

# Fang Yao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5313495/publications.pdf>

Version: 2024-02-01

25  
papers

1,345  
citations

516710

16  
h-index

580821

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

2426  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective Carrier Concentration Tuning of SnO <sub>2</sub> Quantum Dot Electron-Selective Layers for High-Performance Planar Perovskite Solar Cells. <i>Advanced Materials</i> , 2018, 30, e1706023.	21.0	333
2	Achieving a high open-circuit voltage in inverted wide-bandgap perovskite solar cells with a graded perovskite homojunction. <i>Nano Energy</i> , 2019, 61, 141-147.	16.0	152
3	Room-temperature liquid diffused separation induced crystallization for high-quality perovskite single crystals. <i>Nature Communications</i> , 2020, 11, 1194.	12.8	133
4	Enhanced performance of perovskite solar cells via anti-solvent nonfullerene Lewis base IT-4F induced trap-passivation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 5919-5925.	10.3	127
5	Space-Constrained Growth of Individual Wide Bandgap Single Crystal CsPbCl <sub>3</sub> Microplatelet for Near-Ultraviolet Photodetection. <i>Small</i> , 2019, 15, e1902618.	10.0	77
6	Enhancing efficiency and stability of perovskite solar cells via a high mobility p-type PbS buffer layer. <i>Nano Energy</i> , 2017, 38, 1-11.	16.0	65
7	High-Performance Photodetectors Based on Single All-Inorganic CsPbBr <sub>3</sub> Perovskite Microwire. <i>ACS Photonics</i> , 2018, 5, 2113-2119.	6.6	61
8	Self-powered narrowband p-NiO/n-ZnO nanowire ultraviolet photodetector with interface modification of Al <sub>2</sub> O <sub>3</sub> . <i>Applied Physics Letters</i> , 2017, 110, .	3.3	49
9	Dopant-Free Hole-Transport Materials Based on Methoxytriphenylamine-Substituted Indacenodithienothiophene for Solution-Processed Perovskite Solar Cells. <i>ChemSusChem</i> , 2017, 10, 2833-2838.	6.8	43
10	Ion-exchange-induced slow crystallization of 2D-3D perovskite thick junctions for X-ray detection and imaging. <i>Matter</i> , 2022, 5, 2251-2264.	10.0	40
11	Methylammonium, formamidinium and ethylenediamine mixed triple-cation perovskite solar cells with high efficiency and remarkable stability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17625-17632.	10.3	37
12	Molecular engineering of perovskite photodetectors: recent advances in materials and devices. <i>Molecular Systems Design and Engineering</i> , 2018, 3, 702-716.	3.4	33
13	Self-driven all-inorganic perovskite microplatelet vertical Schottky junction photodetectors with a tunable spectral response. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6804-6812.	5.5	29
14	Directly hydrothermal growth of antimony sulfide on conductive substrate as efficient counter electrode for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2015, 174, 127-132.	5.2	26
15	One-step hydrothermal synthesis of ZnS-CoS microcomposite as low cost counter electrode for dye-sensitized solar cells. <i>Applied Surface Science</i> , 2016, 363, 459-465.	6.1	26
16	High-Rubidium-Formamidinium-Ratio Perovskites for High-Performance Photodetection with Enhanced Stability. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 39875-39881.	8.0	21
17	Room Temperature Formation of Semiconductor Grade $\hat{\pm}$ -FAPbI <sub>3</sub> Films for Efficient Perovskite Solar Cells. <i>Cell Reports Physical Science</i> , 2020, 1, 100205.	5.6	18
18	Highly Efficient Quasi-2D Green Perovskite Light-Emitting Diodes with Bifunctional Amino Acid. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	14

#	ARTICLE	IF	CITATIONS
19	Chemical bath deposition of AgBiS <sub>2</sub> films for visible and X-ray detection. <i>Applied Materials Today</i> , 2022, 26, 101262.	4.3	12
20	Semi-transparent, high-performance lead-free Cs <sub>3</sub> Bi <sub>2</sub> I <sub>9</sub> single crystal self-driven photodetector. <i>Applied Physics Letters</i> , 2022, 120, .	3.3	12
21	Thick-junction perovskite X-ray detectors: processing and optoelectronic considerations. <i>Nanoscale</i> , 2022, 14, 9636-9647.	5.6	12
22	Revealing the Mechanism of I <sup>-</sup> Aromatic Molecule as an Effective Passivator and Stabilizer in Highly Efficient Wide-Bandgap Perovskite Solar Cells. <i>Solar Rrl</i> , 2021, 5, 2100249.	5.8	11
23	Quasi-Single Crystalline Cuprous Oxide Wafers via Stress-Assisted Thermal Oxidation for Optoelectronic Devices. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	8
24	Temperature-dependent performance metrics of tin-doped perovskite photodetectors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1625-1631.	5.5	4
25	Room-Temperature Diffusion-Induced Extraction for Perovskite Nanocrystals with High Luminescence and Stability. <i>Small Methods</i> , 2021, 5, 2001292.	8.6	2