

Chengyan Liu

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

72
citations

1684188

5
h-index

1588992

8
g-index

10
all docs

10
docs citations

10
times ranked

60
citing authors

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