

Zhao-liang Wu

List of Publications by Year in descending order

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88
papers

1,474
citations

361045

20
h-index

395343

33
g-index

88
all docs

88
docs citations

88
times ranked

1120
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of pH-induced structural change in protein aggregation in foam fractionation of bovine serum albumin. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2016, 9, 46-52.	2.1	155
2	Removal of color from textile dyeing wastewater by foam separation. <i>Journal of Hazardous Materials</i> , 2010, 182, 928-932.	6.5	100
3	Technology of protein separation from whey wastewater by two-stage foam separation. <i>Biochemical Engineering Journal</i> , 2011, 55, 43-48.	1.8	61
4	Separation of tea saponin by two-stage foam fractionation. <i>Separation and Purification Technology</i> , 2011, 80, 300-305.	3.9	55
5	Foams stabilization by silica nanoparticle with cationic and anionic surfactants in column flotation: Effects of particle size. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018, 88, 62-69.	2.7	47
6	Enhancing foam drainage using foam fractionation column with spiral internal for separation of sodium dodecyl sulfate. <i>Journal of Hazardous Materials</i> , 2011, 192, 1900-1904.	6.5	44
7	Pilot study of recovery of whey soy proteins from soy whey wastewater using batch foam fractionation. <i>Journal of Food Engineering</i> , 2014, 142, 201-209.	2.7	43
8	Bioleaching assisted foam fractionation for recovery of gold from the printed circuit boards of discarded cellphone. <i>Waste Management</i> , 2020, 101, 200-209.	3.7	38
9	Effects of pH profiles on nisin fermentation coupling with foam separation. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1401-1407.	1.7	35
10	Recovery of trace Cu 2+ using a process of nano-adsorption coupled with flotation: SNP as an adsorbing carrier. <i>Separation and Purification Technology</i> , 2017, 184, 257-263.	3.9	30
11	Wall effect on rising foam drainage and its application to foam separation. <i>Separation and Purification Technology</i> , 2013, 118, 710-715.	3.9	28
12	Interfacial adsorption of methyl orange in liquid phase of foam fractionation using dodecyl dimethyl betaine as the collector. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 28, 184-189.	2.9	28
13	Removal of pyridine from its wastewater by using a novel foam fractionation column. <i>Chemical Engineering Journal</i> , 2017, 321, 151-158.	6.6	28
14	Enhancing the adsorption of the proteins in the soy whey wastewater using foam separation column fitted with internal baffles. <i>Journal of Food Engineering</i> , 2013, 119, 377-384.	2.7	27
15	Removal of methylene blue from its aqueous solution by froth flotation: hydrophobic silica nanoparticle as a collector. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	24
16	Study on Riboflavin Recovery from Wastewater by a Batch Foam Separation Process. <i>Separation Science and Technology</i> , 2009, 44, 2681-2694.	1.3	23
17	Recovery of yam mucilage from the yam starch processing wastewater by using a novel foam fractionation column. <i>Separation and Purification Technology</i> , 2016, 171, 26-33.	3.9	22
18	Variable Volume Fed-Batch Fermentation for Nisin Production by <i>Lactococcus lactis</i> subsp. <i>lactis</i> W28. <i>Applied Biochemistry and Biotechnology</i> , 2009, 152, 372-382.	1.4	21

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19	Removal of trace Cu ²⁺ from aqueous solution by foam fractionation. <i>Desalination</i> , 2009, 249, 503-506.	4.0	21
20	Effect of ionic strength on the foam separation of nisin from the fermentation broth. <i>Separation and Purification Technology</i> , 2011, 78, 42-48.	3.9	20
21	Effective recovery of casein from its highly diluted solution by using a technology of foam fractionation coupled with isoelectric precipitation. <i>Journal of Food Engineering</i> , 2018, 216, 72-80.	2.7	19
22	Modified multi-walled carbon nanotubes assisted foam fractionation for effective removal of acid orange 7 from the dyestuff wastewater. <i>Journal of Environmental Management</i> , 2020, 262, 110260.	3.8	19
23	Technology of streptomycin sulfate separation by two-stage foam separation. <i>Biotechnology Progress</i> , 2012, 28, 733-739.	1.3	18
24	Intensification of the interfacial adsorption of whey soy protein in the liquid phase using a foam separation column with the vertical sieve tray internal. <i>Industrial Crops and Products</i> , 2014, 53, 308-313.	2.5	18
25	BS12-assisted flotation for the intensification of SNPs separation from CMP wastewater using a novel flotation column. <i>Journal of Hazardous Materials</i> , 2018, 344, 788-796.	6.5	18
26	Nanoparticle as a novel foam controller for enhanced protein separation from sweet potato starch wastewater. <i>Separation and Purification Technology</i> , 2019, 209, 392-400.	3.9	18
27	Technology of foam fractionation coupled with crystallization for the enrichment and purification of folic acid. <i>Separation and Purification Technology</i> , 2014, 133, 335-342.	3.9	17
28	β-cyclodextrin assisted two-stage foam fractionation of bromelain from the crude extract of pineapple peels. <i>Industrial Crops and Products</i> , 2016, 94, 233-239.	2.5	17
29	Synergistic effects of binary surfactant mixtures in the removal of Cr(VI) from its aqueous solution by foam fractionation. <i>Separation and Purification Technology</i> , 2020, 237, 116346.	3.9	17
30	A novel three-stage foam separation technology for recovering sodium dodecylbenzene sulfonate from its wastewater. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 63, 1-5.	2.7	16
31	Effective recovery of trans-resveratrol from the leaching solution of muscat grape pomace by developing a novel technology of foam fractionation. <i>Journal of Food Engineering</i> , 2019, 241, 41-50.	2.7	16
32	Enhancing defoaming using the foam breaker with perforated plates for promoting the application of foam fractionation. <i>Separation and Purification Technology</i> , 2013, 120, 12-19.	3.9	15
33	Protein aggregation in foam fractionation of bovine serum albumin: Effect of protein concentration. <i>Biochemical Engineering Journal</i> , 2015, 103, 234-241.	1.8	15
34	Enrichment and isolation of phenol from its aqueous solution using foam fractionation. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 36, 180-183.	2.9	15
35	Foam fractionation for promoting rhamnolipids production by <i>Pseudomonas aeruginosa</i> D1 using animal fat hydrolysate as carbon source and its application in intensifying phytoremediation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 158, 108177.	1.8	15
36	Isolation of soy whey proteins from isoflavones in the concentrated solution using foam fractionation. <i>Separation and Purification Technology</i> , 2015, 149, 31-37.	3.9	14

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37	Removal of polyacrylonitrile oligomers from acrylic fiber wastewater using two-stage flotation. <i>Chemical Engineering Journal</i> , 2016, 306, 186-192.	6.6	14
38	The separation of catechol and phenol with each other by two-stage batch foam fractionation. <i>Chemical Engineering Journal</i> , 2017, 308, 683-691.	6.6	14
39	Enhancing foam drainage using inclined foam channels of different angles for recovering the protein from whey wastewater. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 419, 28-36.	2.3	13
40	Separation of Bovine Serum Albumin by Foam Fractionation with Wire Gauze Structured Packing Column. <i>Applied Biochemistry and Biotechnology</i> , 2015, 175, 502-512.	1.4	13
41	Effective recovery of casein from its aqueous solution by ultrasonic treatment assisted foam fractionation: Inhibiting molecular aggregation. <i>Journal of Food Engineering</i> , 2020, 284, 110042.	2.7	13
42	Rhamnolipid assisted recovery of lycopene from the tomato-based processing wastewater using foam fractionation. <i>Journal of Food Engineering</i> , 2015, 164, 63-69.	2.7	12
43	Foam fractionation for recovering whey soy protein from whey wastewater: Strengthening foam drainage using a novel internal component with superhydrophobic surface. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 78, 39-44.	2.7	12
44	Foam fractionation for effective recovery of leaf protein from alfalfa (<i>Medicago sativa L.</i>). <i>Separation Science and Technology</i> , 2020, 55, 1388-1397.	1.3	12
45	A drainage-enhancing device for foam fractionation of proteins. <i>Science Bulletin</i> , 2010, 55, 1213-1220.	1.7	11
46	In-situ activated nanoparticle as an efficient and recyclable foam stabilizer for enhancing foam separation of LAS. <i>Journal of Hazardous Materials</i> , 2019, 379, 120843.	6.5	11
47	Study on Streptomycin Sulfate Recovery by Batch Foam Separation. <i>Separation Science and Technology</i> , 2010, 45, 844-848.	1.3	10
48	Foam fractionation for effective recovery of resveratrol from the leaching liquor of <i>Polygonum cuspidatum</i> by using partially ethylated β -cyclodextrin as collector and frother. <i>Industrial Crops and Products</i> , 2018, 112, 420-426.	2.5	10
49	Recovery of silk sericin from the filature wastewater by using a novel foam fractionation column. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 129, 37-42.	1.8	10
50	Xanthan gum assisted foam fractionation for the recovery of casein from the dairy wastewater. <i>Preparative Biochemistry and Biotechnology</i> , 2020, 50, 37-46.	1.0	10
51	Separation of SDS from its determined lowest concentration by a two-stage foam separation. <i>Separation and Purification Technology</i> , 2014, 129, 50-56.	3.9	9
52	Prevention of irreversible aggregation of whey soy proteins in their foam fractionation from soy whey wastewater. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2016, 11, 673-682.	0.8	9
53	Effective improvement of defoaming efficiency using foam breaker with synthetic sponge cylinders in foam fractionation. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 106, 26-32.	1.8	9
54	Enhancing protein self-association at the gas-liquid interface for foam fractionation of bovine serum albumin from its highly diluted solution. <i>Chemical Engineering Research and Design</i> , 2016, 109, 638-646.	2.7	9

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55	Separation of soybean saponins from soybean meal by a technology of foam fractionation and resin adsorption. <i>Preparative Biochemistry and Biotechnology</i> , 2016, 46, 346-353.	1.0	9
56	Enhancement of the quinoline separation from pyridine: Study on competitive adsorption kinetics in foam fractionation with salt. <i>Chemical Engineering Journal</i> , 2019, 359, 1150-1158.	6.6	9
57	Enhancing foam drainage by spiral internal components of different thread pitches and inclined angles and their applications to enrichment of SDS. <i>Separation and Purification Technology</i> , 2012, 98, 109-117.	3.9	8
58	Process improvement for fermentation coupling with foam separation: a convenient strategy for cell recycle. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2015, 10, 466-475.	0.8	8
59	Thermodynamic adsorption properties of bovine serum albumin and lysozyme on the bubble surface from the binary solution. <i>Chemical Engineering Research and Design</i> , 2015, 102, 26-33.	2.7	8
60	β -Cyclodextrin preventing protein aggregation in foam fractionation of bovine serum albumin. <i>Journal of Biotechnology</i> , 2016, 220, 33-34.	1.9	8
61	Technology of fermentation coupling with foam separation for improving the production of nisin using a β -carrageenan with loofa sponges matrix and an hourglass-shaped column. <i>Biochemical Engineering Journal</i> , 2018, 133, 140-148.	1.8	8
62	Recovery of streptomycin sulfate from the wastewater using foam fractionation coupled with adsorption separation for reusing sodium dodecyl sulfate. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 874-879.	1.6	7
63	Intensification of the separation of CuO nanoparticles from their highly diluted suspension using a foam flotation column with S type internal. <i>Journal of Nanoparticle Research</i> , 2015, 17, 1.	0.8	7
64	Effect of nanosilica on foam and thermal stability of a foam extinguishing agent. <i>Nanomaterials and Energy</i> , 2017, 6, 67-73.	0.1	7
65	Desalination for enhancing the recovery of creatine from its wastewater by foam fractionation. <i>Journal of Molecular Liquids</i> , 2018, 255, 447-453.	2.3	7
66	Foam fractionation for the recovery of proanthocyanidin from Camellia seed shells using molecular imprinting chitosan nanoparticles as collector. <i>Journal of Molecular Liquids</i> , 2020, 302, 112523.	2.3	7
67	Foam Fractionation of Protein with the Presence of Antifoam Agent. <i>Separation Science and Technology</i> , 2010, 45, 2481-2488.	1.3	6
68	A novel technology coupling extraction and foam fractionation for separating the total saponins from <i>Achyranthes bidentata</i> . <i>Preparative Biochemistry and Biotechnology</i> , 2016, 46, 666-672.	1.0	6
69	Modified β -CD-Cu ion complex and yam mucilage assisted batch foam fractionation for separating puerarin from Ge-gen (<i>Radix puerariae</i>). <i>Separation and Purification Technology</i> , 2017, 175, 194-202.	3.9	6
70	Recovery of nanoparticles from wastewater by foam fractionation: Regulating bubble size distribution for strengthening foam drainage. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105383.	3.3	6
71	Study on the process of fermentation coupling with foam fractionation and membrane module for nisin production. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2014, 9, 623-628.	0.8	5
72	Role of foam drainage in producing protein aggregates in foam fractionation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 158, 562-568.	2.5	5

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73	Intensified Effect of Reduced Pressure on the Foam Fractionation Process of Bovine Serum Albumin. Separation Science and Technology, 2010, 45, 2489-2496.	1.3	4
74	Removal of trace FeCl ₃ from aqueous solution by foam fractionation. Desalination and Water Treatment, 2011, 36, 27-33.	1.0	4
75	Foam fractionation for effective removal of Pseudomonas aeruginosa from water body: Strengthening foam drainage by artificially inducing foam evolution. Journal of Environmental Management, 2021, 291, 112628.	3.8	4
76	Modification of the data-processing method for the turbidimetric bioassay of nisin. Applied Microbiology and Biotechnology, 2007, 74, 511-516.	1.7	3
77	Oleophobic Modification of Hollow Glass Microspheres and Its Effect on the Foaming Capacity and Stability of Foam Extinguishing Agent. Journal of Chemistry, 2015, 2015, 1-6.	0.9	3
78	A novel membrane-assisted fermentation coupling with foam separation for improving the titer of polymyxin E. Separation Science and Technology, 2018, 53, 786-795.	1.3	2
79	Enhancing antibiotic recovery from its wastewater using thiol-functionalized SNPs as a collector and a novel foam separation column. Chemical Engineering and Processing: Process Intensification, 2018, 132, 48-55.	1.8	2
80	Foam fractionation for effectively recovering copper from the discarded printed circuit board of personal computer. Separation Science and Technology, 2021, 56, 970-981.	1.3	2
81	Separation performances of a multi-stage continuous bubble cap foam fractionation column. Separation Science and Technology, 2021, 56, 2458-2466.	1.3	2
82	Multi-walled carbon nanotubes as collector for the removal of cationic red X-GRL from wastewater by foam fractionation: shortcoming and remedy. Journal of Environmental Chemical Engineering, 2022, 10, 107659.	3.3	2
83	Treatment of Dye Wastewater Containing Basic Violet 5BN by Foam Fractionation. , 2009, , .		1
84	Treatment of Nisin Fermentation Wastewater by Fenton Oxidation Process. , 2009, , .		0
85	Separation of Bovine Serum Albumin by Foam Fractionation with Sieve Tray Column. Separation Science and Technology, 2015, , 150716070258003.	1.3	0
86	The effective recovery of CuO nano-particles from organic solvent by using froth flotation. Journal of Nanoparticle Research, 2019, 21, 1.	0.8	0
87	Random Packing Performance in Continuous Foam Fractionation. Chemical Engineering and Technology, 2021, 44, 1558-1566.	0.9	0
88	Microbubble-foam fractionation enabled long-term caffeic acid stability in the separation process: Self-assembly WSP as collector. Journal of Molecular Liquids, 2021, 342, 117467.	2.3	0