

Ye-Xin Feng

List of Publications by Year in descending order

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68
papers

3,769
citations

201385

27
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128067

60
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all docs

68
docs citations

68
times ranked

6110
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-Soaking Induced Optical Tuning in Rare Earth-Doped All-Inorganic Perovskite. <i>Advanced Functional Materials</i> , 2022, 32, 2107086.	7.8	10
2	Predicted stable high-pressure phases of copper-nitrogen compounds. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 025401.	0.7	2
3	Nuclear Quantum Effects on the Charge-Density Wave Transition in NbX ₂ (X = S, Se). <i>Nano Letters</i> , 2022, 22, 1858-1865.	4.5	7
4	S vacancies in 2D SnS ₂ accelerating hydrogen evolution reaction. <i>Science China Materials</i> , 2022, 65, 1833-1841.	3.5	19
5	Nonequilibrium Green's function method for phonon heat transport in quantum system. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 223001.	0.7	2
6	Ultrafast charge transfer coupled to quantum proton motion at molecule/metal oxide interface. <i>Science Advances</i> , 2022, 8, .	4.7	21
7	A first-principles study of exciton self-trapping and electric polarization in one-dimensional organic lead halide perovskites. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 17323-17328.	1.3	9
8	High tunneling magnetoresistance induced by symmetry and quantum interference in magnetic molecular junctions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5876-5884.	2.7	14
9	Toward accurate electronic, optical, and vibrational properties of hexagonal Si, Ge, and Si _{1-x} Ge _x alloys from first-principle simulations. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	10
10	Discovery of temperature-induced stability reversal in perovskites using high-throughput robotic learning. <i>Nature Communications</i> , 2021, 12, 2191.	5.8	77
11	Effect of out-of-plane strain on the phonon structures and anharmonicity of twisted multilayer graphene. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	43
12	Tuning the Electrocatalytic Properties of Black and Gray Arsenene by Introducing Heteroatoms. <i>ACS Omega</i> , 2021, 6, 13124-13133.	1.6	7
13	Black phosphorus-based materials for energy storage and electrocatalytic applications. <i>JPhys Energy</i> , 2021, 3, 042002.	2.3	8
14	Toward a General Understanding of Exciton Self-Trapping in Metal Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10472-10478.	2.1	38
15	Dual-channel type tunable field-effect transistors based on vertical bilayer WS ₂ /Se ₂ /SnS ₂ heterostructures. <i>Informa</i> , 2020, 2, 752-760.	3.5	32
16	Template-Assisted Synthesis of Metallic 1Ta _{0.3} W _{0.7} S ₂ Nanosheets for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2020, 30, 1906069.	7.8	47
17	Twist Angle-Dependent Optical Responses in Controllably Grown WS ₂ Vertical Homo Junctions. <i>Chemistry of Materials</i> , 2020, 32, 9721-9729.	3.2	25
18	Seamlessly Splicing Metallic Sn _x Mo _{1-x} S ₂ at MoS ₂ Edge for Enhanced Photoelectrocatalytic Performance in Microreactor. <i>Advanced Science</i> , 2020, 7, 2002172.	5.6	30

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19	Switchable Spin Filters in Magnetic Molecular Junctions Based on Quantum Interference. <i>Advanced Electronic Materials</i> , 2020, 6, 2000689.	2.6	15
20	Design of Thermal Metamaterials with Excellent Thermal Control Functions by Using Functional Nanoporous Graphene. <i>Physica Status Solidi - Rapid Research Letters</i> , 2020, 14, 2000333.	1.2	7
21	Isotropic or anisotropic screening in black phosphorus: Can doping tip the balance?. <i>Frontiers of Physics</i> , 2020, 15, 1.	2.4	1
22	Broadband emission in all-inorganic metal halide perovskites with intrinsic vacancies. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13976-13981.	2.7	13
23	Catalytic Performance of Two-Dimensional Bismuth Tuned by Defect Engineering for Nitrogen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2020, 124, 19563-19570.	1.5	8
24	Engineering of Electronic States on Co_3O_4 Ultrathin Nanosheets by Cation Substitution and Anion Vacancies for Oxygen Evolution Reaction. <i>Small</i> , 2020, 16, e2001571.	5.2	98
25	Significantly enhanced thermoelectric performance of molecular junctions by the twist angle dependent phonon interference effect. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11884-11891.	5.2	34
26	Chemically modified phosphorene as efficient catalyst for hydrogen evolution reaction. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 025202.	0.7	13
27	Bimetallic and postsynthetically alloyed PtCu nanostructures with tunable reactivity for the methanol oxidation reaction. <i>Nanoscale Advances</i> , 2020, 2, 1603-1612.	2.2	10
28	Ab initio study of the miscibility for solid hydrogen-helium mixtures at high pressure. <i>Journal of Chemical Physics</i> , 2020, 152, 074701.	1.2	3
29	Excellent thermoelectric performance in weak-coupling molecular junctions with electrode doping and electrochemical gating. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020, 63, 1.	2.0	51
30	Growth of GaN on monolayer hexagonal boron nitride by chemical vapor deposition for ultraviolet photodetectors. <i>Semiconductor Science and Technology</i> , 2020, 35, 125025.	1.0	8
31	Phase diagram and stability of mixed-cation lead iodide perovskites: A theory and experiment combined study. <i>Physical Review Materials</i> , 2020, 4, .	0.9	17
32	Pure spin current generated in thermally driven molecular magnetic junctions: a promising mechanism for thermoelectric conversion. <i>Journal of Materials Chemistry A</i> , 2019, 7, 19037-19044.	5.2	92
33	Shape-Engineered Synthesis of Atomically Thin 1T-SnS_2 Catalyzed by Potassium Halides. <i>ACS Nano</i> , 2019, 13, 8265-8274.	7.3	51
34	Doping single transition metal atom into PtTe sheet for catalyzing nitrogen reduction and hydrogen evolution reactions. <i>Journal of Chemical Physics</i> , 2019, 151, 144710.	1.2	9
35	Ab initio study of pressure-driven phase transition in FePS_3 and FePSe_3 . <i>Physical Review B</i> , 2019, 100, .	1.1	42
36	Exploring high-performance anodes of Li-ion batteries based on the rules of pore-size dependent band gaps in porous carbon foams. <i>Journal of Materials Chemistry A</i> , 2019, 7, 21976-21984.	5.2	31

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37	Isotropic charge screening of anisotropic black phosphorus revealed by potassium adatoms. <i>Physical Review B</i> , 2019, 100, .	1.1	7
38	Evidence for Site-Specific Reversible Hydrogen Adsorption on Graphene by Sum-Frequency Generation Spectroscopy and Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2019, 123, 25883-25889.	1.5	6
39	Tuning the Catalytic Property of Phosphorene for Oxygen Evolution and Reduction Reactions by Changing Oxidation Degree. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3440-3446.	2.1	43
40	Role of defects on the catalytic property of 2D black arsenic for hydrogen evolution reaction. <i>Applied Physics Express</i> , 2019, 12, 075502.	1.1	7
41	Rational Kinetics Control toward Universal Growth of 2D Vertically Stacked Heterostructures. <i>Advanced Materials</i> , 2019, 31, e1901351.	11.1	79
42	Improving the phase stability of inorganic lead halide perovskites through K/Rb doping. <i>Applied Physics Express</i> , 2019, 12, 051017.	1.1	3
43	Synthesis and Transport Properties of Degenerate P-Type Nb-Doped WS ₂ Monolayers. <i>Chemistry of Materials</i> , 2019, 31, 3534-3541.	3.2	71
44	Bifunctional mechanism of N, P co-doped graphene for catalyzing oxygen reduction and evolution reactions. <i>Journal of Chemical Physics</i> , 2019, 150, 104701.	1.2	29
45	The quantum nature of hydrogen. <i>International Reviews in Physical Chemistry</i> , 2019, 38, 35-61.	0.9	18
46	Polar-Induced Selective Epitaxial Growth of Multijunction Nanoribbons for High-Performance Optoelectronics. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 15813-15820.	4.0	7
47	Synergy of tellurium and defects in control of activity of phosphorene for oxygen evolution and reduction reactions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 22939-22946.	1.3	16
48	The vertical growth of MoS ₂ layers at the initial stage of CVD from first-principles. <i>Journal of Chemical Physics</i> , 2018, 148, 134704.	1.2	18
49	General synthesis and definitive structural identification of MN ₄ C ₄ single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , 2018, 1, 63-72.	16.1	1,476
50	Lateral Heterostructures Formed by Thermally Converting n-Type SnSe ₂ to p-Type SnSe. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12831-12838.	4.0	37
51	Ferroelectric Problem beyond the Conventional Scaling Law. <i>Physical Review Letters</i> , 2018, 121, 135702.	2.9	10
52	Proton Migration in Hybrid Lead Iodide Perovskites: From Classical Hopping to Deep Quantum Tunneling. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 6536-6543.	2.1	15
53	<i>Ab initio</i> study of the moisture stability of lead iodine perovskites. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 355501.	0.7	10
54	The collective and quantum nature of proton transfer in the cyclic water tetramer on NaCl(001). <i>Journal of Chemical Physics</i> , 2018, 148, 102329.	1.2	10

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55	Hydrogen induced contrasting modes of initial nucleations of graphene on transition metal surfaces. <i>Journal of Chemical Physics</i> , 2017, 146, 034704.	1.2	4
56	Seeking the Dirac cones in the MoS ₂ /WSe ₂ van der Waals heterostructure. <i>Applied Physics Letters</i> , 2017, 111, 171602.	1.5	31
57	Strong interfacial interaction and enhanced optical absorption in graphene/InAs and MoS ₂ /InAs heterostructures. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9429-9438.	2.7	32
58	Hydrogenation Facilitates Proton Transfer through Two-Dimensional Honeycomb Crystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 6009-6014.	2.1	51
59	Van der Waals epitaxial growth and optoelectronics of large-scale WSe ₂ /SnS ₂ vertical bilayer p-n junctions. <i>Nature Communications</i> , 2017, 8, 1906.	5.8	369
60	Structural water as an essential comonomer in supramolecular polymerization. <i>Science Advances</i> , 2017, 3, eaao0900.	4.7	139
61	Inverse Temperature Dependence of Nuclear Quantum Effects in DNA Base Pairs. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2125-2131.	2.1	46
62	Nuclear quantum effects of hydrogen bonds probed by tip-enhanced inelastic electron tunneling. <i>Science</i> , 2016, 352, 321-325.	6.0	130
63	Direct Observation of Ordered Configurations of Hydrogen Adatoms on Graphene. <i>Nano Letters</i> , 2015, 15, 903-908.	4.5	65
64	Nuclear quantum effects on the high pressure melting of dense lithium. <i>Journal of Chemical Physics</i> , 2015, 142, 064506.	1.2	25
65	Microscopic origin for the orientation dependence of NV centers in chemical-vapor-deposited diamond. <i>Journal of Physics Condensed Matter</i> , 2014, 26, 485004.	0.7	3
66	The atomic structures of carbon nitride sheets for cathode oxygen reduction catalysis. <i>Journal of Chemical Physics</i> , 2013, 138, 164706.	1.2	19
67	Writing charge into the n-type LaAlO ₃ /SrTiO ₃ interface: A theoretical study of the H ₂ O kinetics on the top AlO ₂ surface. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	8
68	Tuning the catalytic property of nitrogen-doped graphene for cathode oxygen reduction reaction. <i>Physical Review B</i> , 2012, 85, .	1.1	81