

# Tiankai Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1516576/publications.pdf>

Version: 2024-02-01

19  
papers

1,479  
citations

567144

15  
h-index

794469

19  
g-index

19  
all docs

19  
docs citations

19  
times ranked

2916  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hybrid Halide Perovskite Solar Cell Precursors: Colloidal Chemistry and Coordination Engineering behind Device Processing for High Efficiency. <i>Journal of the American Chemical Society</i> , 2015, 137, 4460-4468.	6.6	586
2	Stable and Efficient 3D-2D Perovskite-Perovskite Planar Heterojunction Solar Cell without Organic Hole Transport Layer. <i>Joule</i> , 2018, 2, 2706-2721.	11.7	124
3	Fused Ring Electron Acceptor ITIC: A Novel Stabilizer for Halide Perovskite Precursor Solution. <i>Advanced Energy Materials</i> , 2018, 8, 1703399.	10.2	112
4	Nonstoichiometric acid-base reaction as reliable synthetic route to highly stable CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> perovskite film. <i>Nature Communications</i> , 2016, 7, 13503.	5.8	94
5	Stable and scalable 3D-2D planar heterojunction perovskite solar cells via vapor deposition. <i>Nano Energy</i> , 2019, 59, 619-625.	8.2	88
6	Crystallinity Preservation and Ion Migration Suppression through Dual Ion Exchange Strategy for Stable Mixed Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2017, 7, 1700118.	10.2	74
7	Ultrathin efficient perovskite solar cells employing a periodic structure of a composite hole conductor for elevated plasmonic light harvesting and hole collection. <i>Nanoscale</i> , 2016, 8, 6290-6299.	2.8	69
8	Interlayer Interaction Enhancement in Ruddlesden-Popper Perovskite Solar Cells toward High Efficiency and Phase Stability. <i>ACS Energy Letters</i> , 2019, 4, 1025-1033.	8.8	64
9	Guanidinium doping enabled low-temperature fabrication of high-efficiency all-inorganic CsPb <sub>2</sub> Br perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27640-27647.	5.2	56
10	Abnormal Synergetic Effect of Organic and Halide Ions on the Stability and Optoelectronic Properties of a Mixed Perovskite via In Situ Characterizations. <i>Advanced Materials</i> , 2018, 30, e1801562.	11.1	55
11	van der Waals Transition-Metal Oxide for Visible-MIR Broadband Photodetection via Intercalation Strategy. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 15741-15747.	4.0	36
12	Broadside Nanoantennas Made of Single Silver Nanorods. <i>ACS Nano</i> , 2018, 12, 1720-1731.	7.3	24
13	Near-Infrared Photoresponse of One-Sided Abrupt MAPb <sub>3</sub> /TiO <sub>2</sub> Heterojunction through a Tunneling Process. <i>Advanced Functional Materials</i> , 2016, 26, 8545-8554.	7.8	23
14	Facet-Dependent Property of Sequentially Deposited Perovskite Thin Films: Chemical Origin and Self-Annihilation. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 32366-32375.	4.0	19
15	A centrifugal microfluidic pressure regulator scheme for continuous concentration control in droplet-based microreactors. <i>Lab on A Chip</i> , 2019, 19, 3870-3879.	3.1	19
16	Tertiary Amines Differentiated from Primary and Secondary Amines by Active Ester-Functionalized Hexabenzoperylene in Field Effect Transistors. <i>Chemistry - an Asian Journal</i> , 2019, 14, 1676-1680.	1.7	15
17	Construction of an Iodine Diffusion Barrier Using Network Structure Silicone Resin for Stable Perovskite Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 8138-8146.	4.0	11
18	Rapid growth of high quality perovskite crystal by solvent mixing. <i>CrystEngComm</i> , 2016, 18, 1184-1189.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Thermal and illumination effects on a $\text{PbI}_2$ nanoplate and its transformation to $\text{CH}_3\text{NH}_3\text{PbI}_3$ perovskite. <i>CrystEngComm</i> , 2019, 21, 736-740.	1.3	4