

Jun Fan

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.

79
papers

3,423
citations

31
h-index

58
g-index

88
ext. papers

4,693
ext. citations

10.9
avg, IF

5.79
L-index

#	Paper	IF	Citations
79	Nitrogen-induced interfacial electronic structure of NiS ₂ /CoS ₂ with optimized water and hydrogen binding abilities for efficient alkaline hydrogen evolution electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2022 , 10, 719-725	13	6
78	Few-layer bismuth selenide cathode for low-temperature quasi-solid-state aqueous zinc metal batteries.. <i>Nature Communications</i> , 2022 , 13, 752	17.4	2
77	Molecular insights into geometric and electrophoretic effects on DNA translocation speed through graphene nanoslit sensor. <i>Carbon</i> , 2022 , 191, 415-423	10.4	0
76	Strain adjustment Pt-doped Ti ₂ CO ₂ as an efficient bifunctional catalyst for oxygen reduction reactions and oxygen evolution reactions by first-principles calculations. <i>Applied Surface Science</i> , 2022 , 590, 153149	6.7	1
75	Mechanistic Study of Interfacial Modification for Stable Zn Anode Based on a Thin Separator.. <i>Small</i> , 2022 , e2201045	11	3
74	Bis-ammonium salts with strong chemisorption to halide ions for fast and durable aqueous redox Zn ion batteries. <i>Nano Energy</i> , 2022 , 98, 107278	17.1	0
73	First-principles screening of Pt doped Ti ₂ CNL (N = O, S and Se, L = F, Cl, Br and I) as high-performance catalysts for ORR/OER. <i>Applied Surface Science</i> , 2022 , 596, 153574	6.7	1
72	Exploring the potential of Ti ₂ BT ₂ (T = F, Cl, Br, I, O, S, Se and Te) monolayers as anode materials for lithium and sodium ion batteries. <i>Applied Surface Science</i> , 2022 , 153619	6.7	1
71	Small-Dipole-Molecule-Containing Electrolytes for High-Voltage Aqueous Rechargeable Batteries. <i>Advanced Materials</i> , 2021 , e2106180	24	14
70	M-Site Vacancy-Mediated Adsorption and Diffusion of Sodium on Ti ₂ CO ₂ MXene. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 82-90	3.8	2
69	Manipulating anion intercalation enables a high-voltage aqueous dual ion battery. <i>Nature Communications</i> , 2021 , 12, 3106	17.4	25
68	Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie</i> , 2021 , 133, 1024-1034	3.6	11
67	Effects of Anion Carriers on Capacitance and Self-Discharge Behaviors of Zinc Ion Capacitors. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1011-1021	16.4	70
66	Molecular mechanisms underlying the role of the puckered surface in the biocompatibility of black phosphorus. <i>Nanoscale</i> , 2021 , 13, 3790-3799	7.7	5
65	Confining Aqueous Zn-Br Halide Redox Chemistry by TiCT MXene. <i>ACS Nano</i> , 2021 , 15, 1718-1726	16.7	28
64	Simultaneous Sensing of Force and Current Signals to Recognize Proteinogenic Amino Acids at a Single-Molecule Level. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 793-799	6.4	3
63	Computational insights into modulating the performance of MXene based electrode materials for rechargeable batteries. <i>Nanotechnology</i> , 2021 ,	3.4	8

62	Theoretical investigation of the intercalation mechanism of VS ₂ /MXene heterostructures as anode materials for metal-ion batteries. <i>Applied Surface Science</i> , 2021 , 543, 148772	6.7	13
61	Molecular Crowding Effect in Aqueous Electrolytes to Suppress Hydrogen Reduction Reaction and Enhance Electrochemical Nitrogen Reduction. <i>Advanced Energy Materials</i> , 2021 , 11, 2101699	21.8	16
60	Zinc/selenium conversion battery: a system highly compatible with both organic and aqueous electrolytes. <i>Energy and Environmental Science</i> , 2021 , 14, 2441-2450	35.4	35
59	Enhanced Redox Kinetics and Duration of Aqueous I ⁻ /I ⁰ Conversion Chemistry by MXene Confinement. <i>Advanced Materials</i> , 2021 , 33, e2006897	24	39
58	Prediction of chemically ordered dual transition metal carbides (MXenes) as high-capacity anode materials for Na-ion batteries. <i>Nanoscale</i> , 2021 , 13, 7234-7243	7.7	5
57	Electrochemical Nitrate Production Nitrogen Oxidation with Atomically Dispersed Fe on N-Doped Carbon Nanosheets.. <i>ACS Nano</i> , 2021 ,	16.7	3
56	Hydrogen-Substituted Graphdiyne Ion Tunnels Directing Concentration Redistribution for Commercial-Grade Dendrite-Free Zinc Anodes. <i>Advanced Materials</i> , 2020 , 32, e2001755	24	136
55	Highly Efficient Electrochemical Reduction of Nitrogen to Ammonia on Surface Termination Modified TiCT MXene Nanosheets. <i>ACS Nano</i> , 2020 , 14, 9089-9097	16.7	71
54	Theoretical Investigation of the StructureProperty Correlation of MXenes as Anode Materials for Alkali Metal Ion Batteries. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 14978-14986	3.8	9
53	Hydrogen-Free and Dendrite-Free All-Solid-State Zn-Ion Batteries. <i>Advanced Materials</i> , 2020 , 32, e1908121	21	186
52	Toward efficient and high rate sodium-ion storage: A new insight from dopant-defect interplay in textured carbon anode materials. <i>Energy Storage Materials</i> , 2020 , 28, 55-63	19.4	41
51	Computational investigation of geometrical effects in 2D boron nitride nanopores for DNA detection. <i>Nanoscale</i> , 2020 , 12, 10026-10034	7.7	11
50	Strain-tunable electronic properties and lithium storage of 2D transition metal carbide (MXene) Ti ₂ CO ₂ as a flexible electrode. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 760-769	13	15
49	Scalable synthesis of 2D hydrogen-substituted graphdiyne on Zn substrate for high-yield N ₂ fixation. <i>Nano Energy</i> , 2020 , 78, 105283	17.1	21
48	Membrane Perturbation and Lipid Flip-Flop Mediated by Graphene Nanosheet. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 10632-10640	3.4	2
47	Molecular mechanism of mitochondrial phosphatidate transfer by Ups1. <i>Communications Biology</i> , 2020 , 3, 468	6.7	1
46	Aqueous Zinc-Tellurium Batteries with Ultraflat Discharge Plateau and High Volumetric Capacity. <i>Advanced Materials</i> , 2020 , 32, e2001469	24	45
45	A flexible rechargeable aqueous zinc manganese-dioxide battery working at 20 °C. <i>Energy and Environmental Science</i> , 2019 , 12, 706-715	35.4	333

44	Nanotoxicity of Boron Nitride Nanosheet to Bacterial Membranes. <i>Langmuir</i> , 2019 , 35, 6179-6187	4	24
43	Lattice constant-dependent anchoring effect of MXenes for lithium-sulfur (Li-S) batteries: a DFT study. <i>Nanoscale</i> , 2019 , 11, 8485-8493	7.7	52
42	Molecular Modeling: Modeling Interactions between Liposomes and Hydrophobic Nanosheets (Small 6/2019). <i>Small</i> , 2019 , 15, 1970034	11	
41	ACAP1 assembles into an unusual protein lattice for membrane deformation through multiple stages. <i>PLoS Computational Biology</i> , 2019 , 15, e1007081	5	1
40	The late stage of COPI vesicle fission requires shorter forms of phosphatidic acid and diacylglycerol. <i>Nature Communications</i> , 2019 , 10, 3409	17.4	5
39	Achieving Both High Voltage and High Capacity in Aqueous Zinc-Ion Battery for Record High Energy Density. <i>Advanced Functional Materials</i> , 2019 , 29, 1906142	15.6	184
38	Do Zinc Dendrites Exist in Neutral Zinc Batteries: A Developed Electrohealing Strategy to In Situ Rescue In-Service Batteries. <i>Advanced Materials</i> , 2019 , 31, e1903778	24	285
37	Modeling Interactions between Liposomes and Hydrophobic Nanosheets. <i>Small</i> , 2019 , 15, e1804992	11	13
36	Temperature-Dependent Lipid Extraction from Membranes by Boron Nitride Nanosheets. <i>ACS Nano</i> , 2018 , 12, 2764-2772	16.7	32
35	Charge driven lateral structural evolution of ions in electric double layer capacitors strongly correlates with differential capacitance. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 8054-8063	3.6	13
34	The S-functionalized TiC Mxene as a high capacity electrode material for Na-ion batteries: a DFT study. <i>Nanoscale</i> , 2018 , 10, 3385-3392	7.7	89
33	Lipid extraction by boron nitride nanosheets from liquid-ordered and liquid-disordered nanodomains. <i>Nanoscale</i> , 2018 , 10, 14073-14081	7.7	4
32	Theoretical investigation of zirconium carbide MXenes as prospective high capacity anode materials for Na-ion batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 13652-13660	13	56
31	Ordering of lipid membranes altered by boron nitride nanosheets. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 3903-3910	3.6	16
30	Molecular Consequences of the Myopathy-Related D286G Mutation on Actin Function. <i>Frontiers in Physiology</i> , 2018 , 9, 1756	4.6	3
29	Alkyl Tail Aggregations Break Long-Range Ordering of Ionic Liquids Confined in Subnanometer Pores. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27314-27322	3.8	2
28	Self-healable electroluminescent devices. <i>Light: Science and Applications</i> , 2018 , 7, 102	16.7	52
27	Solid-State Rechargeable Zn//NiCo and Zn//Air Batteries with Ultralong Lifetime and High Capacity: The Role of a Sodium Polyacrylate Hydrogel Electrolyte. <i>Advanced Energy Materials</i> , 2018 , 8, 1802288	21.8	146

26	Molecular Details of the PH Domain of ACAP1 Protein Binding to PIP-Containing Membrane. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 3586-3596	3.4	11
25	Theoretical prediction of MXene-like structured TiC as a high capacity electrode material for Na ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 29106-29113	3.6	33
24	Stomata-like metal peptide coordination polymer. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 23440-23445	3.5	5
23	Molecular Understanding of the Penetration of Functionalized Gold Nanoparticles into Asymmetric Membranes. <i>Langmuir</i> , 2017 , 33, 361-371	4	38
22	Bio-inspired reversible underwater adhesive. <i>Nature Communications</i> , 2017 , 8, 2218	17.4	243
21	Confining energy migration in upconversion nanoparticles towards deep ultraviolet lasing. <i>Nature Communications</i> , 2016 , 7, 10304	17.4	193
20	Multiscale molecular dynamics simulations of membrane remodeling by Bin/Amphiphysin/Rvs family proteins. <i>Chinese Physics B</i> , 2016 , 25, 018707	1.2	1
19	Organic Cation-Dependent Degradation Mechanism of Organotin Halide Perovskites. <i>Advanced Functional Materials</i> , 2016 , 26, 3417-3423	15.6	172
18	Myopathy-inducing mutation H40Y in ACTA1 hampers actin filament structure and function. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016 , 1862, 1453-8	6.9	10
17	Dynamic Crystallography Reveals Early Signalling Events in Ultraviolet Photoreceptor UVR8. <i>Nature Plants</i> , 2015 , 1,	11.5	42
16	The role of tryptophans in the UV-B absorption of a UVR8 photoreceptor--a computational study. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 10786-94	3.6	14
15	Graphitic carbon nitride solid nanofilms for selective and recyclable sensing of Cu ²⁺ and Ag ⁺ in water and serum. <i>Chemical Communications</i> , 2014 , 50, 15415-8	5.8	77
14	A PH domain in ACAP1 possesses key features of the BAR domain in promoting membrane curvature. <i>Developmental Cell</i> , 2014 , 31, 73-86	10.2	25
13	Dimerization interface of 3-hydroxyacyl-CoA dehydrogenase tunes the formation of its catalytic intermediate. <i>PLoS ONE</i> , 2014 , 9, e95965	3.7	6
12	Molecular origins of cofilin-linked changes in actin filament mechanics. <i>Journal of Molecular Biology</i> , 2013 , 425, 1225-40	6.5	36
11	Coarse-graining provides insights on the essential nature of heterogeneity in actin filaments. <i>Biophysical Journal</i> , 2012 , 103, 1334-42	2.9	34
10	Influence of nonequilibrium lipid transport, membrane compartmentalization, and membrane proteins on the lateral organization of the plasma membrane. <i>Physical Review E</i> , 2010 , 81, 011908	2.4	45
9	Lipid microdomains: structural correlations, fluctuations, and formation mechanisms. <i>Physical Review Letters</i> , 2010 , 104, 118101	7.4	26

8	Probing Structure and Dynamics of Lipid Microdomains with Tagged Proteins and Lipids: A Hybrid Particle-Continuum Simulation Approach. <i>Biophysical Journal</i> , 2010 , 98, 230a	2.9	
7	Hydrodynamic effects on spinodal decomposition kinetics in planar lipid bilayer membranes. <i>Journal of Chemical Physics</i> , 2010 , 133, 235101	3.9	42
6	Formation and regulation of lipid microdomains in cell membranes: theory, modeling, and speculation. <i>FEBS Letters</i> , 2010 , 584, 1678-84	3.8	81
5	LHRH-functionalized superparamagnetic iron oxide nanoparticles for breast cancer targeting and contrast enhancement in MRI. <i>Materials Science and Engineering C</i> , 2009 , 29, 1467-1479	8.3	65
4	Domain formation in the plasma membrane: roles of nonequilibrium lipid transport and membrane proteins. <i>Physical Review Letters</i> , 2008 , 100, 178102	7.4	33
3	Phase-field simulations of velocity selection in rapidly solidified binary alloys. <i>Physical Review E</i> , 2006 , 74, 031602	2.4	11
2	Gradient fluorinated alloy to enable highly reversible Zn-metal anode chemistry. <i>Energy and Environmental Science</i> ,	35.4	19
1	Strain engineering in the oxygen reduction reaction and oxygen evolution reaction catalyzed by Pt-doped Ti ₂ CF ₂ . <i>Journal of Materials Chemistry A</i> ,	13	6