

# Tong Zhu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/11381477/publications.pdf>

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16  
papers

1,420  
citations

567281

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940533

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17  
docs citations

17  
times ranked

1638  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bifunctional Surface Engineering on SnO <sub>2</sub> Reduces Energy Loss in Perovskite Solar Cells. ACS Energy Letters, 2020, 5, 2796-2801.	17.4	239
2	Quantum-size-tuned heterostructures enable efficient and stable inverted perovskite solar cells. Nature Photonics, 2022, 16, 352-358.	31.4	233
3	The Stability, Electronic Structure, and Optical Property of TiO <sub>2</sub> Polymorphs. Journal of Physical Chemistry C, 2014, 118, 11385-11396.	3.1	223
4	BaCu <sub>2</sub> Sn(S,Se) <sub>4</sub> : Earth-Abundant Chalcogenides for Thin-Film Photovoltaics. Chemistry of Materials, 2016, 28, 4771-4780.	6.7	131
5	Earth-Abundant Chalcogenide Photovoltaic Devices with over 5% Efficiency Based on a Cu <sub>2</sub> BaSn(S,Se) <sub>4</sub> Absorber. Advanced Materials, 2017, 29, 1606945.	21.0	112
6	Passivation of the Buried Interface via Preferential Crystallization of 2D Perovskite on Metal Oxide Transport Layers. Advanced Materials, 2021, 33, e2103394.	21.0	99
7	Bright and Stable Light-Emitting Diodes Based on Perovskite Quantum Dots in Perovskite Matrix. Journal of the American Chemical Society, 2021, 143, 15606-15615.	13.7	94
8	I <sub>2</sub> II <sub>2</sub> IV <sub>2</sub> VI <sub>4</sub> (I = Cu, Ag; II = Sr, Ba; IV = Ge, Sn; VI = S, Se): Chalcogenides for Thin-Film Photovoltaics. Chemistry of Materials, 2017, 29, 7868-7879.	6.7	87
9	Rigid Conjugated Diamine Templates for Stable Dion-Jacobson-Type Two-Dimensional Perovskites. Journal of the American Chemical Society, 2021, 143, 19901-19908.	13.7	39
10	Candidate photoferroic absorber materials for thin-film solar cells from naturally occurring minerals: enargite, stephanite, and bournonite. Sustainable Energy and Fuels, 2017, 1, 1339-1350.	4.9	32
11	Defect Tolerance of Mixed B-Site Organic-Inorganic Halide Perovskites. ACS Energy Letters, 2021, 6, 4220-4227.	17.4	30
12	Quantum Dot Self-Assembly Enables Low-Threshold Lasing. Advanced Science, 2021, 8, e2101125.	11.2	28
13	Band Gap Tailoring and Structure-Composition Relationship within the Alloyed Semiconductor Cu <sub>2</sub> BaGe <sub>1-x</sub> Sn <sub>x</sub> Se <sub>4</sub> . Chemistry of Materials, 2018, 30, 6566-6574.	6.7	25
14	Structural Tolerance Factor Approach to Defect-Resistant I <sub>2</sub> -II-IV-X <sub>4</sub> Semiconductor Design. Chemistry of Materials, 2020, 32, 1636-1649.	6.7	25
15	Controlled Crystal Plane Orientations in the ZnO Transport Layer Enable High-Responsivity, Low-Dark-Current Infrared Photodetectors. Advanced Materials, 2022, 34, e2200321.	21.0	21
16	Thiophene- and selenophene-based conjugated polymeric mixed ionic/electronic conductors. Journal of Chemical Physics, 2021, 155, 134704.	3.0	2