

Ji-Hui Yang

List of Publications by Year in descending order

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39
papers

4,770
citations

279701

23
h-index

315616

38
g-index

39
all docs

39
docs citations

39
times ranked

6877
citing authors

#	ARTICLE	IF	CITATIONS
1	Halide perovskite materials for solar cells: a theoretical review. Journal of Materials Chemistry A, 2015, 3, 8926-8942.	5.2	1,114
2	Design of Lead-Free Inorganic Halide Perovskites for Solar Cells via Cation-Transmutation. Journal of the American Chemical Society, 2017, 139, 2630-2638.	6.6	714
3	Intrinsic point defects and complexes in the quaternary kesterite semiconductor $\text{Cu}_{2-x}\text{Sn}_{1+x}\text{S}_4$ Compositional dependence of structural and electronic properties of Cu Physical Review B, 2010, 81, .	1.1	624
4	Wurtzite-derived polytypes of kesterite and stannite quaternary chalcogenide semiconductors. $\text{ZnSn(S,Se)}_{1-x}\text{Sn}_x$ Physical Review B, 2010, 82, .	1.1	399
5	Predicting Two-Dimensional Boronâ€“Carbon Compounds by the Global Optimization Method. Journal of the American Chemical Society, 2011, 133, 16285-16290.	6.6	242
7	Effective band gap narrowing of anatase TiO2 by strain along a soft crystal direction. Applied Physics Letters, 2010, 96, .	1.5	185
8	Structural diversity and electronic properties of Cu $\text{Sn}_{2-x}\text{Cu}_x\text{S}_4$ Physical Review B, 2010, 81, .		

#	ARTICLE	IF	CITATIONS
19	Earth-Abundant and Non-Toxic SiX (X = S, Se) Monolayers as Highly Efficient Thermoelectric Materials. Journal of Physical Chemistry C, 2017, 121, 123-128.	1.5	41
20	What are grain boundary structures in graphene?. Nanoscale, 2014, 6, 4309-4315.	2.8	34
21	First-principles multiple-barrier diffusion theory: The case study of interstitial diffusion in CdTe. Physical Review B, 2015, 91, .	1.1	33
22	Phosphorus Diffusion Mechanisms and Deep Incorporation in Polycrystalline and Single-Crystalline CdTe. Physical Review Applied, 2016, 5, .	1.5	26
23	Design of Two-Dimensional Graphene-like Dirac Materials \hat{I}^2_{12} -XBeB ₅ (X = H, F). Tj ETQq1 1 0.784314 rgBT / Overlock 10 T	2.1	23
24	Carrier providers or killers: The case of Cu defects in CdTe. Applied Physics Letters, 2017, 111, 042106.	1.5	22
25	Defect properties of Sb- and Bi-doped CuInSe ₂ : The effect of the deep lone-pair <i>s</i> states. Applied Physics Letters, 2014, 105, .	1.5	21
26	Unusual Negative Formation Enthalpies and Atomic Ordering in Isovalent Alloys of Transition Metal Dichalcogenide Monolayers. Chemistry of Materials, 2018, 30, 1547-1555.	3.2	20
27	Semiconducting $\hat{I}^{\pm} \hat{\epsilon}^2$ -boron sheet with high mobility and low all-boron contact resistance: a first-principles study. Nanoscale, 2021, 13, 8474-8480.	2.8	15
28	Dimensionality-Inhibited Chemical Doping in Two-Dimensional Semiconductors: The Phosphorene and MoS ₂ from Charge-Correction Method. Nano Letters, 2021, 21, 6711-6717.	4.5	14
29	Fully Boron-Sheet-Based Field Effect Transistors from First-Principles: Inverse Design of Semiconducting Boron Sheets. Journal of Physical Chemistry Letters, 2021, 12, 576-584.	2.1	14
30	Antimony Diffusion in CdTe. IEEE Journal of Photovoltaics, 2017, 7, 870-873.	1.5	11
31	Cu-Zn disorder in stoichiometric and non-stoichiometric Cu ₂ ZnSnS ₄ /Cu ₂ ZnSnSe ₄ . AIP Advances, 2019, 9, .	0.6	11
32	Stacking induced indirect-to-direct bandgap transition in layered group-IV monochalcogenides for ideal optoelectronics. Journal of Materials Chemistry C, 2019, 7, 11858-11867.	2.7	10
33	Self-consistently determining structures of charged defects and defect ionization energies in low-dimensional semiconductors. Physical Review B, 2020, 102, .	1.1	9
34	Unusual interlayer coupling in layered Cu-based ternary chalcogenides CuMCh ₂ (M = Sb,) Tj ETQq0 0 0 rgBT / Overlock 10 T	2.8	7
35	Computational Study of the C ₂ P ₄ Monolayer as a Stable Two-Dimensional Material with High Carrier Mobility: Implications for Nanoelectronic Devices. ACS Applied Nano Materials, 2022, 5, 6972-6979.	2.4	4
36	Unusual defect properties in multivalent perovskite $\langle \text{mml:math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:msub}>\langle \text{mml:mi}>\text{Cs}</\text{mml:mi}>\langle \text{mml:mn}>2</\text{mml:mn}></\text{mml:msub}></\text{mml:mrow}></\text{mml:math}>$: A first-principles study. Physical Review Materials, 2021, 5, .	0.9	3

#	ARTICLE	IF	CITATIONS
37	Semiconductor-to-metal transition from monolayer to bilayer blue phosphorous induced by extremely strong interlayer coupling: a first-principles study. <i>Nanoscale</i> , 2022, 14, 4082-4088.	2.8	3
38	Enhancing Hole Density and Suppressing Recombination Centers through Illumination in Kesterite Thin Film Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2474-2478.	2.1	3
39	Notice of Removal Antimony diffusion in CdTe. , 2017, , .		0