

# Xiaolin Cai

## List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	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
2	Two-Dimensional Type-II BP/MoSi <sub>2</sub> P <sub>4</sub> vdW Heterostructures for High-Performance Solar Cells. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4677-4683.	3.1	22
3	Bandwidth convertible mid-infrared absorption of one-dimensional quasi-periodic system containing Dirac semimetals. <i>Optics Communications</i> , 2021, 482, 126603.	2.1	1
4	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
5	A two-dimensional MoSe <sub>2</sub> /MoSi <sub>2</sub> N <sub>4</sub> van der Waals heterostructure with high carrier mobility and diversified regulation of its electronic properties. <i>Journal of Materials Chemistry C</i> , 2021, 9, 10073-10083.	5.5	32
6	Transition from an indirect type-I to a direct type-II bandgap in $\hat{1}\pm$ -tellurene/Ca(OH) <sub>2</sub> heterostructures with excellent optical properties. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12291-12301.	5.5	10
7	Rotated angular modulated electronic and optical properties of bilayer phosphorene: A first-principles study. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	10
8	Enhanced carrier mobility and tunable electronic properties in $\hat{1}\pm$ -tellurene monolayer via an $\hat{1}\pm$ -tellurene and h-BN heterostructure. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 6434-6440.	2.8	13
9	Electronic and hyperbolic dielectric properties of $ZrS_2/HfS_2$ heterostructures. <i>Physical Review B</i> , 2019, 100, .	3.2	12
10	A class of two-dimensional SiAs monolayers with novel electronic and optical properties from ab initio investigations. <i>European Physical Journal Plus</i> , 2019, 134, 1.	2.6	8
11	Subwavelength interference nanolithography based on metallic-insulator-metallic waveguide with a trapezoid metallic nanoslit coupler. <i>Journal of Nanophotonics</i> , 2019, 13, 1.	1.0	1
12	Strain Tunable Bandgap and High Carrier Mobility in SiAs and SiAs <sub>2</sub> Monolayers from First-Principles Studies. <i>Nanoscale Research Letters</i> , 2018, 13, 404.	5.7	17
13	Stable GaSe-Like Phosphorus Carbide Monolayer with Tunable Electronic and Optical Properties from Ab Initio Calculations. <i>Materials</i> , 2018, 11, 1937.	2.9	13
14	Midinfrared one-dimensional photonic crystal constructed from two-dimensional electride material. <i>Physical Review B</i> , 2018, 98, .	3.2	10
15	Strain induced quantum spin Hall insulator in monolayer $\hat{1}^2$ -BiSb from first-principles study. <i>RSC Advances</i> , 2017, 7, 27816-27822.	3.6	26