

Liyan Liu

List of Publications by Year in descending order

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63
papers

878
citations

430442

18
h-index

552369

26
g-index

63
all docs

63
docs citations

63
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of thermal treatment on physical and expression dewatering characteristics of municipal sludge. <i>Chemical Engineering Journal</i> , 2014, 247, 223-230.	6.6	57
2	The influence of air content in water on ultrasonic cavitation field. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 566-571.	3.8	51
3	Effect of Thermal Hydrolysis on Rheological Behavior of Municipal Sludge. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 11185-11192.	1.8	51
4	Thermal and kinetic analyzing of pyrolysis and combustion of self-heating biomass particles. <i>Chemical Engineering Research and Design</i> , 2021, 151, 39-50.	2.7	47
5	Ultrasound-assisted oxidation of dibenzothiophene with phosphotungstic acid supported on activated carbon. <i>Ultrasonics Sonochemistry</i> , 2014, 21, 970-974.	3.8	42
6	Effects and Mechanism Research of the Desilication Pretreatment for High-Aluminum Fly Ash. <i>Energy & Fuels</i> , 2013, 27, 6948-6954.	2.5	37
7	Gasoline fire extinguishing by 0.7 MPa water mist with multicomponent additives driven by CO ₂ . <i>Chemical Engineering Research and Design</i> , 2019, 129, 168-175.	2.7	32
8	Degradation of Acid Red 73 by Activated Persulfate in a Heat/Fe ₃ O ₄ @AC System with Ultrasound Intensification. <i>ACS Omega</i> , 2020, 5, 13739-13750.	1.6	32
9	Experimental and numerical study of ammonia leakage and dispersion in a food factory. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 47, 129-139.	1.7	28
10	Insight into hydrogen bonds and characterization of interlayer spacing of hydrated graphene oxide. <i>Journal of Molecular Modeling</i> , 2018, 24, 137.	0.8	27
11	A three-dimensional NiCo-LDH array modified halloysite nanotube composite for high-performance battery-type supercapacitor. <i>Journal of Alloys and Compounds</i> , 2021, 884, 161162.	2.8	27
12	Ultrasound field distribution and ultrasonic oxidation desulfurization efficiency. <i>Ultrasonics Sonochemistry</i> , 2013, 20, 696-702.	3.8	23
13	Experimental and Numerical Study of the Solid Concentration Distribution in a Horizontal Screw Decanter Centrifuge. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 17249-17256.	1.8	22
14	Three-dimensional electrode design with conductive fibers and ordered macropores for enhanced capacitive deionization performance. <i>Desalination</i> , 2021, 498, 114794.	4.0	22
15	Numerical simulation of water curtain application for ammonia release dispersion. <i>Journal of Loss Prevention in the Process Industries</i> , 2014, 30, 105-112.	1.7	21
16	Dispersion of carbon dioxide plume in street canyons. <i>Chemical Engineering Research and Design</i> , 2018, 116, 235-242.	2.7	20
17	Research on maximum explosion overpressure in LNG storage tank areas. <i>Journal of Loss Prevention in the Process Industries</i> , 2017, 49, 162-170.	1.7	19
18	Dewatering of drilling sludge by ultrasound assisted Fe(II)-activated persulfate oxidation. <i>RSC Advances</i> , 2018, 8, 29756-29766.	1.7	19

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19	Geometric effect of buildings on the dispersion of carbon dioxide cloud in idealized urban street canyons. <i>Chemical Engineering Research and Design</i> , 2019, 122, 271-280.	2.7	19
20	Experimental and numerical study on the dispersion of heavy gases in urban environments. <i>Chemical Engineering Research and Design</i> , 2018, 116, 640-653.	2.7	18
21	Accident consequence calculation of ammonia dispersion in factory area. <i>Journal of Loss Prevention in the Process Industries</i> , 2020, 67, 104271.	1.7	18
22	Effects of Solvent Molecules on the Interlayer Spacing of Graphene Oxide. <i>Transactions of Tianjin University</i> , 2018, 24, 555-562.	3.3	16
23	Rheological Behavior of High Concentrated Dispersions of Graphite Oxide. <i>Soft Materials</i> , 2015, 13, 167-175.	0.8	13
24	Suppression of methane/air explosion by water mist with potassium halide additives driven by CO ₂ . <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 2742-2748.	1.7	13
25	Hydrodynamic separation by changing equilibrium positions in contraction–expansion array channels. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	13
26	Experimental study of liquefied gas dynamic leakage behavior from a pressurized vessel. <i>Chemical Engineering Research and Design</i> , 2021, 151, 20-27.	2.7	13
27	Influence of Na ⁺ , K ⁺ , Mg ²⁺ , Ca ²⁺ , and Fe ³⁺ on filterability and settleability of drilling sludge. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 658-664.	1.7	12
28	A Dean-flow-coupled interfacial viscoelastic fluid for microparticle separation applied in a cell smear method. <i>Analyst</i> , 2019, 144, 5934-5946.	1.7	12
29	Synthesis and characterization of phosphotungstic acid/activated carbon as a novel ultrasound oxidative desulfurization catalyst. <i>Frontiers of Chemical Science and Engineering</i> , 2013, 7, 422-427.	2.3	11
30	Optimization Study of Municipal Sludge Conditioning, Filtering, and Expressing Dewatering by Partial Least Squares Regression. <i>Drying Technology</i> , 2014, 32, 841-850.	1.7	11
31	Effects and mechanism research of the crystalline state for the semi-crystalline calcium silicate. <i>Cement and Concrete Research</i> , 2015, 72, 69-75.	4.6	9
32	Improved dewaterability of drilling waste sludge by ultrasonic and potassium permanganate co-treatment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106356.	3.3	9
33	Separation of exfoliated tumor cells from viscoelastic pleural effusion using a microfluidic sandwich structure. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 5513-5523.	1.9	8
34	Esterification of free fatty acids in waste cooking oil by heterogeneous catalysts. <i>Transactions of Tianjin University</i> , 2014, 20, 266-272.	3.3	7
35	The rheological behavior of graphite oxide/cationic polyacrylamide suspensions. <i>RSC Advances</i> , 2016, 6, 102938-102946.	1.7	7
36	Nitrate contamination in a coastal soil and water system: A case study after the Tianjin Port 8·12 explosion, China. <i>Human and Ecological Risk Assessment (HERA)</i> , 2019, 25, 2017-2031.	1.7	7

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37	Comprehensive investigation and mechanisms of drilling waste sludge dewaterability by Fe(â€¦)/persulfate pretreatment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106751.	3.3	7
38	Isobaric vaporâ€“liquidâ€“liquid equilibrium for water+cyclohexane+acetic acid at 101.3kPa. <i>Fluid Phase Equilibria</i> , 2013, 350, 32-36.	1.4	6
39	A modified steady-state model for evaluation of ammonia concentrations behind a water curtain. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 36, 120-124.	1.7	6
40	Optimization of operating conditions in the purification of graphite oxide dispersions. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 3251-3257.	1.2	6
41	Desalination of graphite oxide by electrodialysis. <i>Desalination</i> , 2016, 385, 53-57.	4.0	6
42	A visible coalescence of droplets on hydrophobic and hydrophilic fibers in water-in-oil emulsion. <i>Journal of Dispersion Science and Technology</i> , 2017, 38, 1719-1725.	1.3	6
43	Effect of the third body layer formed at different temperature on fretting wear behavior of 316 stainless steel in the composite fretting motion of slip and impact. <i>Wear</i> , 2022, 492-493, 204220.	1.5	6
44	Optimal Design of the Accelerator Disk in a Two-Stage Piston Pusher Centrifuge Using Numerical Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 4632-4642.	1.8	5
45	Fluid Excitation Forces on a Tightly Packed Tube Bundle Subjected in Cross-Flow. <i>Journal of Pressure Vessel Technology</i> , <i>Transactions of the ASME</i> , 2017, 139, .	0.4	5
46	Migration of Cr2O 7 2- and Butanone in Soil and Groundwater System After the Tianjin Port 8Âˆ12 Explosion. <i>Transactions of Tianjin University</i> , 2018, 24, 522-531.	3.3	5
47	Effect of cetyl trimethyl ammonium bromide on shrinkage cracks in filter cakes during pressure filtration of iron ore concentrates. <i>Powder Technology</i> , 2016, 297, 239-246.	2.1	4
48	Simulating multiphase flow in a two-stage pusher centrifuge using computational fluid dynamics. <i>Frontiers of Chemical Science and Engineering</i> , 2012, 6, 329-338.	2.3	3
49	Liquid Seepage in Coal Granular-Type Porous Medium. <i>ACS Omega</i> , 2020, 5, 20321-20334.	1.6	3
50	Self-Sustaining Smoldering Characteristics of Corn Straw Powder Stacks. <i>ACS Omega</i> , 2021, 6, 9928-9939.	1.6	3
51	The Fluid Elastic Instability of Concentric Arrays of Tube Bundles Subjected on Cross Flow. , 2018, , .		2
52	Experimental research and simulation of two-phase plume for R134a release and diffusion. <i>Journal of Loss Prevention in the Process Industries</i> , 2022, 75, 104678.	1.7	2
53	Density and surface tension of binary mixtures of 1, 2-propylene glycol and glycerol under atmospheric pressure from 303.15 K to 393.15 K and correlating with the Jouybanâ€“Acree model. <i>Physics and Chemistry of Liquids</i> , 2022, 60, 682-695.	0.4	2
54	Indicator of percolation transition in graphite oxide suspension containing cations. <i>Korean Journal of Chemical Engineering</i> , 0, , 1.	1.2	2

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55	Isobaric Vapor-Liquid Equilibrium for Binary Systems of Toluene + Acrylic Acid, Toluene + Acetic Acid, and Cyclohexane + Acrylic Acid at 20 kPa. Journal of Chemical & Engineering Data, 2011, 56, 3914-3919.	1.0	1
56	Numerical study on the initial expansion of two-phase cloud from an instantaneous release. Journal of Loss Prevention in the Process Industries, 2012, 25, 989-992.	1.7	1
57	Isobaric Vapor-Liquid-Liquid Equilibrium for Water + Cyclohexane + Acrylic Acid at 200 mmHg. Journal of Chemical & Engineering Data, 2015, 60, 3268-3271.	1.0	1
58	Numerical Simulation on Flow Induced Vibration and Fretting Wear of a Steam Generator. , 2018, , .		1
59	Effects of the Imbibition Ability of Extinguishant in Pulverized Coals. Transactions of Tianjin University, 2019, 25, 45-51.	3.3	1
60	Risk and characteristics analysis of the flow-induced vibration of the dip tube in opposed multi-burner gasifier. Journal of Loss Prevention in the Process Industries, 2021, 71, 104508.	1.7	1
61	Coupled Vibration Research for Cylinders in Heat Exchanger Based on Noncontact-Measurement and Acoustic Fluid-Solid Interaction Simulations. , 2017, , .		0
62	“Relay-mode”-promoting permeation of water-based fire extinguishing agent in granular materials porous media stacks. Chinese Journal of Chemical Engineering, 2022, 47, 98-112.	1.7	0
63	Study on the Simplified Method of Special Supporting Structure for Steam Generator Tubes. , 2018, , .		0