

Zhong Chen

List of Publications by Year in descending order

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Version: 2024-02-01

637
papers

36,155
citations

2427

97
h-index

5988

160
g-index

654
all docs

654
docs citations

654
times ranked

34349
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible electrochromic fiber with rapid color switching and high optical modulation. <i>Nano Research</i> , 2023, 16, 5473-5479.	10.4	16
2	A robust and transparent hydrogel coating for sustainable antifogging with excellent self-cleaning and self-healing ability. <i>Chemical Engineering Journal</i> , 2023, 451, 137879.	12.7	27
3	Insights into Improving Photoelectrochemical Water-Splitting Performance Using Hematite Anode. <i>Energy Technology</i> , 2022, 10, 2100457.	3.8	10
4	Visible light photodegradation of 2,4-dichlorophenol using nanostructured NaBiS ₂ : Kinetics, cytotoxicity, antimicrobial and electrochemical studies of the photocatalyst. <i>Chemosphere</i> , 2022, 287, 132174.	8.2	15
5	Superwetting patterned PDMS/PMMA materials by facile one-step electro-spraying for signal expression and liquid transportation. <i>Chemical Engineering Journal</i> , 2022, 431, 133206.	12.7	11
6	Spatially dispersed one-dimensional carbon architecture on oxide framework for oxygen electrochemistry. <i>Chemical Engineering Journal</i> , 2022, 433, 133649.	12.7	10
7	A superhydrophobic TPU/CNTs@SiO ₂ coating with excellent mechanical durability and chemical stability for sustainable anti-fouling and anti-corrosion. <i>Chemical Engineering Journal</i> , 2022, 434, 134605.	12.7	66
8	Smart surfaces with reversibly switchable wettability: Concepts, synthesis and applications. <i>Advances in Colloid and Interface Science</i> , 2022, 300, 102584.	14.7	33
9	Mechanically robust multifunctional antifogging coating on transparent plastic substrates. <i>Applied Surface Science</i> , 2022, 580, 152307.	6.1	10
10	Effect of cobalt phosphide (CoP) vacancies on its hydrogen evolution activity <i>via</i> water splitting: a theoretical study. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4644-4652.	2.8	20
11	Neural Network Method for Diffusion-Ordered NMR Spectroscopy. <i>Analytical Chemistry</i> , 2022, 94, 2699-2705.	6.5	8
12	Dual-functional underliquid superhydrophobic and superoleophobic stainless steel mesh decorated with Ni ₃ S ₂ nanorods for continuous oil/water separation. <i>Surface and Coatings Technology</i> , 2022, 434, 128177.	4.8	12
13	High-resolution diffusion-order NMR spectroscopy in inhomogeneous magnetic fields via intermolecular zero-quantum coherences. <i>Analytica Chimica Acta</i> , 2022, 1197, 339508.	5.4	1
14	Trimetallic oxide-hydroxide porous nanosheets for efficient water oxidation. <i>Chemical Engineering Journal</i> , 2022, 435, 135019.	12.7	13
15	In Operando Neutron Scattering Multiple-Scale Studies of Lithium-Ion Batteries. <i>Small</i> , 2022, 18, e2107491.	10.0	11
16	Fast Acquisition of High-Quality Nuclear Magnetic Resonance Pure Shift Spectroscopy via a Deep Neural Network. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 2101-2106.	4.6	4
17	Functionalized Fiber-Based Strain Sensors: Pathway to Next-Generation Wearable Electronics. <i>Nano-Micro Letters</i> , 2022, 14, 61.	27.0	113
18	Fog Harvesting Devices Inspired from Single to Multiple Creatures: Current Progress and Future Perspective. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	62

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19	Design of Hierarchical Oxideâ€Carbon Nanostructures for Trifunctional Electrocatalytic Applications. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	8
20	Adaptable Singlet-Filtered Nuclear Magnetic Resonance Spectroscopy for Chemical and Biological Applications. <i>Analytical Chemistry</i> , 2022, 94, 4201-4208.	6.5	6
21	Regulating Electronic Structure in Bi ₂ O ₃ Architectures by Ti Mediation: A Strategy for Dual Active Sites Synergistically Promoting Photocatalytic Nitrogen Hydrogenation. <i>ChemSusChem</i> , 2022, 15, .	6.8	6
22	In situ optical spectroscopic understanding of electrochemical passivation mechanism on solâ€gel processed WO ₃ photoanodes. <i>Journal of Energy Chemistry</i> , 2022, 71, 20-28.	12.9	17
23	Steering Unit Cell Dipole and Internal Electric Field by Highly Dispersed Er atoms Embedded into NiO for Efficient CO ₂ Photoreduction. <i>Advanced Functional Materials</i> , 2022, 32, .	14.9	52
24	Rational construction of superhydrophobic PDMS/PTW@cotton fabric for efficient UV/NIR light shielding. <i>Cellulose</i> , 2022, 29, 4673-4685.	4.9	5
25	Hydrogel materials for sustainable water resources harvesting & treatment: Synthesis, mechanism and applications. <i>Chemical Engineering Journal</i> , 2022, 439, 135756.	12.7	75
26	A Mechanically Reliable Transparent Antifogging Coating on Polymeric Lenses. <i>Advanced Materials Interfaces</i> , 2022, 9, .	3.7	7
27	In Situ Real-Time Quantitative Determination in Electrochemical Nuclear Magnetic Resonance Spectroscopy. <i>Sensors</i> , 2022, 22, 282.	3.8	2
28	Supermagnetic Mn-substituted ZnFe ₂ O ₄ with AB-site hybridization for the ultra-effective catalytic degradation of azoxystrobin. <i>Catalysis Science and Technology</i> , 2022, 12, 3137-3147.	4.1	5
29	Simultaneous acquirement of pure shift 2D homonuclear correlation spectra. <i>Journal of Magnetic Resonance</i> , 2022, 339, 107229.	2.1	1
30	A durable Ni ₃ S ₂ coated mesh with reversible transition between superhydrophobicity and underwater superoleophobicity for efficient oil-water separation. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107890.	6.7	9
31	Mechanically robust anti-fingerprint coating on polycarbonate substrate. <i>Applied Surface Science</i> , 2022, 597, 153706.	6.1	9
32	Rational design of electrospun nanofibers for gas purification: Principles, opportunities, and challenges. <i>Chemical Engineering Journal</i> , 2022, 446, 137099.	12.7	27
33	Deformation and breakup of water droplets containing polymer under a DC electric field. <i>AIChE Journal</i> , 2022, 68, .	3.6	7
34	Hollow Microneedles on a Paper Fabricated by Standard Photolithography for the Screening Test of Prediabetes. <i>Sensors</i> , 2022, 22, 4253.	3.8	15
35	The synergistic catalysis on Co nanoparticles and Co _{Nx} sites of aniline-modified ZIF derived Co@NCs for oxidative esterification of HMF. <i>Chinese Chemical Letters</i> , 2021, 32, 685-690.	9.0	47
36	Highâ€resolution 2â€D NMR spectroscopy based on the Radon transform and pure shift technique for studying chemical shifts perturbations. <i>Magnetic Resonance in Chemistry</i> , 2021, 59, 346-353.	1.9	1

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37	Hydroxyapatite-modified micro/nanostructured titania surfaces with different crystalline phases for osteoblast regulation. <i>Bioactive Materials</i> , 2021, 6, 1118-1129.	15.6	38
38	Namib desert beetle inspired special patterned fabric with programmable and gradient wettability for efficient fog harvesting. <i>Journal of Materials Science and Technology</i> , 2021, 61, 85-92.	10.7	92
39	Photothermal and Joule heating-assisted thermal management sponge for efficient cleanup of highly viscous crude oil. <i>Journal of Hazardous Materials</i> , 2021, 403, 124090.	12.4	109
40	Recent advances in fabricating durable superhydrophobic surfaces: a review in the aspects of structures and materials. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1655-1682.	5.9	94
41	Rational designed structured superhydrophobic iron oxide surface towards sustainable anti-corrosion and self-cleaning. <i>Chemical Engineering Journal</i> , 2021, 416, 127768.	12.7	34
42	Structure and mechanical properties of HNTs/SiBCN ceramic hybrid aerogels. <i>Ceramics International</i> , 2021, 47, 9083-9089.	4.8	5
43	Enhanced thermal shrinkage behavior of phenolic-derived carbon aerogel-reinforced by HNTs with superior compressive strength performance. <i>Ceramics International</i> , 2021, 47, 6487-6495.	4.8	14
44	Freestanding MoS ₂ @carbonized cellulose aerogel derived from waste cotton for sustainable and highly efficient particulate matter capturing. <i>Separation and Purification Technology</i> , 2021, 254, 117571.	7.9	23
45	An Orthogonal-Pattern Absorption-Mode 2D ¹ H-Resolved NMR Spectroscopy for Analyses on Complex Samples. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-9.	4.7	17
46	Modification of graphene aerogel with titania nanotubes for efficient methylene blue adsorption kinetics. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 97, 271-280.	2.4	7
47	Bioinspired structural and functional designs towards interfacial solar steam generation for clean water production. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1510-1524.	5.9	42
48	Heterostructured Ternary In ₂ O ₃ ~Ag~TiO ₂ Nanotube Arrays for Simulated Sunlight-Driven Photoelectrocatalytic Hydrogen Generation. <i>ChemElectroChem</i> , 2021, 8, 577-584.	3.4	7
49	Microstructure and wear characteristics of in-situ micro/nanoscale niobium carbide reinforced copper composites fabricated through powder metallurgy. <i>Materials Characterization</i> , 2021, 172, 110847.	4.4	19
50	Tailoring Electronic Structure and Size of Ultrastable Metalated Metal-Organic Frameworks with Enhanced Electroconductivity for High-Performance Supercapacitors. <i>Angewandte Chemie</i> , 2021, 133, 10316-10326.	2.0	6
51	Optimization of twin parallel microstrips based nuclear magnetic resonance probe for measuring the kinetics in molecular assembly in ultra-small samples. <i>Review of Scientific Instruments</i> , 2021, 92, 033106.	1.3	1
52	Tailoring Electronic Structure and Size of Ultrastable Metalated Metal-Organic Frameworks with Enhanced Electroconductivity for High-Performance Supercapacitors. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 10228-10238.	13.8	55
53	Cobalt tungsten phosphide with tunable W-doping as highly efficient electrocatalysts for hydrogen evolution reaction. <i>Nano Research</i> , 2021, 14, 4073-4078.	10.4	27
54	Recent Advances in Silicon-Based Electrodes: From Fundamental Research toward Practical Applications. <i>Advanced Materials</i> , 2021, 33, e2004577.	21.0	168

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55	A simple data post-processing method for axial peaks free 2D PSYCHEDELIC NMR spectra. <i>Journal of Magnetic Resonance</i> , 2021, 325, 106938.	2.1	1
56	Silicon Anodes: Recent Advances in Silicon-Based Electrodes: From Fundamental Research toward Practical Applications (<i>Adv. Mater.</i> 16/2021). <i>Advanced Materials</i> , 2021, 33, 2170124.	21.0	3
57	A multifunctional and environmentally-friendly method to fabricate superhydrophilic and self-healing coatings for sustainable antifogging. <i>Chemical Engineering Journal</i> , 2021, 409, 128228.	12.7	48
58	Hexagonal $\text{WO}_3 \cdot 0.33\text{H}_2\text{O}$ Hierarchical Microstructure with Efficient Photocatalytic Degradation Activity. <i>Catalysts</i> , 2021, 11, 496.	3.5	8
59	Amino-rich surface-modified MXene as anode for hybrid aqueous proton supercapacitors with superior volumetric capacity. <i>Journal of Power Sources</i> , 2021, 495, 229790.	7.8	16
60	In-situ formation of unsaturated defect sites on converted CoNi alloy/Co-Ni LDH to activate MoS_2 nanosheets for pH-universal hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 412, 128556.	12.7	80
61	Unambiguous and accurate measurement of scalar coupling constants through a selective refocusing NMR experiment. <i>Analytica Chimica Acta</i> , 2021, 1159, 338429.	5.4	3
62	High-Resolution Reconstruction for Multidimensional Laplace NMR. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5085-5090.	4.6	15
63	The Total Solubility of the Co-Solubilized PAHs with Similar Structures Indicated by NMR Chemical Shift. <i>Molecules</i> , 2021, 26, 2793.	3.8	3
64	Structure engineering of Fe-based MOF aerogel by Halloysite Nanotubes for efficient methylene blue adsorption. <i>Journal of Sol-Gel Science and Technology</i> , 2021, 99, 55-62.	2.4	7
65	A breathable and environmentally friendly superhydrophobic coating for anti-condensation applications. <i>Chemical Engineering Journal</i> , 2021, 412, 128725.	12.7	29
66	A fundamental viewpoint on the hydrogen spillover phenomenon of electrocatalytic hydrogen evolution. <i>Nature Communications</i> , 2021, 12, 3502.	12.8	183
67	Janus Particle Preparation through UV-Induced Partial Photodegradation of Spin-Coated Particle Films. <i>Langmuir</i> , 2021, 37, 8167-8176.	3.5	2
68	Solar-assisted isotropically thermoconductive sponge for highly viscous crude oil spill remediation. <i>IScience</i> , 2021, 24, 102665.	4.1	29
69	Solar-driven hydrogen generation coupled with urea electrolysis by an oxygen vacancy-rich catalyst. <i>Chemical Engineering Journal</i> , 2021, 414, 128753.	12.7	32
70	Experimental investigation of the anti-soiling performances of different wettability of transparent coatings: Superhydrophilic, hydrophilic, hydrophobic and superhydrophobic coatings. <i>Solar Energy Materials and Solar Cells</i> , 2021, 225, 111053.	6.2	33
71	Bi_2WO_6 hollow microspheres with high specific surface area and oxygen vacancies for efficient photocatalysis N_2 fixation. <i>Chemical Engineering Journal</i> , 2021, 414, 128827.	12.7	97
72	A General Strategy towards Superhydrophobic Self-Cleaning and Anti-Corrosion Metallic Surfaces: An Example with Aluminum Alloy. <i>Coatings</i> , 2021, 11, 788.	2.6	12

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73	Multiplet analysis by strong-coupling-artifact-suppression 2D ^1J -resolved NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2021, 155, 034202.	3.0	2
74	Coupled porosity and heterojunction engineering: MOF-derived porous Co_3O_4 embedded on TiO_2 nanotube arrays for water remediation. <i>Chemosphere</i> , 2021, 274, 129799.	8.2	5
75	Interfacial reinforcement structure design towards ultrastable lithium storage in MoS_2 -based composited electrode. <i>Chemical Engineering Journal</i> , 2021, 416, 129094.	12.7	36
76	Morphology controlled carbon aerogel with enhanced thermal insulation and mechanical properties: a simple route for the regulated synthesis. <i>Journal of Non-Crystalline Solids</i> , 2021, 564, 120828.	3.1	14
77	Exfoliation of 2D materials by saponin in water: Aerogel adsorption / photodegradation organic dye. <i>Chemosphere</i> , 2021, 274, 129795.	8.2	15
78	Effect of Laminate Cutting and Annealing Treatment on the Magnetic Properties of $\text{Fe}_{49}\text{Co}_{49}\text{V}_2$ Alloy. <i>IEEE Transactions on Magnetics</i> , 2021, 57, 1-13.	2.1	0
79	Structural, photocatalytic and electrochemical studies on facile combustion synthesized low-cost nano chromium (III) doped polycrystalline magnesium aluminate spinels. <i>Journal of Science: Advanced Materials and Devices</i> , 2021, 6, 462-471.	3.1	7
80	Fog catcher brushes with environmental friendly slippery alumina micro-needle structured surface for efficient fog-harvesting. <i>Journal of Cleaner Production</i> , 2021, 315, 127862.	9.3	32
81	Simultaneous determination of multiple coupling networks by high-resolution 2D J -edited NMR spectroscopy. <i>Analytica Chimica Acta</i> , 2021, 1185, 339055.	5.4	4
82	A sandwich-like structured superhydrophobic fabric for versatile and highly efficient emulsion separation. <i>Separation and Purification Technology</i> , 2021, 275, 119253.	7.9	22
83	Nanostructured NaFeS_2 as a cost-effective and robust electrocatalyst for hydrogen and oxygen evolution with reduced overpotentials. <i>Chemical Engineering Journal</i> , 2021, 426, 131315.	12.7	20
84	An effective and low-consumption foam finishing strategy for robust functional fabrics with on-demand special wettability. <i>Chemical Engineering Journal</i> , 2021, 426, 131245.	12.7	44
85	<i>In situ</i> recycling of particulate matter for a high-performance supercapacitor and oxygen evolution reaction. <i>Materials Chemistry Frontiers</i> , 2021, 5, 2742-2748.	5.9	1
86	Highly Efficient Determination of Complex NMR Multiplet Structures in Inhomogeneous Magnetic Fields. <i>Analytical Chemistry</i> , 2021, 93, 2419-2423.	6.5	3
87	Diffusion Analysis on Complex Mixtures under Adverse Magnetic Field Conditions by Spatially-Selective Pure Shift-Based DOSY. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1073-1080.	4.6	8
88	Improvement in Signal-to-Noise Ratio of Liquid-State NMR Spectroscopy via a Deep Neural Network DN-Unet. <i>Analytical Chemistry</i> , 2021, 93, 1377-1382.	6.5	25
89	Advanced Materials with Special Wettability toward Intelligent Oily Wastewater Remediation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 67-87.	8.0	190
90	Underwater, Multifunctional Superhydrophobic Sensor for Human Motion Detection. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 4740-4749.	8.0	63

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91	A General Reconstruction Method for Multidimensional Sparse Sampling Nuclear Magnetic Resonance Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 10622-10630.	4.6	4
92	Preparation of superhydrophobic nanoplate iron oxide surface on a carbon steel for anti-wetting applications. <i>Materials and Design</i> , 2021, 211, 110169.	7.0	10
93	Robust Superhydrophobic rGO/PPy/PDMS Coatings on a Polyurethane Sponge for Underwater Pressure and Temperature Sensing. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53271-53281.	8.0	51
94	An environmentally friendly fluorine-free sandwich coating based on a nonwoven fabric for efficient unidirectional water transport. <i>Chemical Communications</i> , 2021, 57, 12623-12626.	4.1	8
95	Elucidating the sources of activity and stability of FeP electrocatalyst for hydrogen evolution reactions in acidic and alkaline media. <i>Applied Catalysis B: Environmental</i> , 2020, 260, 118156.	20.2	74
96	Durable easy-cleaning and antibacterial cotton fabrics using fluorine-free silane coupling agents and CuO nanoparticles. <i>Nano Materials Science</i> , 2020, 2, 281-291.	8.8	39
97	TiO ₂ nanotube arrays decorated with Au and Bi ₂ S ₃ nanoparticles for efficient Fe ³⁺ ions detection and dye photocatalytic degradation. <i>Journal of Materials Science and Technology</i> , 2020, 39, 28-38.	10.7	32
98	Mechanistic Study of Monolayer NiP ₂ (100) toward Solar Hydrogen Production. <i>Solar Rrl</i> , 2020, 4, 1900360.	5.8	8
99	Atomistic simulation study of GO/HKUST-1 MOF membranes for seawater desalination via pervaporation. <i>Applied Surface Science</i> , 2020, 503, 144198.	6.1	48
100	A "PDMS-in-water" emulsion enables mechanochemically robust superhydrophobic surfaces with self-healing nature. <i>Nanoscale Horizons</i> , 2020, 5, 65-73.	8.0	193
101	Highly efficient visible-light-driven photocatalytic hydrogen evolution by all-solid-state Z-scheme CdS/QDs/ZnIn ₂ S ₄ architectures with MoS ₂ quantum dots as solid-state electron mediator. <i>Applied Surface Science</i> , 2020, 504, 144406.	6.1	61
102	Accelerated Nuclear Magnetic Resonance Spectroscopy with Deep Learning. <i>Angewandte Chemie</i> , 2020, 132, 10383-10386.	2.0	28
103	Accelerated Nuclear Magnetic Resonance Spectroscopy with Deep Learning. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10297-10300.	13.8	88
104	Constructing Mechanochemical Durable and Self-Healing Superhydrophobic Surfaces. <i>ACS Omega</i> , 2020, 5, 986-994.	3.5	79
105	First-principles investigation of the electronic properties of the Bi ₂ O ₄ (101)/BiVO ₄ (010) heterojunction towards more efficient solar water splitting. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2449-2456.	2.8	18
106	Progress on particulate matter filtration technology: basic concepts, advanced materials, and performances. <i>Nanoscale</i> , 2020, 12, 437-453.	5.6	145
107	An experimental and theoretical approach to investigate correlation between electromagnetic properties of doped ferrites & its interfacial reactivity with dopamine. <i>Applied Surface Science</i> , 2020, 506, 144945.	6.1	3
108	A semi-interpenetrating network ionic hydrogel for strain sensing with high sensitivity, large strain range, and stable cycle performance. <i>Chemical Engineering Journal</i> , 2020, 385, 123912.	12.7	128

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109	Enhanced tensile properties and corrosion resistance of stainless steel with copper-coated graphene fillers. <i>Journal of Materials Research and Technology</i> , 2020, 9, 404-412.	5.8	5
110	Porous cobalt@N-doped carbon derived from chitosan for oxidative esterification of 5-Hydroxymethylfurfural: The roles of zinc in the synthetic and catalytic process. <i>Molecular Catalysis</i> , 2020, 482, 110695.	2.0	21
111	Metal-organic frameworks and their derivatives with graphene composites: preparation and applications in electrocatalysis and photocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2934-2961.	10.3	170
112	SiBCN ceramic aerogel/graphene composites prepared via sol-gel infiltration process and polymer-derived ceramics (PDCs) route. <i>Ceramics International</i> , 2020, 46, 7001-7008.	4.8	18
113	High-Resolution Reconstruction for Diffusion-Ordered NMR Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 634-639.	6.5	13
114	Clarifying the Correlation of Ice Adhesion Strength with Water Wettability and Surface Characteristics. <i>Langmuir</i> , 2020, 36, 12190-12201.	3.5	8
115	Ag-Sn Transient Liquid Phase Bonding for High Temperature Electronic Packaging: Effect of Ag Content. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2020, 10, 1604-1610.	2.5	2
116	Bimetallic Ni-Co nanoparticles on SiO ₂ as robust catalyst for CO methanation: Effect of homogeneity of Ni-Co alloy. <i>Applied Catalysis B: Environmental</i> , 2020, 278, 119307.	20.2	58
117	Microencapsulated phase change materials composited Al ₂ O ₃ -SiO ₂ aerogel and the thermal regulation properties. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 96, 627-635.	2.4	9
118	Silicon-Based Anode Materials: Mechanically Reinforced Localized Structure Design to Stabilize Solid-Electrolyte Interface of the Composited Electrode of Si Nanoparticles and TiO ₂ Nanotubes (Small 30/2020). <i>Small</i> , 2020, 16, 2070169.	10.0	0
119	Hydrophobization of fully bio-based epoxy polymers using water as solvent: Effect of additives. <i>European Polymer Journal</i> , 2020, 140, 110043.	5.4	9
120	Sol-gel synthesis of highly reproducible WO ₃ photoanodes for solar water oxidation. <i>Science China Materials</i> , 2020, 63, 2261-2271.	6.3	12
121	Improving efficiency of measuring individual 1H coupling networks by pure shift 2D ¹ H-resolved NMR spectroscopy. <i>Journal of Chemical Physics</i> , 2020, 153, 174114.	3.0	5
122	Immobilization of well-dispersed Ag nanoparticles on calcium niobate nanosheets as highly active catalyst towards reduction of 4-nitrophenol. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 110, 92-99.	5.3	12
123	Boosting resolution in NMR spectroscopy by chemical shift upscaling. <i>Analytica Chimica Acta</i> , 2020, 1110, 109-114.	5.4	2
124	NaFeS ₂ as a new photocatalytic material for the degradation of industrial dyes. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104005.	6.7	35
125	Effect of punching edge deformation on the magnetic properties of Fe ₄₉ -Co ₄₉ -V ₂ alloy. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 510, 166978.	2.3	2
126	Enhanced BiFeO ₃ /Bi ₂ Fe ₄ O ₉ /H ₂ O ₂ heterogeneous system for sulfamethoxazole decontamination: System optimization and degradation pathways. <i>Journal of Colloid and Interface Science</i> , 2020, 577, 54-65.	9.4	43

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127	Titanium mesh-supported TiO ₂ nano-film for the photocatalytic degradation of ethylene under a UV-LED. <i>Ceramics International</i> , 2020, 46, 20830-20837.	4.8	13
128	A transparent superhydrophobic coating with mechanochemical robustness for anti-icing, photocatalysis and self-cleaning. <i>Chemical Engineering Journal</i> , 2020, 399, 125746.	12.7	264
129	Influence of Hole Transport Layers/Perovskite Interfaces on the Hysteresis Behavior of Inverted Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 6391-6399.	5.1	9
130	Mechanically Reinforced Localized Structure Design to Stabilize Solid-Electrolyte Interface of the Compositated Electrode of Si Nanoparticles and TiO ₂ Nanotubes. <i>Small</i> , 2020, 16, e2002094.	10.0	41
131	Rapid and Stable Plasma Transformation of Polyester Fabrics for Highly Efficient Oil-Water Separation. <i>Global Challenges</i> , 2020, 4, 1900095.	3.6	9
132	NMR Relaxation Measurements on Complex Samples Based on Real-Time Pure Shift Techniques. <i>Molecules</i> , 2020, 25, 473.	3.8	3
133	Oxygen Evolution Reaction Kinetics: Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the Microparticles Spider Web Electrode Configurations (<i>Small</i> 8/2020). <i>Small</i> , 2020, 16, 2070041.	10.0	1
134	Preparation of phase change microcapsules-aerogels composites and the enhanced thermal properties. <i>Materials Letters</i> , 2020, 268, 127563.	2.6	7
135	Vertically-aligned Pt-decorated MoS ₂ nanosheets coated on TiO ₂ nanotube arrays enable high-efficiency solar-light energy utilization for photocatalysis and self-cleaning SERS devices. <i>Nano Energy</i> , 2020, 71, 104579.	16.0	92
136	Preparation of Janus Titanium Dioxide Particles via Ultraviolet Irradiation of Pickering Emulsions. <i>Advanced Materials Interfaces</i> , 2020, 7, 1901961.	3.7	11
137	Reducing Oxygen Evolution Reaction Overpotential in Cobalt-Based Electrocatalysts via Optimizing the Microparticles Spider Web Electrode Configurations. <i>Small</i> , 2020, 16, e1907029.	10.0	34
138	Janus-like particles prepared through partial UV irradiation at the water/oil interface and their encapsulation capabilities. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 589, 124460.	4.7	8
139	Fully Exploiting the Power of 2D NMR-Resolved Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 6893-6899.	6.5	6
140	Nanostructured TiO ₂ for light-driven CO ₂ conversion into solar fuels. <i>APL Materials</i> , 2020, 8, .	5.1	22
141	Facile fabrication of Fe-doped Si-C-N ceramic microspheres with flower-like morphology and the infrared extinction property. <i>Journal of Sol-Gel Science and Technology</i> , 2020, 94, 461-467.	2.4	8
142	Charged graphene aerogel filter enabled superior particulate matter removal efficiency in harsh environment. <i>Chemical Engineering Journal</i> , 2020, 395, 125086.	12.7	53
143	NMR Spectroelectrochemistry in Studies of Dopamine Oxidation. <i>Electrochemistry</i> , 2020, 88, 200-204.	1.4	8
144	Rapid Plasma Preparation of Superhydrophobic Polyester Fabrics for Highly Efficient Oil-Water Separation. , 2020, , .		0

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