

Ye-Xin Feng

List of Publications by Year in descending order

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68
papers

3,769
citations

201575

27
h-index

128225

60
g-index

68
all docs

68
docs citations

68
times ranked

6110
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Structural water as an essential comonomer in supramolecular polymerization. <i>Science Advances</i> , 2017, 3, eaao0900.	4.7	139
4	Nuclear quantum effects of hydrogen bonds probed by tip-enhanced inelastic electron tunneling. <i>Science</i> , 2016, 352, 321-325.	6.0	130
5	Engineering of Electronic States on Co ₃ O ₄ Ultrathin Nanosheets by Cation Substitution and Anion Vacancies for Oxygen Evolution Reaction. <i>Small</i> , 2020, 16, e2001571.	5.2	98
6	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
7	Tuning the catalytic property of nitrogen-doped graphene for cathode oxygen reduction reaction. <i>Physical Review B</i> , 2012, 85, .	1.1	81
8	Rational Kinetics Control toward Universal Growth of 2D Vertically Stacked Heterostructures. <i>Advanced Materials</i> , 2019, 31, e1901351.	11.1	79
9	Discovery of temperature-induced stability reversal in perovskites using high-throughput robotic learning. <i>Nature Communications</i> , 2021, 12, 2191.	5.8	77
10	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
11	Direct Observation of Ordered Configurations of Hydrogen Adatoms on Graphene. <i>Nano Letters</i> , 2015, 15, 903-908.	4.5	65
12	Hydrogenation Facilitates Proton Transfer through Two-Dimensional Honeycomb Crystals. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 6009-6014.	2.1	51
13	Shape-Engineered Synthesis of Atomically Thin 1T-SnS ₂ Catalyzed by Potassium Halides. <i>ACS Nano</i> , 2019, 13, 8265-8274.	7.3	51
14	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
15	Template-Assisted Synthesis of Metallic 1Tâ€²â€²Sn _{0.3} W _{0.7} S ₂ Nanosheets for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , 2020, 30, 1906069.	7.8	47
16	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
17	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
18	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

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19	Study of pressure-driven phase transition in FePS_3 and FePSe_3 . Physical Review B, 2019, 100, .	1.1	42
20	Toward a General Understanding of Exciton Self-Trapping in Metal Halide Perovskites. Journal of Physical Chemistry Letters, 2021, 12, 10472-10478.	2.1	38
21	Lateral Heterostructures Formed by Thermally Converting n-Type SnSe ₂ to p-Type SnSe. ACS Applied Materials & Interfaces, 2018, 10, 12831-12838.	4.0	37
22	Significantly enhanced thermoelectric performance of molecular junctions by the twist angle dependent phonon interference effect. Journal of Materials Chemistry A, 2020, 8, 11884-11891.	5.2	34
23	Strong interfacial interaction and enhanced optical absorption in graphene/InAs and MoS ₂ /InAs heterostructures. Journal of Materials Chemistry C, 2017, 5, 9429-9438.	2.7	32
24	Dual-channel type tunable field-effect transistors based on vertical bilayer WS ₂ /SnS ₂ heterostructures. Information Materials, 2020, 2, 752-760.	1.5	32
25	Seeking the Dirac cones in the MoS ₂ /WSe ₂ van der Waals heterostructure. Applied Physics Letters, 2017, 111, 171602.	1.5	31
26	Exploring high-performance anodes of Li-ion batteries based on the rules of pore-size dependent band gaps in porous carbon foams. Journal of Materials Chemistry A, 2019, 7, 21976-21984.	5.2	31
27	Seamlessly Splicing Metallic SnMo _{1-x} S ₂ at MoS ₂ Edge for Enhanced Photoelectrocatalytic Performance in Microreactor. Advanced Science, 2020, 7, 2002172.	5.6	30
28	Bifunctional mechanism of N, P co-doped graphene for catalyzing oxygen reduction and evolution reactions. Journal of Chemical Physics, 2019, 150, 104701.	1.2	29
29	Nuclear quantum effects on the high pressure melting of dense lithium. Journal of Chemical Physics, 2015, 142, 064506.	1.2	25
30	Twist Angle-Dependent Optical Responses in Controllably Grown WS ₂ Vertical Homojunctions. Chemistry of Materials, 2020, 32, 9721-9729.	3.2	25
31	Ultrafast charge transfer coupled to quantum proton motion at molecule/metal oxide interface. Science Advances, 2022, 8, .	4.7	21
32	The atomic structures of carbon nitride sheets for cathode oxygen reduction catalysis. Journal of Chemical Physics, 2013, 138, 164706.	1.2	19
33	S vacancies in 2D SnS ₂ accelerating hydrogen evolution reaction. Science China Materials, 2022, 65, 1833-1841.	3.5	19
34	The vertical growth of MoS ₂ layers at the initial stage of CVD from first-principles. Journal of Chemical Physics, 2018, 148, 134704.	1.2	18
35	The quantum nature of hydrogen. International Reviews in Physical Chemistry, 2019, 38, 35-61.	0.9	18
36	Phase diagram and stability of mixed-cation lead iodide perovskites: A theory and experiment combined study. Physical Review Materials, 2020, 4, .	0.9	17

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37	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
38	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
39	Switchable Spin Filters in Magnetic Molecular Junctions Based on Quantum Interference. <i>Advanced Electronic Materials</i> , 2020, 6, 2000689.	2.6	15
40	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
41	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
42	Chemically modified phosphorene as efficient catalyst for hydrogen evolution reaction. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 025202.	0.7	13
43	Ferroelectric Problem beyond the Conventional Scaling Law. <i>Physical Review Letters</i> , 2018, 121, 135702.	2.9	10
44	<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
45	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
46	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
47	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
48	Light-Soaking Induced Optical Tuning in Rare Earth-Doped All-Inorganic Perovskite. <i>Advanced Functional Materials</i> , 2022, 32, 2107086.	7.8	10
49	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
50	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
51	Writing charge into the <i>n</i> -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
52	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
53	Black phosphorus-based materials for energy storage and electrocatalytic applications. <i>JPhys Energy</i> , 2021, 3, 042002.	2.3	8
54	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

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55	Isotropic charge screening of anisotropic black phosphorus revealed by potassium adatoms. <i>Physical Review B</i> , 2019, 100, .	1.1	7
56	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
57	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
58	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
59	Tuning the Electrocatalytic Properties of Black and Gray Arsenene by Introducing Heteroatoms. <i>ACS Omega</i> , 2021, 6, 13124-13133.	1.6	7
60	Nuclear Quantum Effects on the Charge-Density Wave Transition in NbX_2 ($X = \text{S, Se}$). <i>Nano Letters</i> , 2022, 22, 1858-1865.	4.5	7
61	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
62	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
63	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
64	Improving the phase stability of inorganic lead halide perovskites through K/Rb doping. <i>Applied Physics Express</i> , 2019, 12, 051017.	1.1	3
65	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
66	Predicted stable high-pressure phases of copper-nitrogen compounds. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 025401.	0.7	2
67	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
68	Isotropic or anisotropic screening in black phosphorous: Can doping tip the balance?. <i>Frontiers of Physics</i> , 2020, 15, 1.	2.4	1