

Zheng Ling

List of Publications by Year in descending order

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67
papers

8,333
citations

117625

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85541

71
g-index

73
all docs

73
docs citations

73
times ranked

10427
citing authors

#	ARTICLE	IF	CITATIONS
1	Flexible and conductive MXene films and nanocomposites with high capacitance. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16676-16681.	7.1	1,713
2	Flexible MXene/Carbon Nanotube Composite Paper with High Volumetric Capacitance. Advanced Materials, 2015, 27, 339-345.	21.0	1,125
3	Charge- and Size-Selective Ion Sieving Through Ti_3C_2Tx MXene Membranes. Journal of Physical Chemistry Letters, 2015, 6, 4026-4031.	4.6	743
4	Electroactive edge site-enriched nickel-cobalt sulfide into graphene frameworks for high-performance asymmetric supercapacitors. Energy and Environmental Science, 2016, 9, 1299-1307.	30.8	623
5	Sustainable Synthesis and Assembly of Biomass-Derived B/N Co-Doped Carbon Nanosheets with Ultrahigh Aspect Ratio for High-Performance Supercapacitors. Advanced Functional Materials, 2016, 26, 111-119.	14.9	607
6	A Layered-Nanospace-Confinement Strategy for the Synthesis of Two-Dimensional Porous Carbon Nanosheets for High-Rate Performance Supercapacitors. Advanced Energy Materials, 2015, 5, 1401761.	19.5	308
7	2D titanium carbide and transition metal oxides hybrid electrodes for Li-ion storage. Nano Energy, 2016, 30, 603-613.	16.0	293
8	Hierarchical activated carbon nanofiber webs with tuned structure fabricated by electrospinning for capacitive deionization. Journal of Materials Chemistry, 2012, 22, 21819.	6.7	215
9	Facile fabrication of MWCNT-doped NiCoAl-layered double hydroxide nanosheets with enhanced electrochemical performances. Journal of Materials Chemistry A, 2013, 1, 1963-1968.	10.3	193
10	Hydrothermal synthesis and activation of graphene-incorporated nitrogen-rich carbon composite for high-performance supercapacitors. Carbon, 2014, 70, 130-141.	10.3	171
11	Boric acid-mediated B,N-codoped chitosan-derived porous carbons with a high surface area and greatly improved supercapacitor performance. Nanoscale, 2015, 7, 5120-5125.	5.6	151
12	Analyzing the effects of inhomogeneity on the permeability of porous media containing methane hydrates through pore network models combined with CT observation. Energy, 2018, 163, 27-37.	8.8	123
13	Hydrothermal Synthesis of Phosphate-Functionalized Carbon Nanotube-Containing Carbon Composites for Supercapacitors with Highly Stable Performance. ACS Applied Materials & Interfaces, 2013, 5, 2104-2110.	8.0	107
14	Synthesis of Carbon/Sulfur Nanolaminates by Electrochemical Extraction of Titanium from Ti_2SC . Angewandte Chemie - International Edition, 2015, 54, 4810-4814.	13.8	100
15	Synthesis of a carbon nanofiber/carbon foam composite from coal liquefaction residue for the separation of oil and water. Carbon, 2013, 59, 530-536.	10.3	99
16	Ultrasound-assisted preparation of electrospun carbon nanofiber/graphene composite electrode for supercapacitors. Journal of Power Sources, 2013, 243, 350-353.	7.8	92
17	Liquid Exfoliated $Co(OH)_2$ Nanosheets as Low-Cost, Yet High-Performance, Catalysts for the Oxygen Evolution Reaction. Advanced Energy Materials, 2018, 8, 1702965.	19.5	92
18	Lightweight carbon foam from coal liquefaction residue with broad-band microwave absorbing capability. Carbon, 2016, 105, 224-226.	10.3	86

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19	Freestanding Ti ₃ C ₂ MXene/Prussian Blue Analogues Films with Superior Ion Uptake for Efficient Capacitive Deionization by a Dual Pseudocapacitance Effect. ACS Nano, 2022, 16, 1239-1249.	14.6	84
20	Promotion of hydrate-based CO ₂ capture from flue gas by additive mixtures (THF) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 702 Id ((tetrahy	8.8	82
21	Free-standing, hierarchically porous carbon nanotube film as a binder-free electrode for high-energy Liâ€‘O ₂ batteries. Journal of Materials Chemistry A, 2013, 1, 12033.	10.3	78
22	Sulfonated Graphene as Cationâ€‘Selective Coating: A New Strategy for Highâ€‘Performance Membrane Capacitive Deionization. Advanced Materials Interfaces, 2015, 2, 1500372.	3.7	75
23	The Controlling Factors and Ion Exclusion Mechanism of Hydrate-Based Pollutant Removal. ACS Sustainable Chemistry and Engineering, 2019, 7, 7932-7940.	6.7	68
24	Experimental study on the gas phase permeability of methane hydrate-bearing clayey sediments. Journal of Natural Gas Science and Engineering, 2016, 36, 378-384.	4.4	64
25	Freeze-drying for sustainable synthesis of nitrogen doped porous carbon cryogel with enhanced supercapacitor and lithium ion storage performance. Nanotechnology, 2015, 26, 374003.	2.6	63
26	Enhanced Electrochemical Performance of Hydrous RuO ₂ /Mesoporous Carbon Nanocomposites via Nitrogen Doping. ACS Applied Materials & Interfaces, 2014, 6, 9751-9759.	8.0	59
27	Three-body aggregation of guest molecules as a key step in methane hydrate nucleation and growth. Communications Chemistry, 2022, 5, .	4.5	58
28	Assessment of gas production from natural gas hydrate using depressurization, thermal stimulation and combined methods. RSC Advances, 2016, 6, 47357-47367.	3.6	56
29	Post-combustion CO ₂ capture and separation in flue gas based on hydrate technology: A review. Renewable and Sustainable Energy Reviews, 2022, 154, 111806.	16.4	52
30	Magnetically recoverable Ni/C catalysts with hierarchical structure and high-stability for selective hydrogenation of nitroarenes. Physical Chemistry Chemical Physics, 2015, 17, 145-150.	2.8	48
31	Carbon foams made of in situ produced carbon nanocapsules and the use as a catalyst for oxidative dehydrogenation of ethylbenzene. Carbon, 2013, 60, 514-522.	10.3	42
32	Hydrate-based heavy metal separation from aqueous solution. Scientific Reports, 2016, 6, 21389.	3.3	42
33	Water permeability in MXene membranes: Process matters. Chinese Chemical Letters, 2020, 31, 1665-1669.	9.0	39
34	Promotion effect of graphite on cyclopentane hydrate based desalination. Desalination, 2018, 445, 197-203.	8.2	36
35	Enhanced photocatalytic degradation of perfluorooctanoic acid by Ti ₃ C ₂ MXene-derived heterojunction photocatalyst: Application of intercalation strategy in DESs. Science of the Total Environment, 2020, 746, 141009.	8.0	34
36	H _x MoO ₃ nanobelts with sea water as electrolyte for high-performance pseudocapacitors and desalination devices. Journal of Materials Chemistry A, 2015, 3, 17217-17223.	10.3	33

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37	Quantifying the Role of Nanotubes in Nano:Nano Composite Supercapacitor Electrodes. <i>Advanced Energy Materials</i> , 2018, 8, 1702364.	19.5	33
38	Nitrogen-doped tubular/porous carbon channels implanted on graphene frameworks for multiple confinement of sulfur and polysulfides. <i>Journal of Materials Chemistry A</i> , 2017, 5, 10380-10386.	10.3	32
39	An ionic liquid template approach to graphene-carbon xerogel composites for supercapacitors with enhanced performance. <i>Journal of Materials Chemistry A</i> , 2014, 2, 14329.	10.3	31
40	Study on contact angles and surface energy of MXene films. <i>RSC Advances</i> , 2021, 11, 5512-5520.	3.6	31
41	Desalination and Li ⁺ enrichment via formation of cyclopentane hydrate. <i>Separation and Purification Technology</i> , 2020, 231, 115921.	7.9	29
42	In situ synthesis of chemically active ZIF coordinated with electrospun fibrous film for heavy metal removal with a high flux. <i>Separation and Purification Technology</i> , 2017, 177, 257-262.	7.9	28
43	Ionic liquid as template to synthesize carbon xerogels by coupling with KOH activation for supercapacitors. <i>Electrochemistry Communications</i> , 2013, 31, 31-34.	4.7	24
44	A recyclable route to produce biochar with a tailored structure and surface chemistry for enhanced charge storage. <i>Green Chemistry</i> , 2019, 21, 2095-2103.	9.0	23
45	Enhance methane hydrate formation using fungus confining sodium dodecyl sulfate solutions for methane storage. <i>Journal of Molecular Liquids</i> , 2021, 333, 116020.	4.9	19
46	A pressure core ultrasonic test system for on-board analysis of gas hydrate-bearing sediments under <i>in situ</i> pressures. <i>Review of Scientific Instruments</i> , 2018, 89, 054904.	1.3	16
47	Molecular dynamics simulation and in-situ MRI observation of organic exclusion during CO ₂ hydrate growth. <i>Chemical Physics Letters</i> , 2021, 764, 138287.	2.6	16
48	MXene (Ti ₃ C ₂ T _x) as a Promising Substrate for Methane Storage via Enhanced Gas Hydrate Formation. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 6622-6627.	4.6	14
49	One-pot to fabrication of calcium oxide/carbon foam composites for the adsorption of trace SO ₂ . <i>Chemical Engineering Journal</i> , 2015, 259, 894-899.	12.7	13
50	Some new insights into the synergy occurring during char gasification in CO ₂ /H ₂ O mixtures. <i>Fuel</i> , 2020, 268, 117307.	6.4	11
51	A combined hydrate-based method for removing heavy metals from simulated wastewater with high concentrations. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106633.	6.7	11
52	The promoting effect and mechanisms of oxygen-containing groups on the enhanced formation of methane hydrate for gas storage. <i>Chemical Engineering Journal</i> , 2022, 435, 134917.	12.7	11
53	Desalination of high-salt brine via carbon materials promoted cyclopentane hydrate formation. <i>Desalination</i> , 2022, 534, 115785.	8.2	11
54	Exfoliated vermiculite nanosheets supporting tetraethylenepentamine for CO ₂ capture. <i>Results in Materials</i> , 2020, 7, 100102.	1.8	9

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55	Vermiculite aerogels assembled from nanosheets via metal ion induced fast gelation. <i>Applied Clay Science</i> , 2022, 218, 106431.	5.2	8
56	Hydrate Formation Characteristics during Carbon Dioxide Flow Through Depleted Methane Hydrate Deposits. <i>Energy Technology</i> , 2018, 6, 1186-1195.	3.8	7
57	Promoting and Inhibitory Effects of Hydrophilic/Hydrophobic Modified Aluminum Oxide Nanoparticles on Carbon Dioxide Hydrate Formation. <i>Energies</i> , 2020, 13, 5380.	3.1	7
58	Evolution of effective thermal conductivity during hydrate formation and decomposition in natural sediments. <i>Energy Procedia</i> , 2019, 158, 5825-5831.	1.8	6
59	Experimental Investigations on Thermal Transport Properties of Nanoscale-Graphite-Film. <i>Journal of Thermal Science</i> , 2022, 31, 1008-1015.	1.9	6
60	Flower-Like Co-Ni/C Bimetallic Catalysts for the Selective Hydrogenation of o-Chloronitrobenzene. <i>Chinese Journal of Catalysis</i> , 2012, 33, 1883-1888.	14.0	5
61	Desalination and enrichment of phosphorus-containing wastewater via cyclopentane hydrate. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105507.	6.7	5
62	Investigating the synergistic initiating effect on promoting methane hydrate formation via mixed graphene and sodium cholate. <i>Journal of Molecular Liquids</i> , 2022, 349, 118134.	4.9	5
63	Synthesis and structure of carbon belts made of carbon nanofibers supported on carbon foams. <i>Carbon</i> , 2013, 61, 386-394.	10.3	4
64	Cyclopentane hydrate-based processes for treating heavy metal containing wastewater. <i>E3S Web of Conferences</i> , 2019, 118, 04039.	0.5	4
65	Fast Peel-Off Ultrathin, Transparent, and Free-Standing Films Assembled from Low-Dimensional Materials Using MXene Sacrificial Layers and Produced Bubbles. <i>Small Methods</i> , 2021, , 2101388.	8.6	3
66	Hydrate-based desalination process enhanced via graphite. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 295, 042028.	0.3	2
67	Graphene: Sulfonated Graphene as Cation-Selective Coating: A New Strategy for High-Performance Membrane Capacitive Deionization (<i>Adv. Mater. Interfaces</i> 16/2015). <i>Advanced Materials Interfaces</i> , 2015, 2, .	3.7	0