

# Ruixiang Fei

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

4,650  
citations

304368

22  
h-index

433756

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

6041  
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain-Engineering the Anisotropic Electrical Conductance of Few-Layer Black Phosphorus. Nano Letters, 2014, 14, 2884-2889.	4.5	1,125
2	Enhanced Thermoelectric Efficiency via Orthogonal Electrical and Thermal Conductances in Phosphorene. Nano Letters, 2014, 14, 6393-6399.	4.5	680
3	Giant piezoelectricity of monolayer group IV monochalcogenides: SnSe, SnS, GeSe, and GeS. Applied Physics Letters, 2015, 107, .	1.5	569
4	Ferroelectricity and Phase Transitions in Monolayer Group-IV Monochalcogenides. Physical Review Letters, 2016, 117, 097601.	2.9	468
5	Quantum oscillations in a two-dimensional electron gas in black phosphorus thin films. Nature Nanotechnology, 2015, 10, 608-613.	15.6	282
6	Tunable and sizable band gap in silicene by surface adsorption. Scientific Reports, 2012, 2, 853.	1.6	253
7	Lattice vibrational modes and Raman scattering spectra of strained phosphorene. Applied Physics Letters, 2014, 105, .	1.5	154
8	Low-symmetry two-dimensional materials for electronic and photonic applications. Nano Today, 2016, 11, 763-777.	6.2	113
9	HALF-METALLIC SILICENE AND GERMANENE NANORIBBONS: TOWARDS HIGH-PERFORMANCE SPINTRONICS DEVICE. Nano, 2012, 07, 1250037.	0.5	105
10	Many-Body Effect and Device Performance Limit of Monolayer InSe. ACS Applied Materials & Interfaces, 2018, 10, 23344-23352.	4.0	98
11	Topologically protected Dirac cones in compressed bulk black phosphorus. Physical Review B, 2015, 91, .	1.1	90
12	Artificial Multiferroics and Enhanced Magnetoelectric Effect in van der Waals Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 6243-6249.	4.0	81
13	Quasiparticle energies, excitons, and optical spectra of few-layer black phosphorus. 2D Materials, 2015, 2, 044014.	2.0	77
14	Electric-Field-Induced Energy Gap in Few-Layer Graphene. Journal of Physical Chemistry C, 2011, 115, 9458-9464.	1.5	72
15	Remarkable anisotropic phonon response in uniaxially strained few-layer black phosphorus. Nano Research, 2015, 8, 3944-3953.	5.8	68
16	Meron-like topological spin defects in monolayer CrCl <sub>3</sub> . Nature Communications, 2020, 11, 4724.	5.8	65
17	Off-plane polarization ordering in metal chalcogen diphosphates from bulk to monolayer. Physical Review B, 2017, 96, .	1.1	60
18	Curie temperature of emerging two-dimensional magnetic structures. Physical Review B, 2019, 100, .	1.1	47

#	ARTICLE	IF	CITATIONS
19	Giant photogalvanic effect and second-harmonic generation in magnetic axion insulators. <i>Physical Review B</i> , 2020, 102, .	1.1	39
20	Shift-current bulk photovoltaic effect influenced by quasiparticle and exciton. <i>Physical Review B</i> , 2020, 101, .	1.1	37
21	Observation of excitonic series in monolayer and few-layer black phosphorus. <i>Physical Review B</i> , 2020, 101, .	1.1	25
22	Mechanism of Extreme Optical Nonlinearities in Spiral $WS_2$ above the Bandgap. <i>Nano Letters</i> , 2020, 20, 2667-2673.	4.5	25
23	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \text{P} \langle \text{mml:mi} \text{T} \langle \text{mml:mrow} \langle \text{mml:math} \text{-Symmetry-Enabled Spin Circular Photogalvanic Effect in Antiferromagnetic Insulators. Physical Review Letters. 2021, 127, 207402.} \rangle \rangle \rangle \rangle \rangle$	2.9	22
24	Standing and sitting adlayers in atomic layer deposition of ZnO. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2016, 34, .	0.9	20
25	Switchable Enhanced Spin Photocurrent in Rashba and Cubic Dresselhaus Ferroelectric Semiconductors. <i>Nano Letters</i> , 2021, 21, 2265-2271.	4.5	15
26	Origin of the anomalous Pb-Br bond dynamics in formamidinium lead bromide perovskites. <i>Physical Review B</i> , 2020, 101, .	1.1	14
27	Nonreciprocal second-harmonic generation in few-layer chromium triiodide. <i>Physical Review B</i> , 2020, 102, .	1.1	13
28	Electronic and transport properties of a biased multilayer hexagonal boron nitride. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	11
29	Room-temperature ferroelectric switching. <i>Nature Electronics</i> , 2021, 4, 703-704.	13.1	8
30	Enhanced many-body effects in one-dimensional linear atomic chains. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 1636-1643.	0.7	7
31	Stromataxic Stabilization of a Metastable Layered $ScFeO_3$ Polymorph. <i>Chemistry of Materials</i> , 2021, 33, 7423-7431.	3.2	6
32	Tunable and sizable band gap in silicene by surface adsorption. , 0, .		1