Science</i> , 2020, 13, 1187-1196.	15.6	129
11	Au/Ag core-shell nanocuboids for high-efficiency organic solar cells with broadband plasmonic enhancement. <i>Energy and Environmental Science</i> , 2016, 9, 898-905.	15.6	127
12	Black Phosphorus Quantum Dots Used for Boosting Light Harvesting in Organic Photovoltaics. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13717-13721.	7.2	113
13	Enhanced performance of tin-based perovskite solar cells induced by an ammonium hypophosphite additive. <i>Journal of Materials Chemistry A</i> , 2019, 7, 26580-26585.	5.2	98
14	Performance Enhancement of Perovskite Solar Cells Induced by Lead Acetate as an Additive. <i>Solar Rrl</i> , 2018, 2, 1800066.	3.1	94
15	Two-dimensional materials in perovskite solar cells. <i>Materials Today Energy</i> , 2019, 11, 128-158.	2.5	93
16	Plasmonic and Superhydrophobic Self-Decontaminating N95 Respirators. <i>ACS Nano</i> , 2020, 14, 8846-8854.	7.3	90
17	Highly Stable All-Inorganic Perovskite Solar Cells Processed at Low Temperature. <i>Solar Rrl</i> , 2018, 2, 1800075.	3.1	73
18	Enhanced Performance of Planar Perovskite Solar Cells Induced by Van Der Waals Epitaxial Growth of Mixed Perovskite Films on WS ₂ Flakes. <i>Advanced Functional Materials</i> , 2020, 30, 2002358.	7.8	73

#	ARTICLE	IF	CITATIONS
19	2D materials for conducting holes from grain boundaries in perovskite solar cells. <i>Light: Science and Applications</i> , 2021, 10, 68.	7.7	59
20	Amplified Spontaneous Emission from Organic-Inorganic Hybrid Lead Iodide Perovskite Single Crystals under Direct Multiphoton Excitation. <i>Advanced Optical Materials</i> , 2016, 4, 1053-1059.	3.6	47
21	Schottky Barrier-Controlled Black Phosphorus/Perovskite Phototransistors with Ultrahigh Sensitivity and Fast Response. <i>Small</i> , 2019, 15, 1901004.	5.2	46
22	Bias Stress Stability Improvement in Solution-Processed Low-Voltage Organic Field-Effect Transistors Using Relaxor Ferroelectric Polymer Gate Dielectric. <i>IEEE Electron Device Letters</i> , 2017, 38, 748-751.	2.2	42
23	2D WSe ₂ Flakes for Synergistic Modulation of Grain Growth and Charge Transfer in Tin-Based Perovskite Solar Cells. <i>Advanced Science</i> , 2021, 8, e2004315.	5.6	41
24	Lasing Characteristics of CH ₃ NH ₃ PbCl ₃ Single-Crystal Microcavities under Multiphoton Excitation. <i>Advanced Optical Materials</i> , 2018, 6, 1700992.	3.6	22
25	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. <i>Angewandte Chemie</i> , 2019, 131, 816-820.	1.6	22
26	Insulating Polymers for Enhancing the Efficiency of Nonfullerene Organic Solar Cells. <i>Solar Rrl</i> , 2020, 4, 2000013.	3.1	17
27	The influence of chloride on interdiffusion method for perovskite solar cells. <i>Materials Letters</i> , 2016, 169, 236-240.	1.3	13
28	Black Phosphorus Quantum Dots Used for Boosting Light Harvesting in Organic Photovoltaics. <i>Angewandte Chemie</i> , 2017, 129, 13905-13909.	1.6	12
29	Efficiency enhancement of organic photovoltaics by introducing high-mobility curved small-molecule semiconductors as additives. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12740-12750.	5.2	8
30	Synergistic effects of the zinc acetate additive on the performance enhancement of Sn-based perovskite solar cells. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1995-2000.	3.2	5