

Jun Yue

List of Publications by Year in descending order

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Version: 2024-02-01

56
papers

2,798
citations

201385

27
h-index

174990

52
g-index

56
all docs

56
docs citations

56
times ranked

2358
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrodynamics and mass transfer characteristics in gas-liquid flow through a rectangular microchannel. <i>Chemical Engineering Science</i> , 2007, 62, 2096-2108.	1.9	435
2	An experimental study of air-water Taylor flow and mass transfer inside square microchannels. <i>Chemical Engineering Science</i> , 2009, 64, 3697-3708.	1.9	175
3	A review on catalytic methane combustion at low temperatures: Catalysts, mechanisms, reaction conditions and reactor designs. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109589.	8.2	161
4	An experimental investigation of gas-liquid two-phase flow in single microchannel contactors. <i>Chemical Engineering Science</i> , 2008, 63, 4189-4202.	1.9	158
5	Multiphase flow processing in microreactors combined with heterogeneous catalysis for efficient and sustainable chemical synthesis. <i>Catalysis Today</i> , 2018, 308, 3-19.	2.2	131
6	Integration of Microreactors with Spectroscopic Detection for Online Reaction Monitoring and Catalyst Characterization. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 14583-14609.	1.8	121
7	Continuous synthesis of 5-hydroxymethylfurfural from glucose using a combination of AlCl ₃ and HCl as catalyst in a biphasic slug flow capillary microreactor. <i>Chemical Engineering Journal</i> , 2020, 381, 122754.	6.6	121
8	Effect of a potassium promoter on the Fischer-Tropsch synthesis of light olefins over iron carbide catalysts encapsulated in graphene-like carbon. <i>Catalysis Science and Technology</i> , 2019, 9, 2728-2741.	2.1	98
9	Gas-Liquid Microreaction Technology: Recent Developments and Future Challenges. <i>Chinese Journal of Chemical Engineering</i> , 2008, 16, 663-669.	1.7	89
10	An efficient magnetic carbon-based solid acid treatment for corncob saccharification with high selectivity for xylose and enhanced enzymatic digestibility. <i>Green Chemistry</i> , 2019, 21, 1292-1304.	4.6	77
11	Lactic Acid Extraction and Mass Transfer Characteristics in Slug Flow Capillary Microreactors. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4691-4702.	1.8	76
12	Microreactors with integrated UV/Vis spectroscopic detection for online process analysis under segmented flow. <i>Lab on A Chip</i> , 2013, 13, 4855.	3.1	73
13	Selective fructose dehydration to 5-hydroxymethylfurfural from a fructose-glucose mixture over a sulfuric acid catalyst in a biphasic system: Experimental study and kinetic modelling. <i>Chemical Engineering Journal</i> , 2021, 409, 128182.	6.6	72
14	Hydrodynamics and mass transfer of gas-liquid flow in a falling film microreactor. <i>AIChE Journal</i> , 2009, 55, 1110-1120.	1.8	67
15	Catalytic Transformation of Biomass Derivatives to Value-Added Chemicals and Fuels in Continuous Flow Microreactors. <i>ChemCatChem</i> , 2019, 11, 4671-4708.	1.8	67
16	Gas-liquid-liquid three-phase flow pattern and pressure drop in a microfluidic chip: similarities with gas-liquid-liquid flows. <i>Lab on A Chip</i> , 2014, 14, 1632.	3.1	61
17	Pressure drops of single and two-phase flows through T-type microchannel mixers. <i>Chemical Engineering Journal</i> , 2004, 102, 11-24.	6.6	54
18	Flow distribution and mass transfer in a parallel microchannel contactor integrated with constructal distributors. <i>AIChE Journal</i> , 2010, 56, 298-317.	1.8	53

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19	Numerical simulation of Taylor bubble formation in a microchannel with a converging shape mixing junction. <i>Chemical Engineering Journal</i> , 2015, 262, 616-627.	6.6	47
20	Optimization of Biodiesel Production over Chicken Eggshell-Derived CaO Catalyst in a Continuous Centrifugal Contactor Separator. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 12742-12755.	1.8	45
21	Selective tandem catalysis for the synthesis of 5-hydroxymethylfurfural from glucose over in-situ phosphated titania catalysts: Insights into structure, bi-functionality and performance in flow microreactors. <i>Applied Catalysis B: Environmental</i> , 2022, 301, 120800.	10.8	41
22	Manipulation of gas-liquid-liquid systems in continuous flow microreactors for efficient reaction processes. <i>Journal of Flow Chemistry</i> , 2020, 10, 103-121.	1.2	39
23	Highly Efficient Conversion of Xylose to Furfural in a Water-MIBK System Catalyzed by Magnetic Carbon-Based Solid Acid. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 17046-17056.	1.8	38
24	Preparation of Pt/ γ -Al ₂ O ₃ catalyst coating in microreactors for catalytic methane combustion. <i>Chemical Engineering Journal</i> , 2020, 380, 122424.	6.6	37
25	Formation characteristics of Taylor bubbles in a microchannel with a converging shape mixing junction. <i>Chemical Engineering Journal</i> , 2013, 223, 99-109.	6.6	33
26	The rotor-stator type hydrodynamic cavitation reactor approach for enhanced biodiesel fuel production. <i>Fuel</i> , 2021, 283, 118821.	3.4	33
27	Experimental study and mass transfer modelling for extractive desulfurization of diesel with ionic liquid in microreactors. <i>Chemical Engineering Journal</i> , 2021, 413, 127419.	6.6	31
28	Experimental and modeling studies on the Ru/C catalyzed levulinic acid hydrogenation to γ -valerolactone in packed bed microreactors. <i>Chemical Engineering Journal</i> , 2020, 399, 125750.	6.6	30
29	High-yield 5-Hydroxymethylfurfural Synthesis from Crude Sugar Beet Juice in a Biphasic Microreactor. <i>ChemSusChem</i> , 2019, 12, 4304-4312.	3.6	28
30	Effect of mixing on mass transfer characterization in continuous slugs and dispersed droplets in biphasic slug flow microreactors. <i>Chemical Engineering Journal</i> , 2021, 406, 126885.	6.6	27
31	Efficient Conversion of Glucose to 5-Hydroxymethylfurfural over a Sn-Modified SAPO-34 Zeolite Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 5838-5851.	1.8	24
32	Efficient Depolymerization of Lignin to Biobased Chemicals Using a Two-Step Approach Involving Ozonation in a Continuous Flow Microreactor Followed by Catalytic Hydrotreatment. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18384-18394.	3.2	20
33	Flow pattern and break-up of liquid film in single-channel falling film microreactors. <i>Chemical Engineering Journal</i> , 2010, 163, 126-132.	6.6	19
34	Numerical modeling of a compositional flow for chemical EOR and its stability analysis. <i>Applied Mathematical Modelling</i> , 2017, 47, 141-159.	2.2	19
35	Bubble splitting under gas-liquid-liquid three-phase flow in a double T-junction microchannel. <i>AIChE Journal</i> , 2018, 64, 376-388.	1.8	19
36	Mass transfer and reaction characteristics of homogeneously catalyzed aerobic oxidation of 5-hydroxymethylfurfural in slug flow microreactors. <i>Chemical Engineering Journal</i> , 2021, 413, 127552.	6.6	19

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37	Enzymatic Biodiesel Synthesis by the Biphasic Esterification of Oleic Acid and 1-Butanol in Microreactors. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15432-15444.	1.8	18
38	Hydrodynamics and local mass transfer characterization under gas-liquid-liquid slug flow in a rectangular microchannel. <i>AIChE Journal</i> , 2020, 66, e16805.	1.8	15
39	Continuous Solid Particle Flow in Microreactors for Efficient Chemical Conversion. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 6269-6291.	1.8	15
40	Proof of concept for continuous enantioselective liquid-liquid extraction in capillary microreactors using 1-octanol as a sustainable solvent. <i>Green Chemistry</i> , 2017, 19, 4334-4343.	4.6	14
41	Green process intensification using microreactor technology for the synthesis of biobased chemicals and fuels. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 177, 109002.	1.8	14
42	Enhancement Factor for Gas Absorption in a Finite Liquid Layer. Part 1: Instantaneous Reaction in a Liquid in Plug Flow. <i>Chemical Engineering and Technology</i> , 2012, 35, 679-692.	0.9	11
43	Aerobic oxidation of benzyl alcohol in a slug flow microreactor: Influence of liquid film wetting on mass transfer. <i>AIChE Journal</i> , 2020, 66, e17005.	1.8	11
44	Efficient synthesis of furfural from xylose over HCl catalyst in slug flow microreactors promoted by NaCl addition. <i>AIChE Journal</i> , 2022, 68, .	1.8	11
45	Modelling studies of enantioselective extraction of an amino acid derivative in slug flow capillary microreactors. <i>Chemical Engineering Journal</i> , 2018, 354, 378-392.	6.6	9
46	Catalytic methane combustion in plate-type microreactors with different channel configurations: An experimental study. <i>Chemical Engineering Science</i> , 2021, 236, 116517.	1.9	9
47	Sugar dehydration to 5-hydroxymethylfurfural in mixtures of water/[Bmim]Cl catalyzed by iron sulfate. <i>New Journal of Chemistry</i> , 2020, 44, 16877-16890.	1.4	8
48	Enhancement Factor for Gas Absorption in a Finite Liquid Layer. Part 2: First- and Second-Order Reactions in a Liquid in Plug Flow. <i>Chemical Engineering and Technology</i> , 2012, 35, 859-869.	0.9	6
49	Hydrodynamics and Mass Transfer Characteristics for Extractive Desulfurization of Diesel Using Highly Viscous Ionic Liquids in Microchannels: The Effect of the Phase Ratio and Temperature. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 5351-5362.	1.8	6
50	Biodiesel fuel purification in a continuous centrifugal contactor separator: An environmental-friendly approach. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101511.	1.7	4
51	Gas-Liquid Slug Flow Studies in Microreactors: Effect of Nanoparticle Addition on Flow Pattern and Pressure Drop. <i>Frontiers in Chemical Engineering</i> , 2022, 3, .	1.3	4
52	Enhancement Factor for Gas Absorption in a Finite Liquid Layer. Part 3: Instantaneous and Second-Order Reactions in a Liquid in Laminar Flow. <i>Chemical Engineering and Technology</i> , 2012, 35, 1473-1485.	0.9	2
53	Influence of precursors on the catalytic activity of alumina for bio-ethanol dehydration in microchannel reactors. <i>International Journal of Global Warming</i> , 2009, 1, 456.	0.2	1
54	Enhancement Factor for Gas Absorption in a Finite Liquid Layer. Part 4: Influence of Gas-Phase Mass Transfer during a Second-Order Reaction in a Liquid in Laminar Flow. <i>Chemical Engineering and Technology</i> , 2013, 36, 611-626.	0.9	1

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55	Optimization of operational and design parameters of a Simultaneous Mixer-Separator for enhanced continuous biodiesel production. <i>Chemical Product and Process Modeling</i> , 2021, 16, 155-167.	0.5	1
56	Preparation of reducing sugars from corncob by solid acid catalytic pretreatment combined with in situ enzymatic hydrolysis. <i>Biomass Conversion and Biorefinery</i> , 0, , 1.	2.9	0