

# Junmin Xia

## List of Publications by Year in descending order

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14  
papers

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933447

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1125743

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docs citations

14  
times ranked

948  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional Ruddlesdenâ€“Popper layered perovskite solar cells based on phase-pure thin films. Nature Energy, 2021, 6, 38-45.	39.5	342
2	Deep surface passivation for efficient and hydrophobic perovskite solar cells. Journal of Materials Chemistry A, 2021, 9, 2919-2927.	10.3	74
3	Towards Simplifying the Device Structure of Highâ€“Performance Perovskite Solar Cells. Advanced Functional Materials, 2020, 30, 2000863.	14.9	67
4	Surface Passivation Toward Efficient and Stable Perovskite Solar Cells. Energy and Environmental Materials, 2023, 6, .	12.8	46
5	Effective Surface Ligand-Concentration Tuning of Deep-Blue Luminescent FAPbBr <sub>3</sub> Nanoplatelets with Enhanced Stability and Charge Transport. ACS Applied Materials & Interfaces, 2020, 12, 31863-31874.	8.0	37
6	Pure Bromideâ€“Based Perovskite Nanoplatelets for Blue Lightâ€“Emitting Diodes. Small Methods, 2019, 3, 1900196.	8.6	34
7	Controlling the film structure by regulating 2D Ruddlesdenâ€“Popper perovskite formation enthalpy for efficient and stable tri-cation perovskite solar cells. Journal of Materials Chemistry A, 2020, 8, 5874-5881.	10.3	23
8	Highâ€“performance flexible perovskite photodetectors based on singleâ€“crystalâ€“like twoâ€“dimensional Ruddlesdenâ€“Popper thin films. , 2023, 5, .		23
9	Ultrasensitive Organicâ€“Modulated CsPbBr <sub>3</sub> Quantum Dot Photodetectors via Fast Interfacial Charge Transfer. Advanced Materials Interfaces, 2020, 7, 1901741.	3.7	20
10	Recent Progress in Perovskiteâ€“Based Reversible Photonâ€“Electricity Conversion Devices. Advanced Functional Materials, 2022, 32, 2108926.	14.9	18
11	Two-Dimensional Heterostructure of MoS <sub>2</sub> /BA <sub>2</sub> PbI <sub>4</sub> 2D Ruddlesdenâ€“Popper Perovskite with an S Scheme Alignment for Solar Cells: A First-Principles Study. ACS Applied Electronic Materials, 2022, 4, 1939-1948.	4.3	11
12	Phase Tailoring of Ruddlesdenâ€“Popper Perovskite at Fixed Large Spacer Cation Ratio. Small, 2021, 17, e2100560.	10.0	10
13	Manipulation of Band Alignment in Two-Dimensional Vertical WSe <sub>2</sub> /BA <sub>2</sub> PbI <sub>4</sub> Ruddlesdenâ€“Popper Perovskite Heterojunctions via Defect Engineering. Journal of Physical Chemistry Letters, 2022, 13, 4579-4588.	4.6	10
14	Anion induced bottom surface passivation for high performance perovskite solar cell. Chemical Engineering Journal, 2022, 442, 135895.	12.7	5