Xiao-Li Fan

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74	1,597	20	38
papers	citations	h-index	g-index
76	2,026 ext. citations	5.7	5.04
ext. papers		avg, IF	L-index

#	Paper	IF	Citations
74	Uncovering the Veil of the Degradation in Perovskite CH3NH3PbI3 upon Humidity Exposure: A First-Principles Study. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 3289-3295	6.4	147
73	Site-specific catalytic activity in exfoliated MoS2 single-layer polytypes for hydrogen evolution: basal plane and edges. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 20545-20551	13	127
72	Ferroelectric-Enhanced Polysulfide Trapping for Lithium-Sulfur Battery Improvement. <i>Advanced Materials</i> , 2017 , 29, 1604724	24	124
71	Laminated Hybrid Junction of Sulfur-Doped TiO and a Carbon Substrate Derived from TiC MXenes: Toward Highly Visible Light-Driven Photocatalytic Hydrogen Evolution. <i>Advanced Science</i> , 2018 , 5, 1700	1870 ⁶	108
70	MXene Nanofibers as Highly Active Catalysts for Hydrogen Evolution Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 8976-8982	8.3	103
69	Ferromagnetism in Transitional Metal-Doped MoS2 Monolayer. <i>Nanoscale Research Letters</i> , 2016 , 11, 154	5	75
68	Nanopolygons of Monolayer MS: Best Morphology and Size for HER Catalysis. <i>Nano Letters</i> , 2017 , 17, 368-376	11.5	71
67	Catalytic Activity of MS2 Monolayer for Electrochemical Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1623-1632	3.8	67
66	Composition Directed Generation of Reactive Oxygen Species in Irradiated Mixed Metal Sulfides Correlated with Their Photocatalytic Activities. <i>ACS Applied Materials & Discourse (Materials & Discourse)</i> , 7, 16440-5	9.5	52
65	Point defect structure of La-doped SrTiO3 ceramics with colossal permittivity. <i>Acta Materialia</i> , 2019 , 164, 76-89	8.4	43
64	A first-principles study of Sc-decorated graphene with pyridinic-N defects for hydrogen storage. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 3106-3113	6.7	34
63	Ultrathin polymer film formation by collision-induced cross-linking of adsorbed organic molecules with hyperthermal protons. <i>Journal of the American Chemical Society</i> , 2004 , 126, 12336-42	16.4	34
62	First principles study of structural and electronic properties of cubic phase of ZrO2 and HfO2. <i>Physica B: Condensed Matter</i> , 2014 , 434, 7-13	2.8	33
61	Band gap engineering of FeS2 under biaxial strain: a first principles study. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24466-72	3.6	31
60	Strain engineering the magnetic states of vacancy-doped monolayer MoSe 2. <i>Journal of Alloys and Compounds</i> , 2015 , 635, 307-313	5.7	29
59	Single Atoms on a Nitrogen-Doped Boron Phosphide Monolayer: A New Promising Bifunctional Electrocatalyst for ORR and OER. <i>ACS Applied Materials & Amp; Interfaces</i> , 2020 , 12, 52549-52559	9.5	28
58	3d transitional-metal single atom catalysis toward hydrogen evolution reaction on MXenes supports. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 14396-14406	6.7	26

(2020-2016)

57	Effect of strain on the magnetic states of transition-metal atoms doped monolayer WS2. <i>Computational Materials Science</i> , 2016 , 117, 354-360	3.2	23	
56	First-principles study on armchair AlN nanoribbons with different edge terminations. <i>Superlattices and Microstructures</i> , 2014 , 67, 40-46	2.8	22	
55	Sc2CO2 and Mn-doped Sc2CO2 as gas sensor materials to NO and CO: A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 111, 84-90	3	21	
54	Enhanced gas-sensing performance of graphene by doping transition metal atoms: A first-principles study. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 2965-2973	2.3	20	
53	Room-temperature preparation of trisilver-copper-sulfide/polymer based heterojunction thin film for solar cell application. <i>Journal of Power Sources</i> , 2015 , 280, 313-319	8.9	20	
52	Electronic and Magnetic Properties of Defected Monolayer WSe with Vacancies. <i>Nanoscale Research Letters</i> , 2019 , 14, 192	5	19	
51	Role of intrinsic dipole on photocatalytic water splitting for Janus MoSSe/nitrides heterostructure: A first-principles study. <i>Progress in Natural Science: Materials International</i> , 2019 , 29, 335-340	3.6	19	
50	Increasing the band gap of FeS2 by alloying with Zn and applying biaxial strain: A first-principles study. <i>Journal of Alloys and Compounds</i> , 2015 , 629, 43-48	5.7	18	
49	First-principles investigations of transition-metal doped bilayer WSII Physical Chemistry Chemical Physics, 2016 , 18, 10152-7	3.6	17	
48	Tuning the electronic properties of half- and full-hydrogenated germanene by chlorination and hydroxylation: A first-principles study. <i>Computational Materials Science</i> , 2014 , 92, 244-252	3.2	17	
47	Calcium decorated two dimensional carbon allotropes for hydrogen storage: A first-principles study. <i>Computational Materials Science</i> , 2016 , 124, 106-113	3.2	15	
46	Cu Anchored Ti2NO2 as High Performance Electrocatalyst for Oxygen Evolution Reaction: A Density Functional Theory Study. <i>ChemCatChem</i> , 2020 , 12, 4059-4066	5.2	14	
45	Edges of graphene and carbon nanotubes with high catalytic performance for the oxygen reduction reaction. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 21003-21011	3.6	14	
44	Improved catalytic performance of monolayer nano-triangles WS2 and MoS2 on HER by 3d metals doping. <i>Computational Materials Science</i> , 2019 , 159, 333-340	3.2	14	
43	Asymmetric MXene/monolayer transition metal dichalcogenide heterostructures for functional applications. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	13	
42	From Nondissociative to Dissociative Adsorption of Benzene-thiol on Au(111): A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 1002-1011	3.8	13	
41	High Curie temperature and carrier mobility of novel Fe, Co and Ni carbide MXenes. <i>Nanoscale</i> , 2020 , 12, 11627-11637	7.7	12	
40	Two-dimensional intrinsic ferromagnetic half-metals: monolayers Mn3X4 (X = Te, Se, S). <i>Journal of Materials Science</i> , 2020 , 55, 7680-7690	4.3	12	

39	First-Principles Study on the Stability and STM Image of Borophene. <i>Nanoscale Research Letters</i> , 2017 , 12, 514	5	11
38	Hybrid Polymer Membrane Functionalized PBO Fibers/Cyanate Esters Wave-Transparent Laminated Composites. <i>Advanced Fiber Materials</i> ,1	10.9	10
37	Ordered double-M elements MXenes TiMC: Large in-plane stiffness and ferromagnetism. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 486, 165280	2.8	9
36	Computing pKa Values with a Mixing Hamiltonian Quantum Mechanical/Molecular Mechanical Approach. <i>Journal of Chemical Theory and Computation</i> , 2013 , 9, 4257-65	6.4	9
35	Cleaving CH bonds with hyperthermal H2: facile chemistry to cross-link organic molecules under low chemical- and energy-loads. <i>Green Chemistry</i> , 2014 , 16, 1316-1325	10	8
34	Exploring the catalytic activity of MXenes Mn+1CnO2 for hydrogen evolution. <i>Journal of Materials Science</i> , 2019 , 54, 11378-11389	4.3	7
33	Density functional theory study of the adsorption of methanthiol on Au(111): Role of gold adatoms. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2014 , 59, 248-253	3	7
32	Structural and electronic properties of conducting Cu nanowire encapsulated in semiconducting zigzag carbon nanotubes: A first-principles study. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 10)3 3 :3103	38 ⁷
31	First-principles investigation on the interface of transition metal dichalcogenide MX2 (M = Mo, W; X = S, Se) monolayer on Al2O3(0 0 0 1). <i>Computational Materials Science</i> , 2016 , 122, 118-125	3.2	7
30	Numerical simulation of lubrication performance on chevron textured surface under hydrodynamic lubrication. <i>Tribology International</i> , 2021 , 154, 106704	4.9	7
29	Electronic and magnetic properties of group-V TMDs monolayers with defects: A first-principles study. <i>Computational Materials Science</i> , 2020 , 176, 109540	3.2	6
28	Two-dimensional stable Fe-based ferromagnetic semiconductors: FeI and FeICl monolayers. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 24506-24515	3.6	6
27	Pmma-XO (X´=´C, Si, Ge) monolayer as promising anchoring materials for lithium-sulfur battery: a first-principles study. <i>Nanotechnology</i> , 2019 , 30, 085405	3.4	6
26	Improving the comprehensive properties of PBO fibres/cyanate ester composites using a hyperbranched fluorine and epoxy containing PBO precursor. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021 , 150, 106596	8.4	6
25	A first-principles study on the electronic and magnetic properties of armchair SiC/AlN nanoribbons. <i>Journal of Alloys and Compounds</i> , 2014 , 586, 176-179	5.7	5
24	Dimethyl Disulfide on Cu(111): From Nondissociative to Dissociative Adsorption. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 6587-6593	3.8	5
23	Ferromagnetic half-metal with high Curie temperature: Janus Mn2PAs monolayer. <i>Journal of Materials Science</i> , 2021 , 56, 13215-13226	4.3	5
22	First-principles study the single-layer transition metal trihalide CrXSe (X = Sn, Ge, Si) as monolayer ferromagnetic semiconductor. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 085801	1.8	4

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21	First-Principles Study on the Electronic and Magnetic Properties of Zigzag AlN-SiC Nanoribbons. Journal of Superconductivity and Novel Magnetism, 2014 , 27, 1079-1082	1.5	4
20	Effects of Intrinsic Surface Defects on Thiophenol Self-Assembly on Au(111): Surface Structures and Reaction Mechanisms. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 19909-19917	3.8	4
19	Density Functional Theory Studies on the Adsorption of Methanethiol Molecule on Au(111) Surface at Different Coverage. <i>Acta Chimica Sinica</i> , 2013 , 71, 829	3.3	4
18	Magnetic semiconducting and strain-induced semiconducting the tallic transition in Cu-doped single-layer WSe2. <i>Journal of Materials Science</i> , 2019 , 54, 529-539	4.3	4
17	Revealing the Potential Crystal Structures of Earth-Abundant Nontoxic Photovoltaic CuBil4. <i>Crystal Growth and Design</i> , 2021 , 21, 2850-2855	3.5	3
16	Room-temperature ferromagnetism in alkaline-earth-metal doped AlP: First-principle calculations. <i>Computational Materials Science</i> , 2018 , 142, 338-345	3.2	3
15	Significantly improved interfacial properties and wave-transparent performance of PBO fibers/cyanate esters laminated composites via introducing a polydopamine/ZIF-8 hybrid membrane. <i>Composites Science and Technology</i> , 2022 , 223, 109426	8.6	3
14	Self-assembled monolayers of CH3S from the adsorption of CH3SSCH3 on Au(111). <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2533-41	3.6	2
13	Single transition metal atom anchored on VSe2 as electrocatalyst for nitrogen reduction reaction. <i>Applied Surface Science</i> , 2022 , 580, 152272	6.7	2
12	Stabilization and Metallic to Semiconducting Transition in 2D Boron Sheet. <i>Engineered Science</i> , 2018	3.8	2
11	DID Code: A Bridge Connecting the Materials Genome Engineering Database with Inheritable Integrated Intelligent Manufacturing. <i>Engineering</i> , 2020 , 6, 612-620	9.7	1
10	DENSITY FUNCTIONAL THEORY STUDIES ON THE ADSORPTION OF 4-METHYLBENZENETHIOL AND 4-ETHYLBENZENETHIOL MOLECULES ON Au(111) SURFACE. Surface Review and Letters, 2014 , 21, 14500	o 187	1
9	Tunable magnetic order in two-dimensional layered GdGe2. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 1259-1269	7.1	1
8	Calcia-doped ceria hybrid coating functionalized PBO fibers with excellent UV resistance and improved interfacial compatibility with cyanate ester resins. <i>Applied Surface Science</i> , 2021 , 569, 151124	6.7	1
7	Lattice distortion-enhanced superlubricity of (Mo, X)S (X = Al, Ti, Cr and V) with moir uperlattice. <i>Nanoscale</i> , 2021 , 13, 16234-16243	7.7	1
6	Response to comment on point defect structure of La-doped SrTiO3 ceramics with colossal permittivity [IScripta Materialia, 2021, 190, 118-120]	5.6	Ο
5	Robust Superlubricity and Moir[Lattice's Size Dependence on Friction between Graphdiyne Layers. <i>ACS Applied Materials & Dependence on Friction Detween Graphdiyne Layers.</i> 13, 40901-40908	9.5	O
4	High-temperature ferromagnetism in monolayers MnGaX3 (X´=´Te, Se). <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 534, 168041	2.8	0

3	3-Fold-Periodic Size-Dependence in Electronic Properties of Monolayer-TMDC Nanotriangles. Journal of Physical Chemistry Letters, 2018 , 9, 1346-1352	6.4
2	Effects of intrinsic defects on methanthiol monolayers on Cu(111): a density functional theory study. <i>Journal of Chemical Physics</i> , 2013 , 138, 134708	3.9
1	Virtual voids method to generate low-density microporous carbon structures using quenched molecular dynamics simulation. <i>Carbon</i> , 2021 , 183, 438-448	10.4

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