

Qilei Song

List of Publications by Year in descending order

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48
papers

4,825
citations

147566

31
h-index

205818

48
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49
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49
docs citations

49
times ranked

5375
citing authors

#	ARTICLE	IF	CITATIONS
1	Zeolitic imidazolate framework (ZIF-8) based polymer nanocomposite membranes for gas separation. <i>Energy and Environmental Science</i> , 2012, 5, 8359.	15.6	627
2	Polymer nanofilms with enhanced microporosity by interfacial polymerization. <i>Nature Materials</i> , 2016, 15, 760-767.	13.3	594
3	Enhanced selectivity in mixed matrix membranes for CO ₂ capture through efficient dispersion of amine-functionalized MOF nanoparticles. <i>Nature Energy</i> , 2017, 2, .	19.8	428
4	Porous Organic Cage Thin Films and Molecular Sieving Membranes. <i>Advanced Materials</i> , 2016, 28, 2629-2637.	11.1	275
5	Controlled thermal oxidative crosslinking of polymers of intrinsic microporosity towards tunable molecular sieve membranes. <i>Nature Communications</i> , 2014, 5, 4813.	5.8	252
6	Chemical-Looping Combustion of Biomass in a 10 kW _{th} Reactor with Iron Oxide As an Oxygen Carrier. <i>Energy & Fuels</i> , 2009, 23, 2498-2505.	2.5	237
7	Hydrophilic microporous membranes for selective ion separation and flow-battery energy storage. <i>Nature Materials</i> , 2020, 19, 195-202.	13.3	237
8	Size-Dependent Photon Emission from Organometal Halide Perovskite Nanocrystals Embedded in an Organic Matrix. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 446-450.	2.1	160
9	Sulfonated Microporous Polymer Membranes with Fast and Selective Ion Transport for Electrochemical Energy Conversion and Storage. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 9564-9573.	7.2	145
10	Pressurized chemical-looping combustion of coal with an iron ore-based oxygen carrier. <i>Combustion and Flame</i> , 2010, 157, 1140-1153.	2.8	141
11	In situ NMR metrology reveals reaction mechanisms in redox flow batteries. <i>Nature</i> , 2020, 579, 224-228.	13.7	132
12	Photo-oxidative enhancement of polymeric molecular sieve membranes. <i>Nature Communications</i> , 2013, 4, 1918.	5.8	117
13	A high performance oxygen storage material for chemical looping processes with CO ₂ capture. <i>Energy and Environmental Science</i> , 2013, 6, 288-298.	15.6	112
14	Chemical-looping combustion of methane with CaSO ₄ oxygen carrier in a fixed bed reactor. <i>Energy Conversion and Management</i> , 2008, 49, 3178-3187.	4.4	108
15	Effect of Temperature on Reduction of CaSO ₄ Oxygen Carrier in Chemical-Looping Combustion of Simulated Coal Gas in a Fluidized Bed Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 8148-8159.	1.8	89
16	Multicycle Study on Chemical-Looping Combustion of Simulated Coal Gas with a CaSO ₄ Oxygen Carrier in a Fluidized Bed Reactor. <i>Energy & Fuels</i> , 2008, 22, 3661-3672.	2.5	86
17	Numerical simulation of chemical looping combustion process with CaSO ₄ oxygen carrier. <i>International Journal of Greenhouse Gas Control</i> , 2009, 3, 368-375.	2.3	78
18	Catalytic Conversion of Bio-ethanol to Ethylene over La-Modified HZSM-5 Catalysts in a Bioreactor. <i>Catalysis Letters</i> , 2009, 132, 64-74.	1.4	76

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19	Pressurized Chemical-Looping Combustion of Chinese Bituminous Coal: Cyclic Performance and Characterization of Iron Ore-Based Oxygen Carrier. <i>Energy & Fuels</i> , 2010, 24, 1449-1463.	2.5	73
20	Nanofiller-tuned microporous polymer molecular sieves for energy and environmental processes. <i>Journal of Materials Chemistry A</i> , 2016, 4, 270-279.	5.2	69
21	Computational Fluid Dynamics Modeling of Coal Gasification in a Pressurized Spout-Fluid Bed. <i>Energy & Fuels</i> , 2008, 22, 1560-1569.	2.5	64
22	Multiphase CFD Modeling for a Chemical Looping Combustion Process (Fuel Reactor). <i>Chemical Engineering and Technology</i> , 2008, 31, 1754-1766.	0.9	62
23	Regulating the aqueous phase monomer balance for flux improvement in polyamide thin film composite membranes. <i>Journal of Membrane Science</i> , 2015, 487, 74-82.	4.1	62
24	Development of efficient aqueous organic redox flow batteries using ion-sieving sulfonated polymer membranes. <i>Nature Communications</i> , 2022, 13, .	5.8	58
25	Characterization and kinetics of reduction of CaSO ₄ with carbon monoxide for chemical-looping combustion. <i>Combustion and Flame</i> , 2011, 158, 2524-2539.	2.8	55
26	Low-cost hydrocarbon membrane enables commercial-scale flow batteries for long-duration energy storage. <i>Joule</i> , 2022, 6, 884-905.	11.7	53
27	Catalytic Carbon Dioxide Reforming of Methane to Synthesis Gas over Activated Carbon Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 4349-4357.	1.8	48
28	Use of Coal as Fuel for Chemical-Looping Combustion with Ni-Based Oxygen Carrier. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 9279-9287.	1.8	45
29	The production of separate streams of pure hydrogen and carbon dioxide from coal via an iron-oxide redox cycle. <i>Chemical Engineering Journal</i> , 2011, 166, 1052-1060.	6.6	38
30	Reactivity of a CaSO ₄ -oxygen carrier in chemical-looping combustion of methane in a fixed bed reactor. <i>Korean Journal of Chemical Engineering</i> , 2009, 26, 592-602.	1.2	37
31	Oriented Two-Dimensional Porous Organic Cage Crystals. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 9391-9395.	7.2	33
32	pH-induced reversal of ionic diode polarity in 300 nm thin membranes based on a polymer of intrinsic microporosity. <i>Electrochemistry Communications</i> , 2016, 69, 41-45.	2.3	30
33	Triphasic Nature of Polymers of Intrinsic Microporosity Induces Storage and Catalysis Effects in Hydrogen and Oxygen Reactivity at Electrode Surfaces. <i>ChemElectroChem</i> , 2019, 6, 252-259.	1.7	30
34	Comparison of the ionic conductivity properties of microporous and mesoporous MOFs infiltrated with a Na-ion containing IL mixture. <i>Dalton Transactions</i> , 2020, 49, 15914-15924.	1.6	20
35	Sulfonated Microporous Polymer Membranes with Fast and Selective Ion Transport for Electrochemical Energy Conversion and Storage. <i>Angewandte Chemie</i> , 2020, 132, 9651-9660.	1.6	20
36	Hydrodynamics of a Novel Biomass Autothermal Fast Pyrolysis Reactor: Flow Pattern and Pressure Drop. <i>Chemical Engineering and Technology</i> , 2009, 32, 27-37.	0.9	17

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37	Co-precipitated Cu-Mn mixed metal oxides as oxygen carriers for chemical looping processes. <i>Chemical Engineering Journal</i> , 2021, 407, 127093.	6.6	16
38	Thin, Flexible Supercapacitors Made from Carbon Nanofiber Electrodes Decorated at Room Temperature with Manganese Oxide Nanosheets. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	1.5	15
39	A cost-effective alkaline polysulfide-air redox flow battery enabled by a dual-membrane cell architecture. <i>Nature Communications</i> , 2022, 13, 2388.	5.8	15
40	Free Volume, Molecular Mobility and Polymer Structure: Towards the Rational Design of Multi-Functional Materials. <i>Acta Physica Polonica A</i> , 2014, 125, 801-805.	0.2	14
41	Oriented Two-dimensional Porous Organic Cage Crystals. <i>Angewandte Chemie</i> , 2017, 129, 9519-9523.	1.6	13
42	Computational Fluid Dynamics Modeling of Chemical Looping Combustion Process with Calcium Sulphate Oxygen Carrier. <i>International Journal of Chemical Reactor Engineering</i> , 2009, 7, .	0.6	12
43	Computational Evaluation of the Diffusion Mechanisms for C8 Aromatics in Porous Organic Cages. <i>Journal of Physical Chemistry C</i> , 2019, 123, 21011-21021.	1.5	11
44	Biomimetic water channels: general discussion. <i>Faraday Discussions</i> , 2018, 209, 205-229.	1.6	10
45	Applications to water transport systems: general discussion. <i>Faraday Discussions</i> , 2018, 209, 389-414.	1.6	4
46	The modelling and enhancement of water hydrodynamics: general discussion. <i>Faraday Discussions</i> , 2018, 209, 273-285.	1.6	2
47	Molecular Sieves: Porous Organic Cage Thin Films and Molecular Sieving Membranes (<i>Adv. Mater.</i>) Tj ETQq1 1 0.784314 rgBT /Over	11.1	1
48	High Performance Ordered Nanoporous Membranes from Block Copolymers. <i>Procedia Engineering</i> , 2012, 44, 632-633.	1.2	0