Ye-Feng Yao

List of Publications by Year
in descending order

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113 papers	6,687 citations	71102 41 h-index	64796 79 g-index
118 all docs	118 docs citations	118 times ranked	6738 citing authors

#	Article	IF	Citations
1	Electrosorption behavior of graphene in NaCl solutions. Journal of Materials Chemistry, 2009, 19, 6773.	6.7	352
2	Heterogeneity in polymer melts from melting of polymer crystals. Nature Materials, 2005, 4, 635-641.	27.5	321
3	Review on carbon-based composite materials for capacitive deionization. RSC Advances, 2015, 5, 15205-15225.	3.6	319
4	Tunable and Switchable Dielectric Constant in an Amphidynamic Crystal. Journal of the American Chemical Society, 2013, 135, 5230-5233.	13.7	307
5	Electrospun carbon nanofibers as anode materials for sodium ion batteries with excellent cycle performance. Journal of Materials Chemistry A, 2014, 2, 4117.	10.3	272
6	Covalent-organic-frameworks derived N-doped porous carbon materials as anode for superior long-life cycling lithium and sodium ion batteries. Carbon, 2017, 116, 686-694.	10.3	260
7	Nanoarchitectured metalâ€“organic framework/polypyrrole hybrids for brackish water desalination using capacitive deionization. Materials Horizons, 2019, 6, 1433-1437.	12.2	241
8	A flexible, high-voltage and safe zwitterionic natural polymer hydrogel electrolyte for high-energy-density zinc-ion hybrid supercapacitor. Chemical Engineering Journal, 2020, 392, 123733.	12.7	212
9	ZnS nanoparticles decorated on nitrogen-doped porous carbon polyhedra: a promising anode material for lithium-ion and sodium-ion batteries. Journal of Materials Chemistry A, 2017, 5, 20428-20438.	10.3	192
10	Metal-organic frameworks derived yolk-shell ZnO/NiO microspheres as high-performance anode materials for lithium-ion batteries. Chemical Engineering Journal, 2018, 335, 579-589.	12.7	191
11	Design of pomegranate-like clusters with NiS₂ nanoparticles anchored on nitrogen-doped porous carbon for improved sodium ion storage performance. Journal of Materials Chemistry A, 2018, 6, 6595-6605.	10.3	159
12	Rational design of MoS2-reduced graphene oxide sponges as free-standing anodes for sodium-ion batteries. Chemical Engineering Journal, 2018, 332, 260-266.	12.7	159
13	Extraordinary capacitive deionization performance of highly-ordered mesoporous carbon nano-polyhedra for brackish water desalination. Environmental Science: Nano, 2019, 6, 981-989.	4.3	150
14	Ti3C2 MXenes-derived NaTi2(PO4)3/MXene nanohybrid for fast and efficient hybrid capacitive deionization performance. Chemical Engineering Journal, 2021, 407, 127148.	12.7	140
15	Organic enantiomeric high- T _c ferroelectrics. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 5878-5885.	7.1	137
16	In-situ encapsulation of Ni3S2 nanoparticles into N-doped interconnected carbon networks for efficient lithium storage. Chemical Engineering Journal, 2019, 378, 122108.	12.7	136
17	Dynamics of a caged imidazolium cationâ€“toward understanding the order-disorder phase transition and the switchable dielectric constant. Chemical Communications, 2015, 51, 4568-4571.	4.1	121
18	Metalâ€“organic framework-engaged formation of a hierarchical hybrid with carbon nanotube inserted porous carbon polyhedra for highly efficient capacitive deionization. Journal of Materials Chemistry A, 2016, 4, 5467-5473.	10.3	117

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19	Metalâ€“organic-frameworks-derived NaTi₂(PO₄)₃/carbon composites for efficient hybrid capacitive deionization. Journal of Materials Chemistry A, 2019, 7, 12126-12133.	10.3	115
20	Surface hydrogen bonding can enhance photocatalytic H2 evolution efficiency. Journal of Materials Chemistry A, 2013, 1, 14089.	10.3	113
21	Synergistic coupling of NiS1.03 nanoparticle with S-doped reduced graphene oxide for enhanced lithium and sodium storage. Chemical Engineering Journal, 2021, 407, 127199.	12.7	110
22	Facile self-templating synthesis of layered carbon with N, S dual doping for highly efficient sodium storage. Carbon, 2021, 173, 31-40.	10.3	107
23	In-situ construction of g-C3N4/Mo2CTx hybrid for superior lithium storage with significantly improved Coulombic efficiency and cycling stability. Chemical Engineering Journal, 2021, 410, 128349.	12.7	105
24	A Chemically Triggered and Thermally Switched Dielectric Constant Transition in a Metal Cyanide Based Crystal. Angewandte Chemie - International Edition, 2015, 54, 6206-6210.	13.8	103
25	Transferring Lithium Ions in Nanochannels: A PEO/Li⁺ Solid Polymer Electrolyte Design. Angewandte Chemie - International Edition, 2014, 53, 3631-3635.	13.8	102
26	Geometric isotope effect of deuteration in a hydrogen-bonded hostâ€“guest crystal. Nature Communications, 2018, 9, 481.	12.8	76
27	Facile dual doping strategy via carbonization of covalent organic frameworks to prepare hierarchically porous carbon spheres for membrane capacitive deionization. Chemical Communications, 2018, 54, 14009-14012.	4.1	74
28	Metal-organic frameworks converted flower-like hybrid with Co3O4 nanoparticles decorated on nitrogen-doped carbon sheets for boosted lithium storage performance. Chemical Engineering Journal, 2018, 354, 172-181.	12.7	68
29	Insights into the storage mechanism of 3D nanoflower-like V3S4 anode in sodium-ion batteries. Chemical Engineering Journal, 2022, 427, 130936.	12.7	67
30	Heterogeneous Distribution of Entanglements in a Nonequilibrium Polymer Melt of UHMWPE: Influence on Crystallization without and with Graphene Oxide. Macromolecules, 2016, 49, 7497-7509.	4.8	64
31	Recent progress on metalâ€“organic framework-derived materials for sodium-ion battery anodes. Inorganic Chemistry Frontiers, 2020, 7, 567-582.	6.0	63
32	Heterogeneous ice nucleation correlates with bulk-like interfacial water. Science Advances, 2019, 5, eaat9825.	10.3	60
33	Synergistic Promotion of Single-Atom Co Surrounding a PtCo Alloy Based On a g-C₃N₄ Nanosheet for Overall Water Splitting. ACS Catalysis, 2022, 12, 6958-6967.	11.2	59
34	Accurate and Real-Time Temperature Monitoring during MR Imaging Guided PTT. Nano Letters, 2020, 20, 2522-2529.	9.1	56
35	Highly efficient and stable desalination via novel hybrid capacitive deionization with redox-active polyimide cathode. Desalination, 2019, 469, 114098.	8.2	53
36	NMR Study on the Effects of Sodium n-Dodecyl Sulfate on the Coil-to-Globule Transition of Poly(N-isopropylacrylamide) in Aqueous Solutions. Macromolecules, 2011, 44, 6227-6231.	4.8	51

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37	Controlling Polymer Architecture through Host-Guest Interactions. Angewandte Chemie - International Edition, 2006, 45, 87-90.	13.8	50
38	Operando NMR spectroscopic analysis of proton transfer in heterogeneous photocatalytic reactions. Nature Communications, 2016, 7, 11918.	12.8	49
39	Prussian blue analogue derived cobaltâ€“nickel phosphide/carbon nanotube composite as electrocatalyst for efficient and stable hydrogen evolution reaction in wide-pH environment. Journal of Colloid and Interface Science, 2022, 616, 210-220.	9.4	49
40	Cocoon derived nitrogen enriched activated carbon fiber networks for capacitive deionization. Journal of Electroanalytical Chemistry, 2017, 804, 179-184.	3.8	47
41	The construction of a two-dimensional organicâ€“inorganic hybrid double perovskite ferroelastic with a high T_c and narrow band gap. Chemical Science, 2022, 13, 4794-4800.	7.4	46
42	Switching Dielectric Constant Near Room Temperature in a Molecular Crystal. Advanced Science, 2015, 2, 1500029.	11.2	42
43	An above-room-temperature phosphonium-based molecular ferroelectric perovskite, [(CH3)4P]CdCl3, with Sb3+-doped luminescence. NPG Asia Materials, 2019, 11, .	7.9	42
44	Metal chelate induced in situ wrapping of Ni₃S₂ nanoparticles into N, S-codoped carbon networks for highly efficient sodium storage. Inorganic Chemistry Frontiers, 2019, 6, 694-704.	6.0	40
45	Novel hybrid capacitive deionization constructed by a redox-active covalent organic framework and its derived porous carbon for highly efficient desalination. Journal of Materials Chemistry A, 2019, 7, 25305-25313.	10.3	40
46	N-doped carbon@Cu coreâ€“shell nanostructure with nearly full solar spectrum absorption and enhanced solar evaporation efficiency. Journal of Materials Chemistry A, 2022, 10, 9575-9581.	10.3	37
47	BrÃ¸nsted base site engineering of graphitic carbon nitride for enhanced photocatalytic activity. Journal of Materials Chemistry A, 2017, 5, 19227-19236.	10.3	36
48	Identifying Catalytically Active Mononuclear Peroxoniobate Anion of Ionic Liquids in the Epoxidation of Olefins. ACS Catalysis, 2018, 8, 4645-4659.	11.2	36
49	Highly Efficient Epoxidation of Allylic Alcohols with Hydrogen Peroxide Catalyzed by Peroxoniobate-Based Ionic Liquids. ACS Catalysis, 2016, 6, 3354-3364.	11.2	35
50	Novel membrane-free hybrid capacitive deionization with a radical polymer anode for stable desalination. Desalination, 2020, 481, 114379.	8.2	34
51	Surface Passivation and Energetic Modification Suppress Nonradiative Recombination in Perovskite Solar Cells. Nano-Micro Letters, 2022, 14, 108.	27.0	34
52	¹³C Solid State NMR Characterization of Structure and Orientation Development in the Narrow and Broad Molar Mass Disentangled UHMWPE. Macromolecules, 2014, 47, 1371-1382.	4.8	33
53	Phase Structure and Helical Jump Motion of Poly(ethylene oxide)/LiCF₃SO₃ Crystalline Complex: A High-Resolution Solid-State ¹³C NMR Approach. Macromolecules, 2013, 46, 4447-4453.	4.8	30
54	Viologen-bridged polyaniline based multifunctional heterofilms for all-solid-state supercapacitors and memory devices. European Polymer Journal, 2018, 98, 125-136.	5.4	29

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55	Origin of Photocatalytic Activity in Ti⁴⁺/Ti³⁺ Coreâ€“Shell Titanium Oxide Nanocrystals. Journal of Physical Chemistry C, 2019, 123, 20949-20959.	3.1	29
56	Light-conversion phosphor nanoarchitectonics for improved light harvesting in sensitized solar cells. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2021, 47, 100404.	11.6	29
57	Self-Healing Amorphous Polymers with Room-Temperature Phosphorescence Enabled by Boron-Based Dative Bonds. ACS Applied Polymer Materials, 2020, 2, 699-705.	4.4	27
58	Segmental Dynamics of PEO/LiClO₄ Complex Crystals and Their Influence on the Li⁺â€Ion Transportation in Crystal Lattices: A ¹³C Solidâ€State NMR Approach. Chemistry - A European Journal, 2011, 17, 8941-8946.	3.3	25
59	Facile self-assembly of carbon-free vanadium sulfide nanosheet for stable and high-rate lithium-ion storage. Journal of Colloid and Interface Science, 2022, 607, 145-152.	9.4	25
60	Suppressing the oxygen-related parasitic reactions in NaTi2(PO4)3-based hybrid capacitive deionization with cation exchange membrane. Journal of Colloid and Interface Science, 2021, 591, 139-147.	9.4	24
61	Boosting the lithium storage performance by synergistically coupling ultrafine heazlewoodite nanoparticle with N, S co-doped carbon. Journal of Colloid and Interface Science, 2021, 604, 368-377.	9.4	24
62	Revealing structure and dynamics in hostâ€“guest supramolecular crystalline polymer electrolytes by solid-state NMR: Applications to Î²-CD-polyether/Li+ crystal. Polymer, 2016, 105, 310-317.	3.8	23
63	In-situ fabrication of few-layered MoS2 wrapped on TiO2-decorated MXene as anode material for durable lithium-ion storage. Journal of Colloid and Interface Science, 2021, 604, 30-38.	9.4	23
64	A ferroelastic molecular rotor crystal showing inverse temperature symmetry breaking. Inorganic Chemistry Frontiers, 2021, 8, 2809-2816.	6.0	22
65	Crosslinking Nanoarchitectonics of Nitrogenâ€doped Carbon/MoS₂ Nanosheets/Ti₃C₂T_x MXene Hybrids for Highly Reversible Sodium Storage. ChemSusChem, 2021, 14, 5293-5303.	6.8	22
66	Fast Lithiumâ€Ion Transportation in Crystalline Polymer Electrolytes. ChemPhysChem, 2018, 19, 45-50.	2.1	21
67	Ionic Liquid Stabilized Niobium Oxoclusters Catalyzing Oxidation of Sulfides with Exceptional Activity. Chemistry - A European Journal, 2019, 25, 4206-4217.	3.3	20
68	Facile in-situ synthesis of heazlewoodite on nitrogen-doped reduced graphene oxide for enhanced sodium storage. Journal of Colloid and Interface Science, 2021, 594, 35-46.	9.4	20
69	NMR Study of Thermoresponsive Hyperbranched Polymer in Aqueous Solution with Implication on the Phase Transition. Macromolecules, 2013, 46, 9688-9697.	4.8	17
70	Viologen-based conjugated ionic polymer for nonvolatile rewritable memory device. European Polymer Journal, 2017, 94, 222-229.	5.4	16
71	Polyaniline coated MOF-derived Mn2O3 nanorods for efficient hybrid capacitive deionization. Environmental Research, 2022, 212, 113331.	7.5	16
72	Probing the Fast Lithium-Ion Transport in Small-Molecule Solid Polymer Electrolytes by Solid-State NMR. Macromolecules, 2020, 53, 10078-10085.	4.8	15

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73	Ionic Conductivity of Î²â€Cyclodextrinâ€“Polyethyleneâ€Oxide/Alkaliâ€Metalâ€Salt Complex. Chemistry - A European Journal, 2015, 21, 6346-6349.	3.3	14
74	Selective hydrogenâ€“deuterium exchange in graphitic carbon nitrides: probing the active sites for photocatalytic water splitting by solid-state NMR. Journal of Materials Chemistry A, 2021, 9, 3985-3994.	10.3	14
75	Shape and size effects on photocatalytic hydrogen production via Pd/C₃N₄ photocatalysts under visible light. Catalysis Science and Technology, 2020, 10, 5438-5442.	4.1	13
76	Formamidinium lead triiodide perovskites with improved structural stabilities and photovoltaic properties obtained by ultratrace dimethylamine substitution. NPG Asia Materials, 2022, 14, .	7.9	13
77	In situ NMR Investigation of the Photoresponse of Perovskite Crystal. Matter, 2020, 3, 2042-2054.	10.0	12
78	Metastable alloying structures in MAPbI3â¯xClx crystals. NPG Asia Materials, 2020, 12, .	7.9	12
79	Cooperative Motion in Waterâ€“Methanol Clusters Controls the Reaction Rates of Heterogeneous Photocatalytic Reactions. Journal of the American Chemical Society, 2021, 143, 10940-10947.	13.7	12
80	NMR Study on the Roles of Li⁺ in the Cellulose Dissolution Process. ACS Sustainable Chemistry and Engineering, 2019, 7, 618-624.	6.7	11
81	Solvent Water Controls Photocatalytic Methanol Reforming. Journal of Physical Chemistry Letters, 2020, 11, 3738-3744.	4.6	11
82	Cu-based MOF-derived architecture with Cu/Cu2O nanospheres anchored on porous carbon nanosheets for efficient capacitive deionization. Environmental Research, 2022, 210, 112909.	7.5	11
83	Rapid Identification of Adulteration in Edible Vegetable Oils Based on Low-Field Nuclear Magnetic Resonance Relaxation Fingerprints. Foods, 2021, 10, 3068.	4.3	11
84	Well-dispersed ZIF-derived N-doped carbon nanoframes with anchored Ru nanoclusters as HER electrocatalysts. International Journal of Hydrogen Energy, 2022, 47, 14836-14846.	7.1	11
85	Interfacial water in mesopores and its implications to the surface features â€“ A solid state NMR study. Applied Surface Science, 2019, 484, 1154-1160.	6.1	10
86	Thermoresponsive Hyperbranched Polymers with Spatially Isomerized Groups: NMR Implication to Their Thermoresponsive Behaviors. Macromolecules, 2017, 50, 9647-9655.	4.8	10
87	Ionic liquid-stabilized vanadium oxo-clusters catalyzing alkane oxidation by regulating oligovanadates. Catalysis Science and Technology, 2020, 10, 7601-7612.	4.1	9
88	Probing the methanol heterogeneous photochemistry processes by operando NMR â€“ The role of bulk water. Journal of Catalysis, 2019, 378, 36-41.	6.2	8
89	Enhanced photocatalytic reduction of Cr(vi) to Cr(iii) over g-C3N4 catalysts with Ag nanoclusters in conjunction with Cr(iii) quantification based on operando low-field NMR relaxometry. Environmental Science: Nano, 2020, 7, 2823-2832.	4.3	8
90	Solid-state NMR study of adsorbed water molecules in covalent organic framework materials. Microporous and Mesoporous Materials, 2020, 305, 110287.	4.4	8

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91	Role of Organic Fluoride Salts in Stabilizing Niobium Oxo-Clusters Catalyzing Epoxidation. Langmuir, 2021, 37, 8190-8203.	3.5	8
92	Self-Enhanced Acoustic Impedance Difference Strategy for Detecting the Acidic Tumor Microenvironment. ACS Nano, 2022, 16, 4217-4227.	14.6	8
93	Unexpected Role of Short Chains in Entangled Polymer Networks. ACS Macro Letters, 2022, 11, 669-674.	4.8	8
94	Operando NMR study on the effect of photon flux and wavelength on photocatalytic reforming of methanol. Journal of Catalysis, 2020, 382, 173-180.	6.2	7
95	Probing the Dynamics of Li+ Ions on the Crystal Surface: A Solid-State NMR Study. Polymers, 2020, 12, 391.	4.5	6
96	Preparation of the individual compact single-chain globular particulates of Poly(N-isopropylacrylamide). Colloid and Polymer Science, 2006, 284, 935-940.	2.1	5
97	Annealing To Induce Formation of Defects in Polyether/Li⁺ Complex Crystals â€“ A Way To Significantly Enhance the Crystalline Segmental Mobility. Macromolecules, 2019, 52, 5971-5976.	4.8	5
98	Solvent-polymer guest exchange in a carbamazepine inclusion complex: structure, kinetics and implication for guest selection. CrystEngComm, 2019, 21, 2164-2173.	2.6	5
99	Specific thermoresponsive behaviours exhibited by optically active and inactive phenylalanine modified hyperbranched polyethylenimines in water. Chinese Journal of Polymer Science (English Edition), 2017, 35, 1035-1042.	3.8	4
100	Dynamic heterogeneity in homogeneous polymer melts. Soft Matter, 2021, 17, 6081-6087.	2.7	4
101	A Novel Salenâ€based Porous Framework Polymer as Durable Anode for Lithiumâ€Ion Storage. ChemSusChem, 2021, 14, 4601-4608.	6.8	4
102	A Small Lattice Change Induces Significant Dynamic Changes of CH3NH3+ Caged in Hybrid Perovskite Crystals: Toward Understanding the Interplay between Host Lattices and Guest Molecules. Inorganic Chemistry, 2019, 58, 7426-7432.	4.0	3
103	Illumination-Induced Changes in Methylammonium Lead Bromine Perovskites. An In Situ 2H NMR Study. Journal of Physical Chemistry C, 2021, 125, 9908-9915.	3.1	3
104	Olefin epoxidation with ionic liquid catalysts formed by supramolecular interactions. Molecular Catalysis, 2021, 500, 111342.	2.0	3
105	Tetranuclear ruthenium clusters anchored on polyoxometalates catalyze the hydrogenation of methyl levulinate in water. New Journal of Chemistry, 2021, 45, 21215-21224.	2.8	3
106	Monitoring Cr(VI) photoreduction at different depths by operando low-field NMR relaxometry. Magnetic Resonance Letters, 2022, 2, 170-176.	1.3	3
107	Enhanced hydrogen evolution reaction activity of FeM (MÂ=ÂPt, Pd, Ru, Rh) nanoparticles with N-doped carbon coatings over a wide-pH environment. Molecular Catalysis, 2021, 514, 111830.	2.0	2
108	A-Site Mixing to Adjust the Photovoltaic Performance of a Double-Cation Perovskite: It Is Not Always the Simple Way. Journal of Physical Chemistry Letters, 2021, 12, 11206-11213.	4.6	2

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109	Multiple-targeting NMR signal selection by optimal control of nuclear spin singlet. Journal of Magnetic Resonance, 2022, 338, 107188.	2.1	2
110	Operando NMR Spectroscopic Analysis of the Effects of Pt Nanoparticle Size and Crystal Facet Structure on the Alcohol Reforming Reactions. Journal of Physical Chemistry C, 0, , .	3.1	1
111	Colorless Chemical Substance Detection in the Degradation of Tetracycline Based on Operando 1H Nuclear Magnetic Resonance Spectroscopy. Journal of Physical Chemistry C, 2021, 125, 23169-23177.	3.1	0
112	Solid-state NMR studies on crystalline solid polymer electrolytes and important cathode materials for lithium-ion batteries. Annual Reports on NMR Spectroscopy, 2020, , 265-308.	1.5	0
113	Evidencing active-site transfer in the hetero-structure photo-catalytic processes via NMR molecular probes. Journal of Catalysis, 2022, , .	6.2	0