

Ying Chen

List of Publications by Year in descending order

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41
papers

2,380
citations

394421

19
h-index

276875

41
g-index

44
all docs

44
docs citations

44
times ranked

3282
citing authors

#	ARTICLE	IF	CITATIONS
1	Water-Lubricated Intercalation in $V_2O_5 \cdot nH_2O$ for High-Capacity and High-Rate Aqueous Rechargeable Zinc Batteries. <i>Advanced Materials</i> , 2018, 30, 1703725.	21.0	1,084
2	Reversible ketone hydrogenation and dehydrogenation for aqueous organic redox flow batteries. <i>Science</i> , 2021, 372, 836-840.	12.6	135
3	Facet-Specific Photocatalytic Degradation of Organics by Heterogeneous Fenton Chemistry on Hematite Nanoparticles. <i>Environmental Science & Technology</i> , 2019, 53, 10197-10207.	10.0	101
4	Unraveling the mysterious failure of Cu/SAPO-34 selective catalytic reduction catalysts. <i>Nature Communications</i> , 2019, 10, 1137.	12.8	99
5	Mechanism by which Tungsten Oxide Promotes the Activity of Supported V_2O_5/TiO_2 Catalysts for NO_x Abatement: Structural Effects Revealed by ^{51}V MAS NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 12609-12616.	13.8	96
6	A New Interleukin-13 Amino-Coated Gadolinium Metallofullerene Nanoparticle for Targeted MRI Detection of Glioblastoma Tumor Cells. <i>Journal of the American Chemical Society</i> , 2015, 137, 7881-7888.	13.7	76
7	Highly Conductive and Thermally Stable Ion Gels with Tunable Anisotropy and Modulus. <i>Advanced Materials</i> , 2016, 28, 2571-2578.	21.0	70
8	$Gd_3N@C_{84}(OH)_x$: A New Egg-Shaped Metallofullerene Magnetic Resonance Imaging Contrast Agent. <i>Journal of the American Chemical Society</i> , 2014, 136, 2630-2636.	13.7	67
9	Probing Active-Site Relocation in Cu/SSZ-13 SCR Catalysts during Hydrothermal Aging by In Situ EPR Spectroscopy, Kinetics Studies, and DFT Calculations. <i>ACS Catalysis</i> , 2020, 10, 9410-9419.	11.2	64
10	Hydroxyalkyl-Containing Imidazolium Homopolymers: Correlation of Structure with Conductivity. <i>Macromolecules</i> , 2013, 46, 3037-3045.	4.8	52
11	Reversible Electrochemical Interface of Mg Metal and Conventional Electrolyte Enabled by Intermediate Adsorption. <i>ACS Energy Letters</i> , 2020, 5, 200-206.	17.4	44
12	Cr(III) Adsorption by Cluster Formation on Boehmite Nanoplates in Highly Alkaline Solution. <i>Environmental Science & Technology</i> , 2019, 53, 11043-11055.	10.0	42
13	A closed cycle for esterifying aromatic hydrocarbons with CO_2 and alcohol. <i>Nature Chemistry</i> , 2019, 11, 940-947.	13.6	30
14	Humidity-Modulated Phase Control and Nanoscopic Transport in Supramolecular Assemblies. <i>Journal of Physical Chemistry B</i> , 2014, 118, 3207-3217.	2.6	28
15	Role of Solvent Rearrangement on Mg^{2+} Solvation Structures in Dimethoxyethane Solutions using Multimodal NMR Analysis. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6443-6449.	4.6	27
16	A sobering examination of the feasibility of aqueous aluminum batteries. <i>Energy and Environmental Science</i> , 2022, 15, 2460-2469.	30.8	27
17	Origin of Unusual Acidity and Li^+ Diffusivity in a Series of Water-in-Salt Electrolytes. <i>Journal of Physical Chemistry B</i> , 2020, 124, 5284-5291.	2.6	26
18	A lithium-sulfur battery with a solution-mediated pathway operating under lean electrolyte conditions. <i>Nano Energy</i> , 2020, 76, 105041.	16.0	25

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19	Photo-production of reactive oxygen species and degradation of dissolved organic matter by hematite nanoplates functionalized by adsorbed oxalate. <i>Environmental Science: Nano</i> , 2020, 7, 2278-2292.	4.3	21
20	The Quantum Solvation, Adiabatic versus Nonadiabatic, and Markovian versus Non-Markovian Nature of Electron-Transfer Rate Processes. <i>Journal of Physical Chemistry A</i> , 2007, 111, 9618-9626.	2.5	20
21	Quantitative Cu Counting Methodologies for Cu/SSZ-13 Selective Catalytic Reduction Catalysts by Electron Paramagnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 28061-28073.	3.1	20
22	Pulsed Field Gradient Nuclear Magnetic Resonance and Diffusion Analysis in Battery Research. <i>Chemistry of Materials</i> , 2021, 33, 8562-8590.	6.7	20
23	Adsorption and Thermal Decomposition of Electrolytes on Nanometer Magnesium Oxide: An in Situ ¹³ C MAS NMR Study. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38689-38696.	8.0	19
24	The role of surface hydroxyls on the radiolysis of gibbsite and boehmite nanoplatelets. <i>Journal of Hazardous Materials</i> , 2020, 398, 122853.	12.4	18
25	Diffusion of Drug Delivery Nanoparticles into Biogels Using Time-Resolved MicroMRI. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3825-3830.	4.6	17
26	A multi-functional interface derived from thiol-modified mesoporous carbon in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2019, 7, 13372-13381.	10.3	17
27	Factors Influencing Preferential Anion Interactions during Solvation of Multivalent Cations in Ethereal Solvents. <i>Journal of Physical Chemistry C</i> , 2021, 125, 6005-6012.	3.1	17
28	Solvent-assisted thermal annealing of disulfonated poly(arylene ether sulfone) random copolymers for low humidity polymer electrolyte membrane fuel cells. <i>RSC Advances</i> , 2012, 2, 1025-1032.	3.6	16
29	Relating Geometric Nanoconfinement and Local Molecular Environment to Diffusion in Ionic Polymer Membranes. <i>Macromolecules</i> , 2020, 53, 3296-3305.	4.8	16
30	Probing Conformational Evolution and Associated Dynamics of Mg(N(SO ₂ CF ₃) ₂) ₂ -Dimethoxyethane Adduct Using Solid-State ¹⁹ F and ¹ H NMR. <i>Journal of Physical Chemistry C</i> , 2020, 124, 4999-5008.	3.1	13
31	High-resolution microstrip NMR detectors for subnanoliter samples. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28163-28174.	2.8	12
32	Bottom-Up Fabrication of Nanostructured Bicontinuous and Hexagonal Ion-Conducting Polymer Membranes. <i>Macromolecules</i> , 2017, 50, 5392-5401.	4.8	12
33	Monitoring solvent dynamics and ion associations in the formation of cubic octamer polyanion in tetramethylammonium silicate solutions. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 4717-4720.	2.8	9
34	Role of a Multivalent Ion-Solvent Interaction on Restricted Mg ²⁺ Diffusion in Dimethoxyethane Electrolytes. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12574-12583.	2.6	7
35	Toward high-resolution NMR spectroscopy of microscopic liquid samples. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14256-14261.	2.8	6
36	A novel high-temperature MAS probe with optimized temperature gradient across sample rotor for in-situ monitoring of high-temperature high-pressure chemical reactions. <i>Solid State Nuclear Magnetic Resonance</i> , 2019, 102, 31-35.	2.3	6

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37	Understanding the Solvation-Dependent Properties of Cyclic Ether Multivalent Electrolytes Using High-Field NMR and Quantum Chemistry. <i>Jacs Au</i> , 2022, 2, 917-932.	7.9	5
38	Evolution of Radicals from the Photolysis of High Ionic Strength Alkaline Nitrite Solutions. <i>Journal of Physical Chemistry A</i> , 2020, 124, 3019-3025.	2.5	4
39	An automated framework for high-throughput predictions of NMR chemical shifts within liquid solutions. <i>Nature Computational Science</i> , 2022, 2, 112-122.	8.0	4
40	Pair-Hopping Characteristic of Lithium Diffusive Motion in Li-Doped $\hat{1}^2$ -Phase Manganese Phthalocyanine. <i>Journal of Physical Chemistry B</i> , 2007, 111, 10064-10068.	2.6	3
41	Crystallinity and Motional Dynamics Study of a Series of Poly(arylene ether sulfone) Segmented Copolymer Analogues. <i>Journal of Physical Chemistry B</i> , 2012, 116, 7970-7980.	2.6	1