

# Yuan Ping Feng

## List of Publications by Year in descending order

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519  
papers

25,134  
citations

8208

78  
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12272

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525  
all docs

525  
docs citations

525  
times ranked

31868  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure dependent and strain tunable magnetic ordering in ultrathin chromium telluride. Journal of Alloys and Compounds, 2022, 893, 162223.	2.8	8
2	Emergent Kagome Electrudes. Journal of the American Chemical Society, 2022, 144, 5527-5534.	6.6	31
3	Reply to: Detectivities of WS <sub>2</sub> /HfS <sub>2</sub> heterojunctions. Nature Nanotechnology, 2022, 17, 220-221.	15.6	5
4	Epitaxial Growth of Ultraflat Bismuthene with Large Topological Band Inversion Enabled by Substrate-Orbital-Filtering Effect. ACS Nano, 2022, 16, 1436-1443.	7.3	16
5	MBE-grown ultrathin PtTe <sub>2</sub> films and their layer-dependent electronic structures. Nanoscale, 2022, 14, 7650-7658.	2.8	7
6	Formation of magnetic anionic electrons by hole doping. Journal of Materials Chemistry C, 2022, 10, 7674-7679.	2.7	3
7	Boost the large driving photovoltages for overall water splitting in direct Z-scheme heterojunctions by interfacial polarization. Catalysis Science and Technology, 2022, 12, 3614-3621.	2.1	10
8	High-Throughput Computational Discovery and Intelligent Design of Two-Dimensional Functional Materials for Various Applications. Accounts of Materials Research, 2022, 3, 572-583.	5.9	21
9	Design of platinum single-atom doped metal nanoclusters as efficient oxygen reduction electrocatalysts by coupling electronic descriptor. Nano Research, 2022, 15, 7016-7025.	5.8	15
10	Real-space Investigation of the Multiple Halogen Bonds by Ultrahigh-resolution Scanning Probe Microscopy. Small, 2022, 18, .	5.2	7
11	Developing Dipole-scheme heterojunction photocatalysts. Applied Surface Science, 2022, 599, 153942.	3.1	6
12	Single-crystalline TiO <sub>2</sub> (B) Nanobelts with Unusual Large Exposed {100} Facets and Enhanced Li-ion Storage Capacity. Advanced Functional Materials, 2021, 31, 2002187.	7.8	25
13	Efficient Hydrogen Evolution of Oxidized Ni <sub>3</sub> Defective Sites for Alkaline Freshwater and Seawater Electrolysis. Advanced Materials, 2021, 33, e2003846.	11.1	198
14	Phase stability of monolayer Si <sub>1-x</sub> Gex alloys with a Dirac cone. Nanoscale, 2021, 13, 8607-8613.	2.8	3
15	Boosting the photon absorption, exciton dissociation, and photocatalytic hydrogen- and oxygen-evolution reactions by built-in electric fields in Janus platinum dichalcogenides. Journal of Materials Chemistry C, 2021, 9, 15026-15033.	2.7	28
16	Ag <sub>2</sub> S monolayer: an ultrasoft inorganic Lieb lattice. Nanoscale, 2021, 13, 14008-14015.	2.8	10
17	Phase diagram and superlattice structures of monolayer phosphorus carbide ( $TjETQq110.784314rgBT/Overlock10Tf5$ )	0.9	3
18	Two-dimensional topological superconductivity candidate in a van der Waals layered material. Physical Review B, 2021, 103, .	1.1	18

#	ARTICLE	IF	CITATIONS
19	Reversible hydrogen control of antiferromagnetic anisotropy in $\hat{1}\pm$ -Fe <sub>2</sub> O <sub>3</sub> . Nature Communications, 2021, 12, 1668.	5.8	30
20	Recent progress and challenges in magnetic tunnel junctions with 2D materials for spintronic applications. Applied Physics Reviews, 2021, 8, .	5.5	74
21	Precise Layer-Dependent Electronic Structure of MBE-Grown PtSe <sub>2</sub> . Advanced Electronic Materials, 2021, 7, 2100559.	2.6	16
22	Room Temperature Ferromagnetism of Monolayer Chromium Telluride with Perpendicular Magnetic Anisotropy. Advanced Materials, 2021, 33, e2103360.	11.1	84
23	A first principles study of uniaxial strain-stabilized long-range ferromagnetic ordering in electrenes. Journal of Materials Chemistry C, 2021, 9, 16576-16580.	2.7	5
24	Controllable phase transitions between multiple charge density waves in monolayer 1T-VSe <sub>2</sub> via charge doping. Applied Physics Letters, 2021, 119, 163101.	1.5	7
25	Tunable Rashba spin-orbit coupling and its interplay with multiorbital effect and magnetic ordering at oxide interfaces. Physical Review B, 2021, 104, .	1.1	8
26	Bi-stable electronic states of cobalt phthalocyanine molecules on two-dimensional vanadium diselenide. Applied Materials Today, 2020, 18, 100535.	2.3	9
27	High-throughput screening of transition metal single atom catalysts anchored on molybdenum disulfide for nitrogen fixation. Nano Energy, 2020, 68, 104304.	8.2	136
28	Realization of a Buckled Antimonene Monolayer on Ag(111) via Surface Engineering. Journal of Physical Chemistry Letters, 2020, 11, 8976-8982.	2.1	23
29	Interfacial Oxygen-Driven Charge Localization and Plasmon Excitation in Unconventional Superconductors. Advanced Materials, 2020, 32, 2000153.	11.1	10
30	Emergent Topological Hall Effect at a Charge-Transfer Interface. Small, 2020, 16, e2004683.	5.2	14
31	Molecular Beam Epitaxy of Two-Dimensional Vanadium-Molybdenum Diselenide Alloys. ACS Nano, 2020, 14, 11140-11149.	7.3	28
32	Gas Sensors: Highly Sensitive and Selective Sensors for CF <sub>4</sub> Gas Molecules Based on Two-Node Hollow Fullerene (Adv. Mater. Interfaces 20/2020). Advanced Materials Interfaces, 2020, 7, 2070114.	1.9	0
33	Cuprate Thin Films: Interfacial Oxygen-Driven Charge Localization and Plasmon Excitation in Unconventional Superconductors (Adv. Mater. 34/2020). Advanced Materials, 2020, 32, 2070257.	11.1	0
34	Highly Sensitive and Selective Sensors for CF <sub>4</sub> Gas Molecules Based on Two-Node Hollow Fullerene. Advanced Materials Interfaces, 2020, 7, 2000985.	1.9	4
35	Atomic-Level Electronic Properties of Carbon Nitride Monolayers. ACS Nano, 2020, 14, 14008-14016.	7.3	22
36	Thickness and Ferroelectric Polarization Influence on Film Magnetic Anisotropy across a Multiferroic Material Interface. ACS Applied Materials & Interfaces, 2020, 12, 44317-44324.	4.0	2

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37	Atomic-orbital-free intrinsic ferromagnetism in electrenes. <i>Physical Review B</i> , 2020, 102, .	1.1	34
38	Imprinting Ferromagnetism and Superconductivity in Single Atomic Layers of Molecular Superlattices. <i>Advanced Materials</i> , 2020, 32, e1907645.	11.1	25
39	Modulating Multiferroic Control of Magnetocrystalline Anisotropy Using 5d Transition Metal Capping Layers. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 25383-25389.	4.0	13
40	Perpendicular Magnetic Anisotropy and Dzyaloshinskii-Moriya Interaction at an Oxide/Ferromagnetic Metal Interface. <i>Physical Review Letters</i> , 2020, 124, 217202.	2.9	27
41	High-Throughput Identification of Exfoliable Two-Dimensional Materials with Active Basal Planes for Hydrogen Evolution. <i>ACS Energy Letters</i> , 2020, 5, 2313-2321.	8.8	54
42	Controlling the magnetic anisotropy in Cr <sub>2</sub> Ge <sub>2</sub> Te <sub>6</sub> by electrostatic gating. <i>Nature Electronics</i> , 2020, 3, 460-465.	13.1	145
43	Experimental Realization of One-Dimensional Metal-Inorganic Chain: Gold-Phosphorus Chain. , 2020, 2, 873-879.		9
44	Domain Engineering in ReS <sub>2</sub> by Coupling Strain during Electrochemical Exfoliation. <i>Advanced Functional Materials</i> , 2020, 30, 2003057.	7.8	22
45	Electronic structure, thermodynamic stability and high-temperature sensing properties of Er <sup>3+</sup> -SiAlON ceramics. <i>Scientific Reports</i> , 2020, 10, 4952.	1.6	17
46	Squeezed metallic droplet with tunable Kubo gap and charge injection in transition metal dichalcogenides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 6362-6369.	3.3	33
47	High oscillator strength interlayer excitons in two-dimensional heterostructures for mid-infrared photodetection. <i>Nature Nanotechnology</i> , 2020, 15, 675-682.	15.6	129
48	Synergizing Mo Single Atoms and Mo <sub>2</sub> C Nanoparticles on CNTs Synchronizes Selectivity and Activity of Electrocatalytic N <sub>2</sub> Reduction to Ammonia. <i>Advanced Materials</i> , 2020, 32, e2002177.	11.1	190
49	Diverse Transport Behaviors in Cyclo[18]carbon-Based Molecular Devices. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 2611-2617.	2.1	52
50	Electrode-controlled confinement of conductive filaments in a nanocolumn embedded symmetric-asymmetric RRAM structure. <i>Journal of Materials Chemistry C</i> , 2020, 8, 1577-1582.	2.7	16
51	Anisotropic Collective Charge Excitations in Quasimetallic 2D Transition-Metal Dichalcogenides. <i>Advanced Science</i> , 2020, 7, 1902726.	5.6	6
52	Transition-Metal Dichalcogenides: Anisotropic Collective Charge Excitations in Quasimetallic 2D Transition-Metal Dichalcogenides ( <i>Adv. Sci.</i> 10/2020). <i>Advanced Science</i> , 2020, 7, .	5.6	1
53	Mid-IR photodetection by interlayer exciton in 2D heterostructure. , 2020, , .		0
54	Topological Hall Effect: Emergent Topological Hall Effect at a Charge-Transfer Interface (Small) Tj ETQq0 0 0 rgBT /Qverlock_10 Tf 50 6.	5.2	1

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55	Chemically Exfoliated VSe <sub>2</sub> Monolayers with Room-Temperature Ferromagnetism. <i>Advanced Materials</i> , 2019, 31, e1903779.	11.1	251
56	Formation of two-dimensional small polarons at the conducting $\text{LaAlO}_3/\text{SrTiO}_3$ interface. <i>Physical Review B</i> , 2019, 100, .	9.1	26
57	Magnetic Transition in Monolayer VSe <sub>2</sub> <i>via</i> Interface Hybridization. <i>ACS Nano</i> , 2019, 13, 8997-9004.	7.3	94
58	Excitons: Modulation of New Excitons in Transition Metal Dichalcogenide/Perovskite Oxide System ( <i>Adv. Sci.</i> 12/2019). <i>Advanced Science</i> , 2019, 6, 1970073.	5.6	3
59	Selective self-assembly of 2,3-diaminophenazine molecules on MoSe <sub>2</sub> mirror twin boundaries. <i>Nature Communications</i> , 2019, 10, 2847.	5.8	26
60	Electrically controlled spin-switch and evolution of Hanle spin precession in graphene. <i>2D Materials</i> , 2019, 6, 035042.	2.0	12
61	Artificial two-dimensional polar metal by charge transfer to a ferroelectric insulator. <i>Communications Physics</i> , 2019, 2, .	2.0	26
62	Spin dynamics study in layered van der Waals single-crystal $\text{CrI}_2$ . <i>Physical Review B</i> , 2019, 100, .	2.6	26
63	Metallic 1T Phase, 3d <sup>1</sup> Electronic Configuration and Charge Density Wave Order in Molecular Beam Epitaxy Grown Monolayer Vanadium Ditelluride. <i>ACS Nano</i> , 2019, 13, 12894-12900.	7.3	48
64	Three-Dimensional Resonant Exciton in Monolayer Tungsten Diselenide Actuated by Spin-Orbit Coupling. <i>ACS Nano</i> , 2019, 13, 14529-14539.	7.3	10
65	Field-Effect Transistors: A Facile and Effective Method for Patching Sulfur Vacancies of WS <sub>2</sub> via Nitrogen Plasma Treatment ( <i>Small</i> 36/2019). <i>Small</i> , 2019, 15, 1970195.	5.2	0
66	Electronic correlation determining correlated plasmons in Sb-doped $\text{Bi}_2\text{S}_3$ . <i>Physical Review B</i> , 2019, 100, .	1.1	5
67	Physi Copper Single Atoms Anchored in Porous Nitrogen-Doped Carbon as Efficient pH-Universal Catalysts for the Nitrogen Reduction Reaction. <i>ACS Catalysis</i> , 2019, 9, 10166-10173.	5.5	284
68	Unraveling High-Yield Phase-Transition Dynamics in Transition Metal Dichalcogenides on Metallic Substrates. <i>Advanced Science</i> , 2019, 6, 1802093.	5.6	23
69	Ruderman-Kittel-Kasuya-Yosida Mechanism for Magnetic Ordering of Sparse Fe Adatoms on Graphene. <i>Journal of Physical Chemistry C</i> , 2019, 123, 4441-4445.	1.5	14
70	A Facile and Effective Method for Patching Sulfur Vacancies of WS <sub>2</sub> via Nitrogen Plasma Treatment. <i>Small</i> , 2019, 15, e1901791.	5.2	48
71	Engineering Interfacial Perpendicular Magnetic Anisotropy in Fe <sub>2</sub> CoSi/Pt Multilayers with Interfacial Strain and Orbital Hybridization. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1251-1260.	2.0	7
72	Stimulated Electrocatalytic Hydrogen Evolution Activity of MOF-Derived MoS <sub>2</sub> Basal Domains via Charge Injection through Surface Functionalization and Heteroatom Doping. <i>Advanced Science</i> , 2019, 6, 1900140.	5.6	73

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73	Tungsten boride: a 2D multiple Dirac semimetal for the hydrogen evolution reaction. Journal of Materials Chemistry C, 2019, 7, 8868-8873.	2.7	52
74	2D MatPedia, an open computational database of two-dimensional materials from top-down and bottom-up approaches. Scientific Data, 2019, 6, 86.	2.4	201
75	Modulation of New Excitons in Transition Metal Dichalcogenide-Perovskite Oxide System. Advanced Science, 2019, 6, 1900446.	5.6	6
76	Band Gap Opening in 8-Pmm Borophene by Hydrogenation. ACS Applied Electronic Materials, 2019, 1, 667-674.	2.0	23
77	Phase stability of three-dimensional bulk and two-dimensional monolayer $\text{As}_x\text{Sb}_{1-x}$ solid solutions from first principles. Journal of Physics Condensed Matter, 2019, 31, 245702.	0.7	6
78	Discovery of Hidden Classes of Layered Electrides by Extensive High-Throughput Material Screening. Chemistry of Materials, 2019, 31, 1860-1868.	3.2	39
79	Review of borophene and its potential applications. Frontiers of Physics, 2019, 14, 1.	2.4	201
80	2D Transition Metal Dichalcogenide: Unraveling High-Yield Phase-Transition Dynamics in Transition Metal Dichalcogenides on Metallic Substrates (Adv. Sci. 7/2019). Advanced Science, 2019, 6, 1970042.	5.6	0
81	Piezoelectric control of resistance switching in $\text{VO}_2/\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ heterostructure. Applied Physics Letters, 2019, 114, .	1.5	5
82	Ferromagnet/Two-Dimensional Semiconducting Transition-Metal Dichalcogenide Interface with Perpendicular Magnetic Anisotropy. ACS Nano, 2019, 13, 2253-2261.	7.3	31
83	Serendipity of a topological nontrivial band gap in the 2D borophene subunit lattice with broken mirror symmetry. Physical Chemistry Chemical Physics, 2019, 21, 22526-22530.	1.3	1
84	High-Magnetization Tetragonal Ferrite-Based Films Induced by Carbon and Oxygen Vacancy Pairs. ACS Applied Materials & Interfaces, 2019, 11, 1049-1056.	4.0	5
85	Unravelling uniaxial strain effects on electronic correlations, hybridization and bonding in transition metal oxides. Acta Materialia, 2019, 164, 618-626.	3.8	3
86	Ultrathin Transition Metal Oxide: Atomically Thin 2D Transition Metal Oxides: Structural Reconstruction, Interaction with Substrates, and Potential Applications (Adv. Mater. Interfaces) Tj ETQq0 0 0 rgBT / Overlock 10 Tf 50 21		
87	Atomically Thin 2D Transition Metal Oxides: Structural Reconstruction, Interaction with Substrates, and Potential Applications. Advanced Materials Interfaces, 2019, 6, 1801160.	1.9	100
88	Spontaneous symmetry lowering of Si (001) towards two-dimensional ferro/antiferroelectric behavior. Physical Review Materials, 2019, 3, .	0.9	7
89	Phase stability of two-dimensional monolayer $\text{P}_x\text{As}_{1-x}$ solid solutions revealed by a first-principles cluster expansion. Physical Review Materials, 2019, 3, .	0.9	2
90	Elemental Ferroelectricity and Antiferroelectricity in Group-V Monolayer. Advanced Functional Materials, 2018, 28, 1707383.	7.8	145

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91	Kane Fermion in a Two-Dimensional $\pi$ -Conjugated Bis(iminothiolato)nickel Monolayer. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 614-619.	2.1	25
92	Efficient charge-spin conversion and magnetization switching through the Rashba effect at topological-insulator/Ag interfaces. <i>Physical Review B</i> , 2018, 97, .	1.1	53
93	Large valley splitting in monolayer $\text{WS}_2$ by proximity coupling to an insulating antiferromagnetic substrate. <i>Physical Review B</i> , 2018, 97, .	1.1	134
94	Phonon-Mediated Colossal Magnetoresistance in Graphene/Black Phosphorus Heterostructures. <i>Nano Letters</i> , 2018, 18, 3377-3383.	4.5	30
95	Hollow Mo-doped CoP nanoarrays for efficient overall water splitting. <i>Nano Energy</i> , 2018, 48, 73-80.	8.2	608
96	Ti1-Sn O2 nanofilms: Layer-by-layer deposition with extended Sn solubility and characterization. <i>Applied Surface Science</i> , 2018, 428, 710-717.	3.1	7
97	Direct Observation of Room-Temperature Stable Magnetism in $\text{LaAlO}_3/\text{SrTiO}_3$ Heterostructures. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9774-9781.	4.0	12
98	Generation of multiple plasmons in strontium niobates mediated by local field effects. <i>Physical Review B</i> , 2018, 98, .	1.1	20
99	High-Throughput Computational Screening of Vertical 2D van der Waals Heterostructures for High-efficiency Excitonic Solar Cells. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 32142-32150.	4.0	75
100	Quadratic contact point semimetal: Theory and material realization. <i>Physical Review B</i> , 2018, 98, .	1.1	57
101	Effect of $\text{Co}_x\text{Fe}_{1-x}\text{B}_{20}$ composition on. <i>Physical Review Applied</i> , 2018, 10, .	1.5	11
102	Tailoring sample-wide pseudo-magnetic fields on a graphene/black phosphorus heterostructure. <i>Nature Nanotechnology</i> , 2018, 13, 828-834.	15.6	113
103	Defect Evolution Enhanced Visible-Light Photocatalytic Activity in Nitrogen-Doped Anatase $\text{TiO}_2$ Thin Films. <i>Journal of Physical Chemistry C</i> , 2018, 122, 16600-16606.	1.5	19
104	One-dimensional thermoelectrics induced by Rashba spin-orbit coupling in two-dimensional BiSb monolayer. <i>Nano Energy</i> , 2018, 52, 163-170.	8.2	41
105	Robust two-dimensional bipolar magnetic semiconductors by defect engineering. <i>Journal of Materials Chemistry C</i> , 2018, 6, 8435-8443.	2.7	26
106	Effects of B and C doping on tunneling magnetoresistance in CoFe/MgO magnetic tunnel junctions. <i>Physical Review B</i> , 2018, 98, .	1.1	10
107	A super-stretchable boron nanoribbon network. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16510-16517.	1.3	8
108	Hydrogen Evolution Catalyzed by a Molybdenum Sulfide Two-Dimensional Structure with Active Basal Planes. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 22042-22049.	4.0	22

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109	Prospects of spintronics based on 2D materials. Wiley Interdisciplinary Reviews: Computational Molecular Science, 2017, 7, e1313.	6.2	161
110	Ultra-low magnetic damping of perovskite La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films. Applied Physics Letters, 2017, 110, .	1.5	45
111	Tunable and low-loss correlated plasmons in Mott-like insulating oxides. Nature Communications, 2017, 8, 15271.	5.8	42
112	New crystal structure prediction of fully hydrogenated borophene by first principles calculations. Scientific Reports, 2017, 7, 609.	1.6	41
113	Silicon Switchable Magnetolectric Effect through Interlayer Exchange Coupling. ChemPhysChem, 2017, 18, 1916-1920.	1.0	1
114	Tuning Contact Barrier Height between Metals and MoS <sub>2</sub> Monolayer through Interface Engineering. Advanced Materials Interfaces, 2017, 4, 1700035.	1.9	19
115	Unveiling the role of Co-O-Mg bond in magnetic anisotropy of Pt/Co using atomically controlled deposition and <i>in situ</i> electrical measurement. Physical Review B, 2017, 95, .	1.1	11
116	Dual Functional N Dopants in Edges and Basal Plane of MoS <sub>2</sub> Nanosheets Toward Efficient and Durable Hydrogen Evolution. Advanced Energy Materials, 2017, 7, 1602086.	10.2	286
117	Band structure engineering of borophene by first principles calculations. RSC Advances, 2017, 7, 47746-47752.	1.7	17
118	Pressure induced topological phase transition in layered Bi <sub>2</sub> S <sub>3</sub> . Physical Chemistry Chemical Physics, 2017, 19, 29372-29380.	1.3	18
119	Tunable Fluorescence Properties Due to Carbon Incorporation in Zinc Oxide Nanowires. Advanced Optical Materials, 2017, 5, 1700381.	3.6	10
120	Chern Insulator and Chern Half-Metal States in the Two-Dimensional Spin-Gapless Semiconductor Mn <sub>2</sub> C <sub>6</sub> S <sub>12</sub> . Journal of Physical Chemistry Letters, 2017, 8, 3770-3775.	2.1	30
121	La interstitial defect-induced insulator-metal transition in the oxide heterostructures LaAlO <sub>3</sub> /SrTiO <sub>3</sub> . Physical Review B, 2017, 96, .	1.1	11
122	Si <sub>24</sub> : An Efficient Solar Cell Material. Journal of Physical Chemistry C, 2017, 121, 15574-15579.	1.5	17
123	Giant crystalline anisotropic magnetoresistance in nonmagnetic perovskite oxide heterostructures. Physical Review B, 2017, 95, .	1.1	18
124	Layer-dependent semiconductor-metal transition of SnO/Si(001) heterostructure and device application. Scientific Reports, 2017, 7, 2570.	1.6	5
125	Electronic and optical properties of the monolayer group-IV monochalcogenides MX <sub>2</sub> .		

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127	Tunable magnetization relaxation of half-metallic Heusler alloys by band structure engineering. <i>Physical Review Materials</i> , 2017, 1, .	2.9	16
128	Achieving giant tunneling electroresistance and magnetoresistance by barrier and Heusler alloy electrode. <i>Physical Review Materials</i> , 2017, 1, .	0.9	3
129	Heterostructures of phosphorene and transition metal dichalcogenides for excitonic solar cells: A first-principles study. <i>Applied Physics Letters</i> , 2016, 108, .	1.5	90
130	High catalytic activity of oxygen-induced (200) surface of Ta <sub>2</sub> O <sub>5</sub> nanolayer towards durable oxygen evolution reaction. <i>Nano Energy</i> , 2016, 25, 60-67.	8.2	36
131	Interfacial Interaction between HfO <sub>2</sub> and MoS <sub>2</sub> : From Thin Films to Monolayer. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9804-9810.	1.5	27
132	Adsorption-enhanced spin-orbit coupling of buckled honeycomb silicon. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 83, 141-145.	1.3	0
133	Substoichiometric Molybdenum Sulfide Phases with Catalytically Active Basal Planes. <i>Journal of the American Chemical Society</i> , 2016, 138, 14121-14128.	6.6	28
134	Novel room-temperature spin-valve-like magnetoresistance in magnetically coupled nano-column Fe <sub>3</sub> O <sub>4</sub> /Ni heterostructure. <i>Nanoscale</i> , 2016, 8, 15737-15743.	2.8	9
135	Review on charge transfer and chemical activity of TiO <sub>2</sub> : Mechanism and applications. <i>Progress in Surface Science</i> , 2016, 91, 183-202.	3.8	76
136	Multiple unpinned Dirac points in group-Va single-layers with phosphorene structure. <i>Npj Computational Materials</i> , 2016, 2, .	3.5	57
137	The stability of aluminium oxide monolayer and its interface with two-dimensional materials. <i>Scientific Reports</i> , 2016, 6, 29221.	1.6	59
138	Tuning polarization states and interface properties of BaTiO <sub>3</sub> by metal capping layers. <i>Physical Review B</i> , 2016, 93, .	1.1	15
139	Electron-soft phonon scattering in SrTiO <sub>3</sub> . <i>Physical Review B</i> , 2016, 94, .	1.1	15
140	High anisotropy of fully hydrogenated borophene. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 31424-31430.	1.3	104
141	Stable ferromagnetic state in Si-doped AlN with cation vacancies: Ab-initio study. <i>International Journal of Computational Materials Science and Engineering</i> , 2016, 05, 1650017.	0.5	0
142	Giant tunneling electroresistance induced by ferroelectrically switchable two-dimensional electron gas at nonpolar BaTiO <sub>3</sub> . <i>Physical Review B</i> , 2016, 94, .	1.1	15
143	Tailoring Self-Polarization of BaTiO <sub>3</sub> Thin Films by Interface Engineering and Flexoelectric Effect. <i>Advanced Materials Interfaces</i> , 2016, 3, 1600737.	1.9	37
144	Ferromagnetism of wide-bandgap semiconductor surfaces: Mg-doped AlN. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 110302.	0.8	2

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145	Quantum anomalous Hall effect with field-tunable Chern number near critical point. Physical Review B, 2015, 92, .		
146	Interplay of electronic reconstructions, surface oxygen vacancies, and lattice distortions in insulator-metal transition of $\text{LaAlO}_3$ . Physical Review B, 2015, 92, .	1.1	38
147	Phosphorene: Giant Phononic Anisotropy and Unusual Anharmonicity of Phosphorene: Interlayer Coupling and Strain Engineering (Adv. Funct. Mater. 15/2015). Advanced Functional Materials, 2015, 25, 2343-2343.	7.8	10
148	Electrically Tunable In-Plane Anisotropic Magnetoresistance in Topological Insulator $\text{BiSbTeSe}_2$ Nanodevices. Nano Letters, 2015, 15, 2061-2066.	4.5	56
149	Giant Phononic Anisotropy and Unusual Anharmonicity of Phosphorene: Interlayer Coupling and Strain Engineering. Advanced Functional Materials, 2015, 25, 2230-2236.	7.8	198
150	Low-bias negative differential resistance effect in armchair graphene nanoribbon junctions. Applied Physics Letters, 2015, 106, .	1.5	15
151	Nanoscale Magnetization Reversal Caused by Electric Field-Induced Ion Migration and Redistribution in Cobalt Ferrite Thin Films. ACS Nano, 2015, 9, 4210-4218.	7.3	60
152	Achieving a high magnetization in sub-nanostructured magnetite films by spin-flipping of tetrahedral $\text{Fe}^{3+}$ cations. Nano Research, 2015, 8, 2935-2945.	5.8	21
153	Magnetism in phosphorene: Interplay between vacancy and strain. Applied Physics Letters, 2015, 107, .	1.5	46
154	Electron Transport at the $\text{TiO}_2$ Surfaces of Rutile, Anatase, and Strontium Titanate: The Influence of Orbital Corrugation. ACS Applied Materials & Interfaces, 2015, 7, 24616-24621.	4.0	39
155	Strain-induced spatially indirect exciton recombination in zinc-blende/wurtzite CdS heterostructures. Nano Research, 2015, 8, 3035-3044.	5.8	14
156	Quantum anomalous Hall effect and a nontrivial spin-texture in ultra-thin films of magnetic topological insulators. Journal of Applied Physics, 2015, 117, 17C741.	1.1	2
157	Optical conductivity renormalization of graphene on $\text{SrTiO}_3$ due to resonant excitonic effects mediated by Ti	1.1	20
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