

Jing Fan

List of Publications by Year in descending order

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36
papers

2,023
citations

687363

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377865

34
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all docs

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docs citations

36
times ranked

2869
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging topological edge states in silicon photonics. <i>Nature Photonics</i> , 2013, 7, 1001-1005.	31.4	1,264
2	Understanding the Doping Effect on NiO: Toward High-Performance Inverted Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1703519.	19.5	286
3	Improvement of the coercivity of strontium hexaferrite induced by substitution of Al ³⁺ ions for Fe ³⁺ ions. <i>Journal of Alloys and Compounds</i> , 2012, 537, 43-49.	5.5	74
4	Two-Dimensional Metal-Phosphorus Network. <i>Matter</i> , 2020, 2, 111-118.	10.0	39
5	Hourglass phonons jointly protected by symmorphic and nonsymmorphic symmetries. <i>Physical Review B</i> , 2021, 104, .	3.2	35
6	Photon-generated carriers excite superoxide species inducing long-term photoluminescence enhancement of MAPbI ₃ perovskite single crystals. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12048-12053.	10.3	34
7	Intrinsic quantum anomalous Hall phase induced by proximity in the van der Waals heterostructure germanene/ CrI_3 . <i>Physical Review B</i> , 2020, 101, .	3.2	23
8	Strain-induced water dissociation on supported ultrathin oxide films. <i>Scientific Reports</i> , 2016, 6, 22853.	3.3	19
9	The Enhancement of Surface Reactivity on CeO ₂ (111) Mediated by Subsurface Oxygen Vacancies. <i>Journal of Physical Chemistry C</i> , 2016, 120, 27917-27924.	3.1	17
10	Strain-tunable out-of-plane polarization in two-dimensional materials. <i>Physical Review B</i> , 2020, 101, .	3.2	16
11	Floquet valley-polarized quantum anomalous Hall state in nonmagnetic heterobilayers. <i>Physical Review B</i> , 2022, 105, .	3.2	16
12	Symmetry-enforced nodal cage phonons in ThTe_2 . <i>Physical Review B</i> , 2022, 105, .	3.2	16
13	Generation of highly reactive oxygen species on metal-supported MgO(100) thin films. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 25373-25379.	2.8	15
14	Dirac Fermions in the Boron Nitride Monolayer with a Tetragon. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 5508-5513.	4.6	14
15	Enhanced p-Type Conductivity of NiO Films with Divalent Cd Ion Doping for Efficient Inverted Perovskite Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17434-17443.	8.0	13
16	Intrinsic Role of Excess Electrons in Surface Reactions on Rutile TiO ₂ (110): Using Water and Oxygen as Probes. <i>Journal of Physical Chemistry C</i> , 2018, 122, 8270-8276.	3.1	12
17	Photoinduced Floquet mixed-Weyl semimetallic phase in a carbon allotrope. <i>Physical Review B</i> , 2020, 102, .	3.2	12
18	Dirac Fermions in Graphene with Stacking Fault Induced Periodic Line Defects. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10874-10879.	4.6	12

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19	Magnetic field induced valley-polarized quantum anomalous Hall effects in ferromagnetic van der Waals heterostructures. <i>Physical Review B</i> , 2022, 105, .	3.2	11
20	Comment on "Interplay between Water and TiO ₂ Anatase (101) Surface with Subsurface Oxygen Vacancy". <i>Physical Review Letters</i> , 2015, 115, 149601.	7.8	10
21	Controllable dissociation of H ₂ O on a CeO ₂ (111) surface. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 1575-1582.	2.8	10
22	Perovskite Solar Cells: Understanding the Doping Effect on NiO: Toward High-Performance Inverted Perovskite Solar Cells (<i>Adv. Energy Mater.</i> 19/2018). <i>Advanced Energy Materials</i> , 2018, 8, 1870091.	19.5	10
23	Designing efficient single-atomic catalysts for bifunctional oxygen electrocatalysis via a general two-step strategy. <i>Applied Surface Science</i> , 2021, 556, 149779.	6.1	10
24	How to get superhard MnB ₂ : a first-principles study. <i>Journal of Materials Chemistry</i> , 2012, 22, 17630.	6.7	9
25	Structural stability and electrical properties of AlB ₂ -type MnB ₂ under high pressure. <i>Chinese Physics B</i> , 2014, 23, 016102.	1.4	8
26	Interplay of Charged States and Oxygen Dissociation Induced by Vacancies in Phosphorene. <i>Journal of Physical Chemistry C</i> , 2019, 123, 27080-27087.	3.1	8
27	High volumetric hydrogen density phases of magnesium borohydride at high-pressure: A first-principles study. <i>Chinese Physics B</i> , 2012, 21, 086104.	1.4	6
28	Quasi-One-Dimensional Metal-Insulator Transitions in Compound Semiconductor Surfaces. <i>Physical Review Letters</i> , 2016, 117, 116101.	7.8	5
29	Zhao et al. Reply. <i>Physical Review Letters</i> , 2017, 118, 239602.	7.8	4
30	The Dirac cone in two-dimensional tetragonal silicon carbides: a ring coupling mechanism. <i>Nanoscale</i> , 2021, 13, 18267-18272.	5.6	4
31	Structure determination of ultra dense magnesium borohydride: A first-principles study. <i>Journal of Chemical Physics</i> , 2013, 138, 214503.	3.0	3
32	Generating robust two-dimensional hole gas at the interface between boron nitride and diamond. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 090910.	1.5	3
33	Surface reactivity enhancement by O ₂ dissociation on a single-layer MgO film deposited on metal substrate. <i>Journal of Chemical Physics</i> , 2016, 145, 164701.	3.0	2
34	Spin-polarized topological phases in a ferromagnetic $\text{Bi}_2\text{Mn}_2\text{O}_7$ bilayer tuned by electric and magnetic fields. <i>Physical Review B</i> , 2022, 105, .		
35	(DSF)-graphene: a carbon semimetal with double stacking faults. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2103-2108.	5.5	1
36	Computational screening of single transition metal atom embedded in nitrogen doped graphene for CH ₄ detection. <i>Materials Today Communications</i> , 2022, 31, 103383.	1.9	0