

Xiaolin Cai

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2660960/publications.pdf>

Version: 2024-02-01

15
papers

179
citations

1040056

9
h-index

1125743

13
g-index

15
all docs

15
docs citations

15
times ranked

226
citing authors

#	ARTICLE	IF	CITATIONS
1	A two-dimensional MoSe ₂ /MoSi ₂ N ₄ van der Waals heterostructure with high carrier mobility and diversified regulation of its electronic properties. Journal of Materials Chemistry C, 2021, 9, 10073-10083.	5.5	32
2	Strain induced quantum spin Hall insulator in monolayer $\hat{1}^2$ -BiSb from first-principles study. RSC Advances, 2017, 7, 27816-27822.	3.6	26
3	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
4	Strain Tunable Bandgap and High Carrier Mobility in SiAs and SiAs ₂ Monolayers from First-Principles Studies. Nanoscale Research Letters, 2018, 13, 404.	5.7	17
5	Stable GaSe-Like Phosphorus Carbide Monolayer with Tunable Electronic and Optical Properties from Ab Initio Calculations. Materials, 2018, 11, 1937.	2.9	13
6	Enhanced carrier mobility and tunable electronic properties in $\hat{1}^{\pm}$ -tellurene monolayer via an $\hat{1}^{\pm}$ -tellurene and h-BN heterostructure. Physical Chemistry Chemical Physics, 2020, 22, 6434-6440.	2.8	13
7	Electronic and hyperbolic dielectric properties of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Zr} \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{S} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Hf} \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \text{S} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ heterostructures. Physical Review B, 2019, 100, .	3.2	10
8	Midinfrared one-dimensional photonic crystal constructed from two-dimensional electride material. Physical Review B, 2018, 98, .	3.2	10
9	Transition from an indirect type-I to a direct type-II bandgap in $\hat{1}^{\pm}$ -tellurene/Ca(OH) ₂ heterostructures with excellent optical properties. Journal of Materials Chemistry C, 2020, 8, 12291-12301.	5.5	10
10	Rotated angular modulated electronic and optical properties of bilayer phosphorene: A first-principles study. Applied Physics Letters, 2020, 117, .	3.3	10
11	A class of two-dimensional SiAs monolayers with novel electronic and optical properties from ab initio investigations. European Physical Journal Plus, 2019, 134, 1.	2.6	8
12	Structural, Topological, and Superconducting Properties of Two-Dimensional Tellurium Allotropes from Ab Initio Predictions. Advanced Theory and Simulations, 2021, 4, 2000265.	2.8	4
13	Bandwidth convertible mid-infrared absorption of one-dimensional quasi-periodic system containing Dirac semimetals. Optics Communications, 2021, 482, 126603.	2.1	1
14	Subwavelength interference nanolithography based on metallic-insulator-metallic waveguide with a trapezoid metallic nanoslit coupler. Journal of Nanophotonics, 2019, 13, 1.	1.0	1
15	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