

Zhenyu Zhao

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

358
citations

840776

11
h-index

888059

17
g-index

19
all docs

19
docs citations

19
times ranked

191
citing authors

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