Zhenyu Zhao

List of Publications by Year
in descending order

18	358	840776 11	888059 17
papers	citations	h-index	g-index

19	19	19	191
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Microwave-assisted synthesis of MOFs: Rational design via numerical simulation. Chemical Engineering Journal, 2022, 428, 131006.	12.7	41
2	Development of a novel MW-VLE model for calculation of vaporâ€“liquid equilibrium under microwave irradiation. Chemical Engineering Science, 2022, 249, 117354.	3.8	5
3	Frontispiece: Watching Microwaveâ€Induced Microscopic Hot Spots via the Thermosensitive Fluorescence of Europium/Terbium Mixedâ€Metal Organic Complexes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	1
4	Frontispiz: Watching Microwaveâ€Induced Microscopic Hot Spots via the Thermosensitive Fluorescence of Europium/Terbium Mixedâ€Metal Organic Complexes. Angewandte Chemie, 2022, 134, .	2.0	0
5	Imaging of liquid temperature distribution during microwave heating via thermochromic metal organic frameworks. International Journal of Heat and Mass Transfer, 2022, 189, 122667.	4.8	18
6	Watching Microwaveâ€Induced Microscopic Hot Spots via the Thermosensitive Fluorescence of Europium/Terbium Mixedâ€Metal Organic Complexes. Angewandte Chemie, 2022, 134, .	2.0	3
7	Watching Microwaveâ€Induced Microscopic Hot Spots via the Thermosensitive Fluorescence of Europium/Terbium Mixedâ€Metal Organic Complexes. Angewandte Chemie - International Edition, 2022, 61, .	13.8	17
8	Microwave-assisted catalytic alcoholysis of fructose to ethoxymethylfurfural (EMF) over carbon-based microwave-responsive catalyst. Fuel Processing Technology, 2022, 233, 107305.	7.2	10
9	Microwave-assisted synthesis of highly dispersed ZrO2 on CNTs as an efficient catalyst for producing 5-hydroxymethylfurfural (5-HMF). Fuel Processing Technology, 2022, 233, 107292.	7.2	13
10	Structure Effect on Heating Performance of Microwave Inductive Waste Lubricating Oil Pyrolysis. Heat Transfer Engineering, 2021, 42, 1381-1389.	1.9	4
11	Predicting microwave-induced relative volatility changes in binary mixtures using a novel dimensionless number. Chemical Engineering Science, 2021, 237, 116576.	3.8	13
12	Numerical modeling and optimal design of microwave-heating falling film evaporation. Chemical Engineering Science, 2021, 240, 116681.	3.8	14
13	Process intensification on co-pyrolysis of polyethylene terephthalate wastes and biomass via microwave energy: Synergetic effect and roles of microwave susceptor. Journal of Analytical and Applied Pyrolysis, 2021, 158, 105239.	5.5	34
14	Design of distillation reactor with novel catalysts distribution pattern for n-amyl acetate synthesis in industrial scale. Fuel, 2020, 280, 118604.	6.4	13
15	Fundamentals and applications of microwave heating to chemicals separation processes. Renewable and Sustainable Energy Reviews, 2019, 114, 109316.	16.4	115
16	Breaking the equilibrium at the interface: microwave-assisted reactive distillation (MARD). Reaction Chemistry and Engineering, 2019, 4, 688-694.	3.7	19
17	Liquidâ€bridge flow in the channel of helical string and its application to gasâ€“liquid contacting process. AICHE Journal, 2018, 64, 3360-3368.	3.6	10
18	Reversible Reaction-Assisted Intensification Process for Separating the Azeotropic Mixture of Ethanediol and 1,2-Butanediol: Vaporâ€“Liquid Equilibrium and Economic Evaluation. Industrial & Engineering Chemistry Research, 2018, 57, 5083-5092.	3.7	28