Yinghe He

List of Publications by Year in descending order

80 papers	6,152 citations	136740 32 h-index	66788 78 g-index
80 all docs	80 docs citations	80 times ranked	6448 citing authors

#	Article	IF	Citations
1	Encapsulation Efficiency of Food Flavours and Oils during Spray Drying. Drying Technology, 2008, 26, 816-835.	1.7	818
2	Re-coalescence of emulsion droplets during high-energy emulsification. Food Hydrocolloids, 2008, 22, 1191-1202.	5.6	634
3	Nano-Emulsion Production by Sonication and Microfluidizationâ€"A Comparison. International Journal of Food Properties, 2006, 9, 475-485.	1.3	466
4	Production of sub-micron emulsions by ultrasound and microfluidization techniques. Journal of Food Engineering, 2007, 82, 478-488.	2.7	425
5	On the sustainability of lithium ion battery industry â€“ A review and perspective. Energy Storage Materials, 2021, 36, 186-212.	9.5	425
6	Nano-particle encapsulation of fish oil by spray drying. Food Research International, 2008, 41, 172-183.	2.9	399
7	Calciumâ€ion Batteries: Current Stateâ€ofâ€theâ€Art and Future Perspectives. Advanced Materials, 2018, 30, e1801702.	11.1	294
8	Optimization of nano-emulsions production by microfluidization. European Food Research and Technology, 2007, 225, 733-741.	1.6	267
9	Lithium recycling and cathode material regeneration from acid leach liquor of spent lithium-ion battery via facile co-extraction and co-precipitation processes. Waste Management, 2017, 64, 219-227.	3.7	253
10	Thermal treatment process for the recovery of valuable metals from spent lithium-ion batteries. Hydrometallurgy, 2016, 165, 390-396.	1.8	202
11	Encapsulation of Nanoparticles of d-Limonene by Spray Drying: Role of Emulsifiers and Emulsifying Techniques. Drying Technology, 2007, 25, 1069-1079.	1.7	165
12	Formation of surface nanodroplets under controlled flow conditions. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 9253-9257.	3.3	113
13	Mg-Based Nanocomposites with High Capacity and Fast Kinetics for Hydrogen Storage. Journal of Physical Chemistry B, 2006, 110, 11697-11703.	1.2	95
14	Effectiveness of encapsulating biopolymers to produce sub-micron emulsions by high energy emulsification techniques. Food Research International, 2007, 40, 862-873.	2.9	94
15	Recent progress in the development of Li2MnSiO4 cathode materials. Journal of Power Sources, 2014, 253, 315-331.	4.0	89
16	Role of Powder Particle Size on the Encapsulation Efficiency of Oils during Spray Drying. Drying Technology, 2007, 25, 1081-1089.	1.7	88
17	Synthesis and performance of spherical LiNixCoyMn1-x-yO2 regenerated from nickel and cobalt scraps. Hydrometallurgy, 2016, 165, 358-369.	1.8	69
18	Crystallization of alpha-lactose monohydrate in a drop-based microfluidic crystallizer. Chemical Engineering Science, 2007, 62, 4802-4810.	1.9	68

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19	Growth mechanisms for spherical mixed hydroxide agglomerates prepared by co-precipitation method: A case of Ni1/3Co1/3Mn1/3(OH)2. Journal of Alloys and Compounds, 2015, 619, 846-853.	2.8	68
20	Esterification and transesterification over SrOâ€“ZnO/Al2O3 as a novel bifunctional catalyst for biodiesel production. Renewable Energy, 2020, 158, 388-399.	4.3	66
21	Biodiesel production via simultaneous transesterification and esterification reactions over SrOâ€“ZnO/Al2O3 as a bifunctional catalyst using high acidic waste cooking oil. Chemical Engineering Research and Design, 2020, 162, 238-248.	2.7	62
22	Effect of surface roughness on the in vitro degradation behaviour of a biodegradable magnesium-based alloy. Applied Surface Science, 2013, 279, 343-348.	3.1	59
23	Crystal chemistry of the Pmnb polymorph of Li2MnSiO4. Journal of Solid State Chemistry, 2012, 188, 32-37.	1.4	56
24	Arsenic vitrification by copper slag based glass: Mechanism and stability studies. Journal of Non-Crystalline Solids, 2017, 466-467, 21-28.	1.5	49
25	Synthesis, structure, and electrochemical performance of magnesium-substituted lithium manganese orthosilicate cathode materials for lithium-ion batteries. Journal of Power Sources, 2012, 197, 231-237.	4.0	48
26	Recent advances in sensors for electrochemical analysis of nitrate in food and environmental matrices. Analyst, The, 2020, 145, 5400-5413.	1.7	41
27	Removal of dissolved metals in wetland columns filled with shell grits and plant biomass. Chemical Engineering Journal, 2018, 331, 234-241.	6.6	40
28	One-pot synthesis of NiO/C composite nanoparticles as anode materials for lithium-ion batteries. Journal of Alloys and Compounds, 2016, 671, 60-65.	2.8	39
29	Thermodynamic analysis of ammoniacal thiosulphate leaching of gold catalysed by Co(III)/Co(II) using Eh-pH and speciation diagrams. Hydrometallurgy, 2018, 178, 240-249.	1.8	36
30	High Performance Composite Lithium-Rich Nickel Manganese Oxide Cathodes for Lithium-Ion Batteries. Journal of the Electrochemical Society, 2013, 160, A1856-A1862.	1.3	35
31	Improving gold recovery from a refractory ore via Na2SO4 assisted roasting and alkaline Na2S leaching. Hydrometallurgy, 2019, 185, 133-141.	1.8	33
32	Thiosulphate leaching of gold in the Cuâ€“NH3â€“S2O32â¯â€“H2O system: An updated thermodynamic analysis using predominance area and species distribution diagrams. Minerals Engineering, 2020, 151, 106336.	1.8	33
33	Study on Formation Mechanism of Fayalite (Fe2SiO4) by Solid State Reaction in Sintering Process. Jom, 2018, 70, 539-546.	0.9	29
34	Effect of Pyrite on Thiosulfate Leaching of Gold and the Role of Ammonium Alcohol Polyvinyl Phosphate (AAPP). Metals, 2017, 7, 278.	1.0	28
35	A simple method for the preparation of monodisperse protein-loaded microspheres with high encapsulation efficiencies. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 76, 336-341.	2.0	27
36	The role of organic compounds in the recovery of valuable metals from primary and secondary sources: a mini-review. Resources, Conservation and Recycling, 2021, 174, 105813.	5.3	24

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37	Statistical analysis of the effect of operating parameters on acid mist generation in copper electrowinning. Hydrometallurgy, 2011, 106, 113-118.	1.8	21
38	The catalytic effect of copper ion in the bioleaching of arsenopyrite by Acidithiobacillus ferrooxidans in 9K culture medium. Journal of Cleaner Production, 2020, 256, 120391.	4.6	20
39	Porosity and water retention in coarse coking coal. Fuel, 1997, 76, 215-222.	3.4	19
40	Role of Lactic Acid Bacteria in the Eating Qualities of Fermented Rice Noodles. Cereal Chemistry, 2017, 94, 349-356.	1.1	19
41	Electrodeposition of composite copper/liquid-containing microcapsule coatings. Journal of Materials Science, 2004, 39, 495-499.	1.7	17
42	Li2MnSiO4 cathodes modified by phosphorous substitution and the structural consequences. Solid State Ionics, 2014, 259, 29-39.	1.3	17
43	Experimental study of drop-interface coalescence in the presence of polymer stabilisers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 207, 89-104.	2.3	16
44	The sizing of oxygen bubbles in copper electrowinning. Hydrometallurgy, 2011, 109, 168-174.	1.8	16
45	Acid mist and bubble size correlation in copper electrowinning. Hydrometallurgy, 2012, 113-114, 39-41.	1.8	16
46	Influence of the cathodic activity of magnesium alloys on the electrochemical deposition of calcium phosphate. Materials Letters, 2014, 130, 184-187.	1.3	16
47	Electrochemical behaviour of the dissolution and passivation of arsenopyrite in 9K culture medium. Applied Surface Science, 2020, 508, 145269.	3.1	16
48	Dynamic Interfacial Tension of Aqueous Solutions of PVAAs and Its Role in Liquid-Liquid Dispersion Stabilization. Journal of Chemical Engineering of Japan, 2004, 37, 181-186.	0.3	14
49	Controlled evolution from multilamellar vesicles to hexagonal mesostructures through the addition of 1,3,5-trimethylbenzene. Journal of Colloid and Interface Science, 2009, 336, 368-373.	5.0	14
50	Morphology and Preferred Orientation of Pulse Electrodeposited Magnesium. Journal of the Electrochemical Society, 2010, 157, E45.	1.3	14
51	Application of flow-focusing to the break-up of an emulsion jet for the production of matrix-structured microparticles. Chemical Engineering Science, 2008, 63, 2500-2507.	1.9	13
52	Asymmetry and penetration of transitional plane fountains in stratified fluid. International Journal of Heat and Mass Transfer, 2015, 90, 1125-1142.	2.5	13
53	Preparation of microparticles through co-flowing of partially miscible liquids. Chemical Engineering Journal, 2017, 320, 144-150.	6.6	13
54	Gas-solids flow in the riser of a circulating fluidized bed. Chemical Engineering Science, 1995, 50, 3443-3453.	1.9	11

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55	Mesoporous manganese-deficient lithium manganese silicate cathodes for lithium-ion batteries. RSC Advances, 2014, 4, 11580-11584.	1.7	10
56	Hydrogen Permeation in Nanostructured Bainitic Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 4896-4903.	1.1	10
57	Atomic Hydrogen Diffusion in Novel Magnesium Nanostructures: The Impact of Incorporated Subsurface Carbon Atoms. Journal of Physics: Conference Series, 2006, 29, 167-172.	0.3	9
58	Electrochemical behaviour of the oxidative dissolution of arsenopyrite catalysed by Ag+ in 9K culture medium. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 614, 126169.	2.3	9
59	A criterion for particle agglomeration by collision. Powder Technology, 1999, 103, 189-193.	2.1	8
60	Breakup of a flow-focused emulsion jet for the production of matrix-structured microcapsules. Applied Physics Letters, 2007, 91, 254112.	1.5	8
61	Modeling the crystallization of proteins and small organic molecules in nanoliter drops. AICHE Journal, 2010, 56, 79-91.	1.8	8
62	Simultaneous Removal of S and As from a Refractory Gold Ore in a Single Stage O2-Enriched Roasting Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2019, 50, 1588-1596.	1.0	8
63	Preparation and lithium storage properties of C@TiO2/3D carbon hollow sphere skeleton composites. Journal of Alloys and Compounds, 2020, 815, 152511.	2.8	8
64	Characterisation of spouting behaviour of coal ash with thermo-mechanical analysis. Fuel Processing Technology, 1999, 60, 69-79.	3.7	6
65	Performance evaluation of acid mist reduction techniques in copper electrowinning. Hydrometallurgy, 2013, 131-132, 76-80.	1.8	6
66	Effect of Alkalineâ€Soluble Proteins on Pasting Properties of Nonwaxy Rice Flour. Cereal Chemistry, 2014, 91, 502-507.	1.1	6
67	Circulating fluidized oil shale retort. Fuel, 1993, 72, 879-883.	3.4	5
68	An electron energy loss spectroscopy and electron diffraction study of the Pmnb polymorph of Li2MnSiO4. Journal of Alloys and Compounds, 2013, 551, 521-526.	2.8	5
69	The volume-average voidage in the riser of a circulating fluidized bed. Powder Technology, 1996, 89, 79-82.	2.1	4
70	Response surface optimization and characteristics of Indica rice starchâ€based fat substitute prepared by Î±â€amylase. Starch/Staerke, 2012, 64, 503-509.	1.1	3
71	Behavior of the interaction between twin transitional round fountains in a homogeneous fluid, Part 2: Numerical study. International Journal of Heat and Mass Transfer, 2015, 86, 973-991.	2.5	3
72	Behavior of the interaction between twin transitional round fountains in a homogeneous fluid, Part 1: Experimental study. International Journal of Heat and Mass Transfer, 2015, 86, 957-972.	2.5	3

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73	Correlations for maximum penetration heights of transitional plane fountains in linearly stratified fluids. International Communications in Heat and Mass Transfer, 2016, 77, 64-77.	2.9	3
74	Roles of trifluoroacetic acid, acetic acid and their salts in the synthesis of helical mesoporous materials. Journal of Porous Materials, 2010, 17, 123-131.	1.3	2
75	Erratum to â€œArsenic vitrification by copper slag based glass: Mechanism and stability studiesâ€•[journal of non-crystalline solids 466 (2017) 21â€“28]. Journal of Non-Crystalline Solids, 2019, 503-504, 409.	1.5	2
76	Characteristics of unsteadiness for transitional plane fountains in linearly stratified fluids. International Communications in Heat and Mass Transfer, 2019, 100, 83-97.	2.9	2
77	Electrochemical Corrosion Behaviour of WE54 Magnesium Alloy. Materials Science Forum, 2013, 765, 644-647.	0.3	1
78	Co-flowing of partially miscible liquids for the generation of monodisperse microparticles. Advanced Powder Technology, 2017, 28, 2886-2892.	2.0	1
79	A MODEL FOR A DENSE PHASE CIRCULATING FLUIDIZED BED. Chemical Engineering Communications, 1997, 161, 103-124.	1.5	0
80	Interaction behavior of triple transitional round fountains in a homogeneous fluid. International Journal of Heat and Fluid Flow, 2016, 62, 437-454.	1.1	0