

# Liyan Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

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	“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
2	Experimental research and simulation of two-phase plume for R134a release and diffusion. Journal of Loss Prevention in the Process Industries, 2022, 75, 104678.	1.7	2
3	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. Wear, 2022, 492-493, 204220.	1.5	6
4	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 Jouyban-Acree model. Physics and Chemistry of Liquids, 2022, 60, 682-695.	0.4	2
5	Three-dimensional electrode design with conductive fibers and ordered macropores for enhanced capacitive deionization performance. Desalination, 2021, 498, 114794.	4.0	22
6	Self-Sustaining Smoldering Characteristics of Corn Straw Powder Stacks. ACS Omega, 2021, 6, 9928-9939.	1.6	3
7	Experimental study of liquefied gas dynamic leakage behavior from a pressurized vessel. Chemical Engineering Research and Design, 2021, 151, 20-27.	2.7	13
8	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
9	Thermal and kinetic analyzing of pyrolysis and combustion of self-heating biomass particles. Chemical Engineering Research and Design, 2021, 151, 39-50.	2.7	47
10	A three-dimensional NiCo-LDH array modified halloysite nanotube composite for high-performance battery-type supercapacitor. Journal of Alloys and Compounds, 2021, 884, 161162.	2.8	27
11	Improved dewaterability of drilling waste sludge by ultrasonic and potassium permanganate co-treatment. Journal of Environmental Chemical Engineering, 2021, 9, 106356.	3.3	9
12	Comprehensive investigation and mechanisms of drilling waste sludge dewaterability by Fe(III)/persulfate pretreatment. Journal of Environmental Chemical Engineering, 2021, 9, 106751.	3.3	7
13	Accident consequence calculation of ammonia dispersion in factory area. Journal of Loss Prevention in the Process Industries, 2020, 67, 104271.	1.7	18
14	Liquid Seepage in Coal Granular-Type Porous Medium. ACS Omega, 2020, 5, 20321-20334.	1.6	3
15	Degradation of Acid Red 73 by Activated Persulfate in a Heat/ $Fe^{3+}/O_4$ @AC System with Ultrasound Intensification. ACS Omega, 2020, 5, 13739-13750.	1.6	32
16	Separation of exfoliated tumor cells from viscoelastic pleural effusion using a microfluidic sandwich structure. Analytical and Bioanalytical Chemistry, 2020, 412, 5513-5523.	1.9	8
17	Nitrate contamination in a coastal soil and water system: A case study after the Tianjin Port 8 $\cdot$ 12 explosion, China. Human and Ecological Risk Assessment (HERA), 2019, 25, 2017-2031.	1.7	7
18	Effects of the Imbibition Ability of Extinguishant in Pulverized Coals. Transactions of Tianjin University, 2019, 25, 45-51.	3.3	1

#	ARTICLE	IF	CITATIONS
19	A Dean-flow-coupled interfacial viscoelastic fluid for microparticle separation applied in a cell smear method. <i>Analyst, The</i> , 2019, 144, 5934-5946.	1.7	12
20	Gasoline fire extinguishing by 0.7 MPa water mist with multicomponent additives driven by CO <sub>2</sub> . <i>Chemical Engineering Research and Design</i> , 2019, 129, 168-175.	2.7	32
21	Suppression of methane/air explosion by water mist with potassium halide additives driven by CO <sub>2</sub> . <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 2742-2748.	1.7	13
22	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
23	Hydrodynamic separation by changing equilibrium positions in contraction–expansion array channels. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	1.0	13
24	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
25	Dispersion of carbon dioxide plume in street canyons. <i>Chemical Engineering Research and Design</i> , 2018, 116, 235-242.	2.7	20
26	Migration of Cr <sup>2+</sup> and Butanone in Soil and Groundwater System After the Tianjin Port 8 <sup>12</sup> Explosion. <i>Transactions of Tianjin University</i> , 2018, 24, 522-531.	3.3	5
27	The Fluid Elastic Instability of Concentric Arrays of Tube Bundles Subjected on Cross Flow. , 2018, , .		2
28	Dewatering of drilling sludge by ultrasound assisted Fe(II)-activated persulfate oxidation. <i>RSC Advances</i> , 2018, 8, 29756-29766.	1.7	19
29	Numerical Simulation on Flow Induced Vibration and Fretting Wear of a Steam Generator. , 2018, , .		1
30	Effects of Solvent Molecules on the Interlayer Spacing of Graphene Oxide. <i>Transactions of Tianjin University</i> , 2018, 24, 555-562.	3.3	16
31	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
32	Study on the Simplified Method of Special Supporting Structure for Steam Generator Tubes. , 2018, , .		0
33	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
34	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
35	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
36	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

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37	Influence of Na <sup>+</sup> , K <sup>+</sup> , Mg <sup>2+</sup> , Ca <sup>2+</sup> , and Fe <sup>3+</sup> on filterability and settleability of drilling sludge. Chinese Journal of Chemical Engineering, 2017, 25, 658-664.	1.7	12
38	Coupled Vibration Research for Cylinders in Heat Exchanger Based on Noncontact-Measurement and Acoustic Fluid-Solid Interaction Simulations., 2017, , .		0
39	Effect of cetyl trimethyl ammonium bromide on shrinkage cracks in filter cakes during pressure filtration of iron ore concentrates. Powder Technology, 2016, 297, 239-246.	2.1	4
40	Optimization of operating conditions in the purification of graphite oxide dispersions. Korean Journal of Chemical Engineering, 2016, 33, 3251-3257.	1.2	6
41	The rheological behavior of graphite oxide/cationic polyacrylamide suspensions. RSC Advances, 2016, 6, 102938-102946.	1.7	7
42	Desalination of graphite oxide by electrodialysis. Desalination, 2016, 385, 53-57.	4.0	6
43	Effects and mechanism research of the crystalline state for the semi-crystalline calcium silicate. Cement and Concrete Research, 2015, 72, 69-75.	4.6	9
44	Rheological Behavior of High Concentrated Dispersions of Graphite Oxide. Soft Materials, 2015, 13, 167-175.	0.8	13
45	A modified steady-state model for evaluation of ammonia concentrations behind a water curtain. Journal of Loss Prevention in the Process Industries, 2015, 36, 120-124.	1.7	6
46	Isobaric Vapor-Liquid Equilibrium for Water + Cyclohexane + Acrylic Acid at 200 mmHg. Journal of Chemical & Engineering Data, 2015, 60, 3268-3271.	1.0	1
47	Optimization Study of Municipal Sludge Conditioning, Filtering, and Expressing Dewatering by Partial Least Squares Regression. Drying Technology, 2014, 32, 841-850.	1.7	11
48	The influence of air content in water on ultrasonic cavitation field. Ultrasonics Sonochemistry, 2014, 21, 566-571.	3.8	51
49	Effects of thermal treatment on physical and expression dewatering characteristics of municipal sludge. Chemical Engineering Journal, 2014, 247, 223-230.	6.6	57
50	Effect of Thermal Hydrolysis on Rheological Behavior of Municipal Sludge. Industrial & Engineering Chemistry Research, 2014, 53, 11185-11192.	1.8	51
51	Esterification of free fatty acids in waste cooking oil by heterogeneous catalysts. Transactions of Tianjin University, 2014, 20, 266-272.	3.3	7
52	Ultrasound-assisted oxidation of dibenzothiophene with phosphotungstic acid supported on activated carbon. Ultrasonics Sonochemistry, 2014, 21, 970-974.	3.8	42
53	Numerical simulation of water curtain application for ammonia release dispersion. Journal of Loss Prevention in the Process Industries, 2014, 30, 105-112.	1.7	21
54	Effects and Mechanism Research of the Desilication Pretreatment for High-Aluminum Fly Ash. Energy & Fuels, 2013, 27, 6948-6954.	2.5	37

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55	Isobaric vapor-liquid equilibrium for water+cyclohexane+acetic acid at 101.3kPa. Fluid Phase Equilibria, 2013, 350, 32-36.	1.4	6
56	Synthesis and characterization of phosphotungstic acid/activated carbon as a novel ultrasound oxidative desulfurization catalyst. Frontiers of Chemical Science and Engineering, 2013, 7, 422-427.	2.3	11
57	Ultrasound field distribution and ultrasonic oxidation desulfurization efficiency. Ultrasonics Sonochemistry, 2013, 20, 696-702.	3.8	23
58	Experimental and Numerical Study of the Solid Concentration Distribution in a Horizontal Screw Decanter Centrifuge. Industrial & Engineering Chemistry Research, 2013, 52, 17249-17256.	1.8	22
59	Optimal Design of the Accelerator Disk in a Two-Stage Piston Pusher Centrifuge Using Numerical Simulation. Industrial & Engineering Chemistry Research, 2012, 51, 4632-4642.	1.8	5
60	Simulating multiphase flow in a two-stage pusher centrifuge using computational fluid dynamics. Frontiers of Chemical Science and Engineering, 2012, 6, 329-338.	2.3	3
61	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
62	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
63	Indicator of percolation transition in graphite oxide suspension containing cations. Korean Journal of Chemical Engineering, 0, , 1.	1.2	2