Chenxi Zhang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5141835/publications.pdf

Version: 2024-02-01

36 papers	2,369 citations	361296 20 h-index	345118 36 g-index
38 all docs	38 docs citations	38 times ranked	3317 citing authors

#	Article	IF	Citations
1	Phase coexistence in fluidization. AICHE Journal, 2022, 68, .	1.8	4
2	Highly Selective Conversion of CO₂ or CO into Precursors for Kerosene-Based Aviation Fuel via an Aldolâ€“Aromatic Mechanism. ACS Catalysis, 2022, 12, 2023-2033.	5.5	28
3	Compressibility of granular fluids. Physics of Fluids, 2022, 34, .	1.6	2
4	Advances in Precise Structure Control and Assembly toward the Carbon Nanotube Industry. Advanced Functional Materials, 2022, 32, .	7.8	12
5	In situ imaging of the sorption-induced subcell topological flexibility of a rigid zeolite framework. Science, 2022, 376, 491-496.	6.0	62
6	Sustainable Tourism Research Progress. Tourism, 2022, 70, 493-511.	0.7	2
7	Intrinsic blocking effect of SiOx on the side reaction with a LiPF6-based electrolyte. Catalysis Today, 2021, 364, 61-66.	2.2	11
8	CFD-DEM model study of gasâ€“solid flow in a spout fluidized bed with an umbrella-like baffle. Chemical Engineering Science, 2021, 230, 116234.	1.9	25
9	Monochromatic Carbon Nanotube Tangles Grown by Microfluidic Switching between Chaos and Fractals. ACS Nano, 2021, 15, 5129-5137.	7.3	5
10	Transport Phenomena in Zeolites in View of Graph Theory and Pseudoâ€Phase Transition. Small, 2020, 16, 1901979.	5.2	5
11	Model and experimental study of relationship between solid fraction and back-mixing in a fluidized bed. Powder Technology, 2020, 363, 146-151.	2.1	12
12	Controlled growth of crossed ultralong carbon nanotubes by gas flow. Nano Research, 2020, 13, 1988-1995.	5.8	7
13	Suppressing the Side Reaction by a Selective Blocking Layer to Enhance the Performance of Si-Based Anodes. Nano Letters, 2020, 20, 5176-5184.	4.5	39
14	Stability Analysis of Gasâ€“Solid Distribution through Nonidentical Parallel Paths. Industrial & Engineering Chemistry Research, 2020, 59, 6707-6715.	1.8	6
15	Silicon Carbide as a Protective Layer to Stabilize Si-Based Anodes by Inhibiting Chemical Reactions. Nano Letters, 2019, 19, 5124-5132.	4.5	91
16	Rate-selected growth of ultrapure semiconducting carbon nanotube arrays. Nature Communications, 2019, 10, 4467.	5.8	57
17	Uniform coating of nano-carbon layer on SiOx in aggregated fluidized bed as high-performance anode material. Carbon, 2019, 149, 462-470.	5.4	38
18	Heterogeneous catalysis in multiâ€stage fluidized bed reactors: From fundamental study to industrial application. Canadian Journal of Chemical Engineering, 2019, 97, 636-644.	0.9	10

#	Article	IF	Citations
19	Experimental study of non-uniform bubble growth in deep fluidized beds. Chemical Engineering Science, 2018, 176, 515-523.	1.9	23
20	Carbon nanotube bundles with tensile strength over 80 GPa. Nature Nanotechnology, 2018, 13, 589-595.	15.6	283
21	Controlled Synthesis of Ultralong Carbon Nanotubes with Perfect Structures and Extraordinary Properties. Accounts of Chemical Research, 2017, 50, 179-189.	7.6	83
22	Establishing a discrete Ising model for zeolite deactivation: inspiration from the game of Go. Catalysis Science and Technology, 2017, 7, 2440-2444.	2.1	20
23	Instability of uniform fluidization. Chemical Engineering Science, 2017, 173, 187-195.	1.9	12
24	The analysis of hot spots in large scale fluidized bed reactors. RSC Advances, 2017, 7, 20186-20191.	1.7	5
25	Design of parallel cyclones based on stability analysis. AICHE Journal, 2016, 62, 4251-4258.	1.8	14
26	Acoustic-assisted assembly of an individual monochromatic ultralong carbon nanotube for high on-current transistors. Science Advances, 2016, 2, e1601572.	4.7	32
27	Conversion of methanol with C5â€“C6 hydrocarbons into aromatics in a two-stage fluidized bed reactor. Catalysis Today, 2016, 264, 63-69.	2.2	32
28	Directly correlating the strain-induced electronic property change to the chirality of individual single-walled and few-walled carbon nanotubes. Nanoscale, 2015, 7, 13116-13124.	2.8	4
29	The Road for Nanomaterials Industry: A Review of Carbon Nanotube Production, Postâ€Treatment, and Bulk Applications for Composites and Energy Storage. Small, 2013, 9, 1237-1265.	5.2	617
30	Growth of Half-Meter Long Carbon Nanotubes Based on Schulzâ€“Flory Distribution. ACS Nano, 2013, 7, 6156-6161.	7.3	308
31	100â€‰mm Long, Semiconducting Tripleâ€Walled Carbon Nanotubes. Advanced Materials, 2010, 22, 1867-1871.	11.1	91
32	Growing 20 cm Long DWNTs/TWNTs at a Rapid Growth Rate of 80â^'90 Î¼m/s. Chemistry of Materials, 2010, 22, 1294-1296.	3.2	88
33	Gas-Phase Catalytic Hydrochlorination of Acetylene in a Two-Stage Fluidized-Bed Reactor. Industrial & Engineering Chemistry Research, 2009, 48, 128-133.	1.8	61
34	Gaseous catalytic hydrogenation of nitrobenzene to aniline in a two-stage fluidized bed reactor. Applied Catalysis A: General, 2005, 286, 30-35.	2.2	86
35	Gas and solids mixing in a turbulent fluidized bed. AICHE Journal, 2002, 48, 1896-1909.	1.8	122
36	Transient density signal analysis and two-phase micro-structure flow in gasâ€“solids fluidization. Chemical Engineering Science, 2001, 56, 2179-2189.	1.9	72