Peng You

List of Publications by Citations

31 papers	2,782 citations	22 h-index	31 g-index
31 ext. papers	3,227 ext. citations	14 avg, IF	5.56 L-index

#	Paper	IF	Citations
31	Efficient and stable perovskite solar cells prepared in ambient air irrespective of the humidity. *Nature Communications*, **2016**, 7, 11105	17.4	389
30	Efficient Semitransparent Perovskite Solar Cells with Graphene Electrodes. *Advanced Materials*, **2015**, 27, 3632-8	24	387
29	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. *Angewandte Chemie - International Edition*, **2019**, 58, 806-810	16.4	245
28	Enhanced efficiency of polymer solar cells by adding a high-mobility conjugated polymer. *Energy and Environmental Science*, **2015**, 8, 1463-1470	35.4	204
27	Ultrasensitive broadband phototransistors based on perovskite/organic-semiconductor vertical heterojunctions. *Light: Science and Applications*, **2017**, 6, e17023	16.7	203
26	Ultrathin and flexible perovskite solar cells with graphene transparent electrodes. *Nano Energy*, **2016**, 28, 151-157	17.1	158
25	Highly sensitive glucose sensors based on enzyme-modified whole-graphene solution-gated transistors. *Scientific Reports*, **2015**, 5, 8311	4.9	131
24	Solution-Phase Epitaxial Growth of Perovskite Films on 2D Material Flakes for High-Performance Solar Cells. *Advanced Materials*, **2019**, 31, e1807689	24	115
23	Neutral-Color Semitransparent Organic Solar Cells with All-Graphene Electrodes. *ACS Nano*, **2015**, 9, 12026-34	16.7	114
22	Au/Ag core–shell nanocuboids for high-efficiency organic solar cells with broadband plasmonic enhancement. *Energy and Environmental Science*, **2016**, 9, 898-905	35.4	107
21	Black Phosphorus Quantum Dots Used for Boosting Light Harvesting in Organic Photovoltaics. *Angewandte Chemie - International Edition*, **2017**, 56, 13717-13721	16.4	95
20	Ultrafast laser-annealing of perovskite films for efficient perovskite solar cells. *Energy and Environmental Science*, **2020**, 13, 1187-1196	35.4	75
19	Performance Enhancement of Perovskite Solar Cells Induced by Lead Acetate as an Additive. *Solar Rrl*, **2018**, 2, 1800066	7.1	74
18	Enhanced performance of tin-based perovskite solar cells induced by an ammonium hypophosphite additive. *Journal of Materials Chemistry A*, **2019**, 7, 26580-26585	13	65
17	Two-dimensional materials in perovskite solar cells. *Materials Today Energy*, **2019**, 11, 128-158	7	60
16	Highly Stable All-Inorganic Perovskite Solar Cells Processed at Low Temperature. *Solar Rrl*, **2018**, 2, 1800075	7.1	58
15	Plasmonic and Superhydrophobic Self-Decontaminating N95 Respirators. *ACS Nano*, **2020**, 14, 8846-8854	16.7	46

List of Publications

14	Enhanced Performance of Planar Perovskite Solar Cells Induced by Van Der Waals Epitaxial Growth of Mixed Perovskite Films on WS2 Flakes. *Advanced Functional Materials*, **2020**, 30, 2002358	15.6	41
13	Amplified Spontaneous Emission from Organic–Inorganic Hybrid Lead Iodide Perovskite Single Crystals under Direct Multiphoton Excitation. *Advanced Optical Materials*, **2016**, 4, 1053-1059	8.1	39
12	Schottky Barrier-Controlled Black Phosphorus/Perovskite Phototransistors with Ultrahigh Sensitivity and Fast Response. *Small*, **2019**, 15, e1901004	11	32
11	Bias Stress Stability Improvement in Solution-Processed Low-Voltage Organic Field-Effect Transistors Using Relaxor Ferroelectric Polymer Gate Dielectric. *IEEE Electron Device Letters*, **2017**, 38, 748-751	4.4	30
10	2D materials for conducting holes from grain boundaries in perovskite solar cells. *Light: Science and Applications*, **2021**, 10, 68	16.7	26
9	Lasing Characteristics of CH3NH3PbCl3 Single-Crystal Microcavities under Multiphoton Excitation. *Advanced Optical Materials*, **2018**, 6, 1700992	8.1	18
8	2D WSe Flakes for Synergistic Modulation of Grain Growth and Charge Transfer in Tin-Based Perovskite Solar Cells. *Advanced Science*, **2021**, 8, e2004315	13.6	15
7	Antioxidant Grain Passivation for Air-Stable Tin-Based Perovskite Solar Cells. *Angewandte Chemie*, **2019**, 131, 816-820	3.6	15
6	The influence of chloride on interdiffusion method for perovskite solar cells. *Materials Letters*, **2016** , 169, 236-240	3.3	13
5	Insulating Polymers for Enhancing the Efficiency of Nonfullerene Organic Solar Cells. *Solar Rrl*, **2020** , 4, 2000013	7.1	10
4	Black Phosphorus Quantum Dots Used for Boosting Light Harvesting in Organic Photovoltaics. *Angewandte Chemie*, **2017**, 129, 13905-13909	3.6	10
3	Efficiency enhancement of organic photovoltaics by introducing high-mobility curved small-molecule semiconductors as additives. *Journal of Materials Chemistry A*, **2019**, 7, 12740-12750	13	5
2	Synergistic effects of the zinc acetate additive on the performance enhancement of Sn-based perovskite solar cells. *Materials Chemistry Frontiers*, **2021**, 5, 1995-2000	7.8	2
1	Organic–Inorganic Hybrid Perovskites for Solar Energy Conversion **2018**, 95-117		