Yong Peng

List of Publications by Year
in descending order

43 papers	2,182 citations	489802 18 h-index	286692 43 g-index
44 all docs	44 docs citations	44 times ranked	3661 citing authors

#	Article	IF	Citations
1	â€œCoffee ringâ€•controlment in spray prepared >19% efficiency Cs0.19FA0.81PbI2.5Br0.5 perovskite solar cells. Journal of Energy Chemistry, 2022, 67, 201-208.	7.1	14
2	A counter electrode modified with renewable carbonized biomass for an all-inorganic CsPbBr3 perovskite solar cell. Journal of Alloys and Compounds, 2022, 902, 163725.	2.8	11
3	All-vacuum deposited perovskite solar cells with glycine modified NiO_{<i>x</i>}hole-transport layers. RSC Advances, 2022, 12, 10863-10869.	1.7	7
4	Study of a Novel Electrochromic Device with Crystalline WO3 and Gel Electrolyte. Polymers, 2022, 14, 1430.	2.0	4
5	Accelerated Crystal Growth in >16% Printed MA_{<i>x</i>}FA_{<i>y</i>}Cs_{<i>z</i>}PbI₃ Perovskite Solar Cells from Aqueous Inks. ACS Sustainable Chemistry and Engineering, 2022, 10, 5225-5232.	3.2	1
6	Ultrafast Growth of High-Quality Cs_{0.14}FA_{0.86}Pb(Br_{<i>x</i>}I_{1â€“<i>x</i>})₃ Thin Films Achieved Using Super-Close-Space Sublimation. ACS Applied Energy Materials, 2022, 5, 5797-5803.	2.5	9
7	Defect Passivation and Fermi Level Modification for >10% Evaporated All-Inorganic CsPbBr₃ Perovskite Solar Cells. ACS Applied Energy Materials, 2022, 5, 8049-8056.	2.5	10
8	Improved efficiency and carrier dynamic transportation behavior in perovskite solar cells with CuInS₂ quantum dots as hole-transport materials. Dalton Transactions, 2021, 50, 8837-8844.	1.6	6
9	Bandgap adjustment assisted preparation of >18% Cs_yFA_{1âˆ’y}PbI_xBr_{3âˆ’x}-based perovskite solar cells using a hybrid spraying process. RSC Advances, 2021, 11, 17595-17602.	1.7	4
10	A Self-Healing Ionic Liquid-Based Ionically Cross-Linked Gel Polymer Electrolyte for Electrochromic Devices. Polymers, 2021, 13, 742.	2.0	8
11	19.59% Efficiency from Rb0.04-Cs0.14FA0.86Pb(Br I1âˆ’)3 perovskite solar cells made by vaporâ€“solid reaction technique. Science Bulletin, 2021, 66, 962-964.	4.3	19
12	Lead contamination analysis of perovskite modules under simulated working conditions. Solar Energy, 2021, 226, 85-91.	2.9	16
13	Printable materials for printed perovskite solar cells. Flexible and Printed Electronics, 2020, 5, 014002.	1.5	2
14	Universal defects elimination for high performance thermally evaporated CsPbBr3 perovskite solar cells. Solar Energy Materials and Solar Cells, 2020, 206, 110317.	3.0	41
15	Aqueous Sn-S Complex Derived Electron Selective Layer for Perovskite Solar Cells. Journal Wuhan University of Technology, Materials Science Edition, 2020, 35, 272-279.	0.4	1
16	Improving the crystal growth of a Cs0.24FA0.76PbI3âˆ’xBrx perovskite in a vaporâ€“solid reaction process using strontium iodide. Sustainable Energy and Fuels, 2020, 4, 2491-2496.	2.5	12
17	Interface modification effect on the performance of CsxFA1âˆ’xPbIyBr3âˆ’y perovskite solar cells fabricated by evaporation/spray-coating method. Journal of Chemical Physics, 2020, 153, 014706.	1.2	13
18	A pressure-assisted annealing method for high quality CsPbBr₃ film deposited by sequential thermal evaporation. RSC Advances, 2020, 10, 8905-8909.	1.7	20

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19	Room-temperature Sputtered NiOx for hysteresis-free and stable inverted Cs-FA mixed-cation perovskite solar cells. Materials Science in Semiconductor Processing, 2020, 115, 105129.	1.9	9
20	Influence of phase transition on stability of perovskite solar cells under thermal cycling conditions. Solar Energy, 2019, 188, 312-317.	2.9	23
21	Enhancing the thermal stability of the carbon-based perovskite solar cells by using a CsxFA1â^’xPbBrxI3â^’x light absorber. RSC Advances, 2019, 9, 11877-11881.	1.7	13
22	A novel ionically crosslinked gel polymer electrolyte as an ion transport layer for high-performance electrochromic devices. Journal of Materials Chemistry C, 2019, 7, 3744-3750.	2.7	24
23	Room-temperature synthesized SnO₂ electron transport layers for efficient perovskite solar cells. RSC Advances, 2019, 9, 9946-9950.	1.7	21
24	Moisture assisted CsPbBr3 film growth for high-efficiency, all-inorganic solar cells prepared by a multiple sequential vacuum deposition method. Materials Science in Semiconductor Processing, 2019, 98, 39-43.	1.9	42
25	A perovskite/silicon hybrid system with a solar-to-electric power conversion efficiency of 25.5%. Journal of Materials Chemistry A, 2019, 7, 26479-26489.	5.2	23
26	Organic/inorganic self-doping controlled crystallization and electronic properties of mixed perovskite solar cells. Journal of Materials Chemistry A, 2018, 6, 6319-6326.	5.2	28
27	Efficient and Stable Inverted Planar Perovskite Solar Cells Using a Triphenylamine Holeâ€Transporting Material. ChemSusChem, 2018, 11, 1467-1473.	3.6	45
28	Low-Temperature Presynthesized Crystalline Tin Oxide for Efficient Flexible Perovskite Solar Cells and Modules. ACS Applied Materials & Interfaces, 2018, 10, 14922-14929.	4.0	81
29	An efficient, flexible perovskite solar module exceeding 8% prepared with an ultrafast PbI2 deposition rate. Scientific Reports, 2018, 8, 442.	1.6	35
30	Alleviate the Jâ€“V hysteresis of carbon-based perovskite solar cells via introducing additional methylammonium chloride into MAPbI3 precursor. RSC Advances, 2018, 8, 35157-35161.	1.7	19
31	Large-area perovskite solar cells with Cs_xFA_{1â^’x}PbI_{3â^’y}Br_y thin films deposited by a vaporâ€“solid reaction method. Journal of Materials Chemistry A, 2018, 6, 21143-21148.	5.2	73
32	Recovering MAPbI₃-Based Perovskite Films From Water-Caused Permanent Degradations by Dipping in MAI Solution. IEEE Journal of Photovoltaics, 2018, 8, 1692-1700.	1.5	2
33	Universal passivation strategy to slot-die printed SnO2 for hysteresis-free efficient flexible perovskite solar module. Nature Communications, 2018, 9, 4609.	5.8	596
34	Influence of Hot Spot Heating on Stability of Large Size Perovskite Solar Module with a Power Conversion Efficiency of â^¼14%. ACS Applied Energy Materials, 2018, 1, 3565-3570.	2.5	13
35	Enhanced Crystallinity of Lowâ€Temperature Solutionâ€Processed SnO₂ for Highly Reproducible Planar Perovskite Solar Cells. ChemSusChem, 2018, 11, 2898-2903.	3.6	31
36	Effect of the Microstructure of the Functional Layers on the Efficiency of Perovskite Solar Cells. Advanced Materials, 2017, 29, 1601715.	11.1	104

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37	Nonâ€Conjugated Polymer as an Efficient Dopantâ€Free Holeâ€Transporting Material for Perovskite Solar Cells. ChemSusChem, 2017, 10, 2578-2584.	3.6	64
38	Perovskite Solar Cells: Effect of the Microstructure of the Functional Layers on the Efficiency of Perovskite Solar Cells (Adv. Mater. 20/2017). Advanced Materials, 2017, 29, .	11.1	3
39	Robust transparent superamphiphobic coatings on non-fabric flat substrates with inorganic adhesive titania bonded silica. Journal of Materials Chemistry A, 2017, 5, 8352-8359.	5.2	35
40	A novel quadruple-cation absorber for universal hysteresis elimination for high efficiency and stable perovskite solar cells. Energy and Environmental Science, 2017, 10, 2509-2515.	15.6	437
41	Enhancing the performance and stability of carbon-based perovskite solar cells by the cold isostatic pressing method. RSC Advances, 2017, 7, 48958-48961.	1.7	12
42	Synergic Interface Optimization with Green Solvent Engineering in Mixed Perovskite Solar Cells. Advanced Energy Materials, 2017, 7, 1700576.	10.2	240
43	Fabrication of Flexible Dyeâ€Sensitized Solar Cell Modules using Commercially Available Materials. Energy Technology, 2016, 4, 536-542.	1.8	11