

Chengyan Liu

List of Publications by Year in descending order

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Version: 2024-02-01

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#	ARTICLE	IF	CITATIONS
1	Two-Dimensional Type-II BP/MoSi ₂ P ₄ vdW Heterostructures for High-Performance Solar Cells. Journal of Physical Chemistry C, 2022, 126, 4677-4683.	3.1	22
2	Band Edge Engineering for the Improvement of Open-Circuit Voltage: Ag-Based Selenized Cu ₂ ZnSn(SSe) ₄ Surface Regulated by Lithium. Solar Rrl, 2021, 5, 2000631.	5.8	13
3	Surface Van Hove Singularity Enabled Efficient Catalysis in Low-Dimensional Systems: CO Oxidation and Hydrogen Evolution Reactions. Journal of Physical Chemistry Letters, 2022, 13, 740-746.	4.6	10
4	Passivation principle of deep-level defects: a study of Sn _{Zn} defects in kesterites for high-efficient solar cells. Journal of Materials Chemistry A, 2022, 10, 2849-2855.	10.3	7
5	The structural stability and defect-tolerance of ionic spinel semiconductors for high-efficiency solar cells. Journal of Materials Chemistry A, 2021, 9, 14566-14575.	10.3	6
6	Li-based selenized Cu ₂ ZnSnS ₄ surface: Possible route to overcoming <i>v</i> -deficit of kesterite solar cells. Applied Physics Letters, 2021, 118, .	3.3	5
7	Structural, Topological, and Superconducting Properties of Two-Dimensional Tellurium Allotropes from Ab Initio Predictions. Advanced Theory and Simulations, 2021, 4, 2000265.	2.8	4
8	Optimizing the Back Contact of Kesterites and Perovskites: Band Edge Design and Defect Engineering in Molybdenum Chalcogenides. Advanced Sustainable Systems, 0, , 2100457.	5.3	4
9	Size and crystal symmetry breaking effects on negative thermal expansion in ScF ₃ nanostructures. Physical Chemistry Chemical Physics, 2021, 23, 24814-24822.	2.8	1
10	Formation of stable polonium monolayers with tunable semiconducting properties driven by strong quantum size effects. Physical Chemistry Chemical Physics, 2022, 24, 7512-7520.	2.8	0