

# Ye-Xin Feng

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

63

papers

2,406

citations

21

h-index

48

g-index

68

ext. papers

3,084

ext. citations

7.9

avg, IF

5

L-index

#	Paper	IF	Citations
63	Toward a General Understanding of Exciton Self-Trapping in Metal Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , <b>2021</b> , 12, 10472-10478	6.4	8
62	Toward accurate electronic, optical, and vibrational properties of hexagonal Si, Ge, and Si <sub>1-x</sub> Ge <sub>x</sub> alloys from first-principle simulations. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 145701	2.5	3
61	Discovery of temperature-induced stability reversal in perovskites using high-throughput robotic learning. <i>Nature Communications</i> , <b>2021</b> , 12, 2191	17.4	26
60	Effect of out-of-plane strain on the phonon structures and anharmonicity of twisted multilayer graphene. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 183103	3.4	20
59	Tuning the Electrocatalytic Properties of Black and Gray Arsenene by Introducing Heteroatoms. <i>ACS Omega</i> , <b>2021</b> , 6, 13124-13133	3.9	3
58	High tunneling magnetoresistance induced by symmetry and quantum interference in magnetic molecular junctions. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 5876-5884	7.1	4
57	Black phosphorus-based materials for energy storage and electrocatalytic applications. <i>JPhys Energy</i> , <b>2021</b> , 3, 042002	4.9	1
56	Engineering of Electronic States on Co O Ultrathin Nanosheets by Cation Substitution and Anion Vacancies for Oxygen Evolution Reaction. <i>Small</i> , <b>2020</b> , 16, e2001571	11	49
55	Significantly enhanced thermoelectric performance of molecular junctions by the twist angle dependent phonon interference effect. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11884-11891	13	21
54	Chemically modified phosphorene as efficient catalyst for hydrogen evolution reaction. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 025202	1.8	8
53	Bimetallic and postsynthetically alloyed PtCu nanostructures with tunable reactivity for the methanol oxidation reaction. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 1603-1612	5.1	4
52	Ab initio study of the miscibility for solid hydrogen-helium mixtures at high pressure. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 074701	3.9	0
51	Excellent thermoelectric performance in weak-coupling molecular junctions with electrode doping and electrochemical gating. <i>Science China: Physics, Mechanics and Astronomy</i> , <b>2020</b> , 63, 1	3.6	28
50	Phase diagram and stability of mixed-cation lead iodide perovskites: A theory and experiment combined study. <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	6
49	Growth of GaN on monolayer hexagonal boron nitride by chemical vapor deposition for ultraviolet photodetectors. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 35, 125025	1.8	5
48	Dual-channel type tunable field-effect transistors based on vertical bilayer WS <sub>2</sub> (1-x)Se <sub>2x</sub> /SnS <sub>2</sub> heterostructures. <i>Informa Materly</i> , <b>2020</b> , 2, 752-760	23.1	17
47	Template-Assisted Synthesis of Metallic 1T'-Sn <sub>0.3</sub> W <sub>0.7</sub> S <sub>2</sub> Nanosheets for Hydrogen Evolution Reaction. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1906069	15.6	31

46	Twist Angle-Dependent Optical Responses in Controllably Grown WS <sub>2</sub> Vertical Homojunctions. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 9721-9729	9.6	8
45	Seamlessly Splicing Metallic Sn Mo S at MoS Edge for Enhanced Photoelectrocatalytic Performance in Microreactor. <i>Advanced Science</i> , <b>2020</b> , 7, 2002172	13.6	14
44	Switchable Spin Filters in Magnetic Molecular Junctions Based on Quantum Interference. <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000689	6.4	9
43	Design of Thermal Metamaterials with Excellent Thermal Control Functions by Using Functional Nanoporous Graphene. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2020</b> , 14, 2000333	2.5	3
42	Isotropic or anisotropic screening in black phosphorous: Can doping tip the balance?. <i>Frontiers of Physics</i> , <b>2020</b> , 15, 1	3.7	0
41	Broadband emission in all-inorganic metal halide perovskites with intrinsic vacancies. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 13976-13981	7.1	6
40	Catalytic Performance of Two-Dimensional Bismuth Tuned by Defect Engineering for Nitrogen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 19563-19570	3.8	5
39	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> , <b>2019</b> , 7, 21976-21984	13	24
38	Isotropic charge screening of anisotropic black phosphorus revealed by potassium adatoms. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	3
37	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> , <b>2019</b> , 123, 25883-25889	3.8	4
36	Tuning the Catalytic Property of Phosphorene for Oxygen Evolution and Reduction Reactions by Changing Oxidation Degree. <i>Journal of Physical Chemistry Letters</i> , <b>2019</b> , 10, 3440-3446	6.4	30
35	Role of defects on the catalytic property of 2D black arsenic for hydrogen evolution reaction. <i>Applied Physics Express</i> , <b>2019</b> , 12, 075502	2.4	6
34	Rational Kinetics Control toward Universal Growth of 2D Vertically Stacked Heterostructures. <i>Advanced Materials</i> , <b>2019</b> , 31, e1901351	24	53
33	Improving the phase stability of inorganic lead halide perovskites through K/Rb doping. <i>Applied Physics Express</i> , <b>2019</b> , 12, 051017	2.4	3
32	Synthesis and Transport Properties of Degenerate P-Type Nb-Doped WS <sub>2</sub> Monolayers. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 3534-3541	9.6	45
31	Bifunctional mechanism of N, P co-doped graphene for catalyzing oxygen reduction and evolution reactions. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 104701	3.9	19
30	The quantum nature of hydrogen. <i>International Reviews in Physical Chemistry</i> , <b>2019</b> , 38, 35-61	7	11
29	Polar-Induced Selective Epitaxial Growth of Multijunction Nanoribbons for High-Performance Optoelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 15813-15820	9.5	5

28	Pure spin current generated in thermally driven molecular magnetic junctions: a promising mechanism for thermoelectric conversion. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 19037-19044	13	66
27	Shape-Engineered Synthesis of Atomically Thin 1T-SnS Catalyzed by Potassium Halides. <i>ACS Nano</i> , <b>2019</b> , 13, 8265-8274	16.7	26
26	Doping single transition metal atom into PtTe sheet for catalyzing nitrogen reduction and hydrogen evolution reactions. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 144710	3.9	7
25	Ab initio study of pressure-driven phase transition in FePS <sub>3</sub> and FePSe <sub>3</sub> . <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	16
24	Synergy of tellurium and defects in control of activity of phosphorene for oxygen evolution and reduction reactions. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 22939-22946	3.6	10
23	The vertical growth of MoS layers at the initial stage of CVD from first-principles. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 134704	3.9	16
22	General synthesis and definitive structural identification of MN <sub>4</sub> C <sub>4</sub> single-atom catalysts with tunable electrocatalytic activities. <i>Nature Catalysis</i> , <b>2018</b> , 1, 63-72	36.5	968
21	Lateral Heterostructures Formed by Thermally Converting n-Type SnSe to p-Type SnSe. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 12831-12838	9.5	30
20	Ab initio study of the moisture stability of lead iodine perovskites. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 355501	1.8	7
19	The collective and quantum nature of proton transfer in the cyclic water tetramer on NaCl(001). <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 102329	3.9	7
18	Ferroelectric Problem beyond the Conventional Scaling Law. <i>Physical Review Letters</i> , <b>2018</b> , 121, 135702	7.4	8
17	Proton Migration in Hybrid Lead Iodide Perovskites: From Classical Hopping to Deep Quantum Tunneling. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 6536-6543	6.4	10
16	Hydrogen induced contrasting modes of initial nucleations of graphene on transition metal surfaces. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 034704	3.9	3
15	Seeking the Dirac cones in the MoS <sub>2</sub> /WSe <sub>2</sub> van der Waals heterostructure. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 171602	3.4	27
14	Strong interfacial interaction and enhanced optical absorption in graphene/InAs and MoS <sub>2</sub> /InAs heterostructures. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 9429-9438	7.1	29
13	Hydrogenation Facilitates Proton Transfer through Two-Dimensional Honeycomb Crystals. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 6009-6014	6.4	31
12	Van der Waals epitaxial growth and optoelectronics of large-scale WSe/SnS vertical bilayer p-n junctions. <i>Nature Communications</i> , <b>2017</b> , 8, 1906	17.4	258
11	Structural water as an essential comonomer in supramolecular polymerization. <i>Science Advances</i> , <b>2017</b> , 3, eaao0900	14.3	97

10	Inverse Temperature Dependence of Nuclear Quantum Effects in DNA Base Pairs. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 2125-31	6.4	34
9	Nuclear quantum effects of hydrogen bonds probed by tip-enhanced inelastic electron tunneling. <i>Science</i> , <b>2016</b> , 352, 321-5	33.3	95
8	Nuclear quantum effects on the high pressure melting of dense lithium. <i>Journal of Chemical Physics</i> , <b>2015</b> , 142, 064506	3.9	20
7	Direct observation of ordered configurations of hydrogen adatoms on graphene. <i>Nano Letters</i> , <b>2015</b> , 15, 903-8	11.5	59
6	Microscopic origin for the orientation dependence of NV centers in chemical-vapor-deposited diamond. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 485004	1.8	3
5	The atomic structures of carbon nitride sheets for cathode oxygen reduction catalysis. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 164706	3.9	13
4	Writing charge into the n-type LaAlO <sub>3</sub> /SrTiO <sub>3</sub> interface: A theoretical study of the H <sub>2</sub> O kinetics on the top AlO <sub>2</sub> surface. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 251605	3.4	7
3	Tuning the catalytic property of nitrogen-doped graphene for cathode oxygen reduction reaction. <i>Physical Review B</i> , <b>2012</b> , 85,	3.3	69
2	Light-Soaking Induced Optical Tuning in Rare Earth-Doped All-Inorganic Perovskite. <i>Advanced Functional Materials</i> , 2107086	15.6	2
1	S vacancies in 2D SnS <sub>2</sub> accelerating hydrogen evolution reaction. <i>Science China Materials</i> , 1	7.1	3