Donghai Yang

List of Publications by Year
in descending order

31 papers	591 citations	623734 14 h-index	642732 23 g-index
31 all docs	31 docs citations	31 times ranked	286 citing authors

#	Article	IF	Citations
1	Study on the Effect of Nanoparticle Used in Nano-Fluid Flooding on Dropletâ€“Interface Electro-Coalescence. Nanomaterials, 2021, 11, 1764.	4.1	5
2	Convergence effect of droplet coalescence under AC and pulsed DC electric fields. International Journal of Multiphase Flow, 2021, 143, 103776.	3.4	11
3	Ultra-high frequency and Self-adaptive voltage technology for water separation from oil emulsion. Separation and Purification Technology, 2021, 279, 119732.	7.9	14
4	Nonâ€coalescence and chain formation of droplets under an alternating current electric field. AIChE Journal, 2021, 67, e17165.	3.6	12
5	Coalescence, Partial Coalescence, and Noncoalescence of Two Free Droplets Suspended in Low-Viscosity Oil under a DC Electric Field. Journal of Physical Chemistry B, 2020, 124, 7508-7517.	2.6	10
6	Charge-Transfer-Induced Noncoalescence and Chain Formation of Free Droplets under a Pulsed DC Electric Field. Langmuir, 2020, 36, 14255-14267.	3.5	11
7	Experimental study on the falling and coalescence characteristics of droplets under alternating electric fields. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 603, 125136.	4.7	12
8	Properties of Nanofluids and Their Applications in Enhanced Oil Recovery: A Comprehensive Review. Energy & Fuels, 2020, 34, 1202-1218.	5.1	83
9	Influence of alkali concentration, electric waveform, and frequency on the critical electric field strength of dropletâ€“interface partial coalescence. Chemical Engineering Science, 2019, 208, 115136.	3.8	20
10	Nonâ€coalescence behavior of neutral droplets suspended in oil under a direct current electric field. AIChE Journal, 2019, 65, e16739.	3.6	9
11	Effect of hydrolyzed polyacrylamide used in polymer flooding on dropletâ€“interface electro-coalescence: Variation of critical electric field strength of partial coalescence. Separation and Purification Technology, 2019, 227, 115737.	7.9	19
12	Deformation and coalescence of water droplets in viscous fluid under a direct current electric field. International Journal of Multiphase Flow, 2019, 118, 1-9.	3.4	37
13	Enhanced mixing of binary droplets induced by capillary pressure. Journal of Colloid and Interface Science, 2019, 545, 35-42.	9.4	18
14	Flow structure and pressure gradient of extra heavy crude oil solution CO2. Experimental Thermal and Fluid Science, 2019, 104, 229-237.	2.7	3
15	Separation Characteristics of Water-in-Oil Emulsion under the Coupling of Electric Field and Magnetic Field. Energy & Fuels, 2019, 33, 2565-2574.	5.1	20
16	Partial coalescence of droplets at oilâ€“water interface subjected to different electric waveforms: Effects of non-ionic surfactant on critical electric field strength. Chemical Engineering Research and Design, 2019, 142, 214-224.	5.6	11
17	An experimental study on the coalescence behavior of oil droplet in ASP solution. Separation and Purification Technology, 2018, 203, 152-158.	7.9	11
18	An experimental study on the floating motion of oil drop in ASP solution. Chemical Engineering and Processing: Process Intensification, 2018, 125, 97-104.	3.6	8

#	ARTICLE	IF	CITATIONS
19	Breakup modes and criterion of droplet with surfactant under direct current electric field. Chemical Engineering Research and Design, 2018, 132, 822-830.	5.6	28
20	Electrocoalescence of Two Drops with Different Surfactant Concentrations Suspended in Oil. Journal of Physical Chemistry C, 2018, 122, 22615-22621.	3.1	12
21	Coalescence characteristics of droplets at oilâ€“water interface subjected to different electric waveforms. Chemical Engineering and Processing: Process Intensification, 2018, 134, 28-37.	3.6	12
22	Coalescence characteristics of silica nanoparticle-laden droplets with a planar interface under direct current electric field. Chemical Engineering Research and Design, 2018, 140, 128-141.	5.6	11
23	The droplet-interface coalescence characteristics of water containing nanoparticles in oil under electric fields of different waveforms. Chemical Engineering and Processing: Process Intensification, 2018, 132, 89-97.	3.6	7
24	The electrocoalescence behavior of surfactant-laden droplet pairs in oil under a DC electric field. Chemical Engineering Science, 2018, 191, 350-357.	3.8	45
25	Critical electric field strength for partial coalescence of droplets on oilâ€“water interface under DC electric field. Chemical Engineering Research and Design, 2018, 136, 83-93.	5.6	28
26	Breakup characteristics of aqueous droplet with surfactant in oil under direct current electric field. Journal of Colloid and Interface Science, 2017, 505, 460-466.	9.4	21
27	Breakup mode transformation of leaky dielectric droplet under direct current electric field. International Journal of Multiphase Flow, 2017, 96, 123-133.	3.4	23
28	Numerical study on transient response of droplet deformation in a steady electric field. Journal of Electrostatics, 2016, 82, 29-37.	1.9	19
29	An experimental investigation on the deformation of alkali-surfactant-polymer droplet under AC electric field. Colloid and Polymer Science, 2016, 294, 1651-1658.	2.1	7
30	Investigation on Transient Oscillation of Droplet Deformation before Conical Breakup under Alternating Current Electric Field. Langmuir, 2015, 31, 8275-8283.	3.5	38
31	The influence and optimisation of electrical parameters for enhanced coalescence under pulsed DC electric field in a cylindrical electrostatic coalescer. Chemical Engineering Science, 2015, 138, 71-85.	3.8	26