

Mingyang Chen

List of Publications by Year in descending order

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papers

623
citations

567281
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h-index

677142
22
g-index

40
all docs

40
docs citations

40
times ranked

311
citing authors

#	ARTICLE	IF	CITATIONS
1	Caking of crystals: Characterization, mechanisms and prevention. Powder Technology, 2018, 337, 51-67.	4.2	49
2	Solubility of L-histidine in different aqueous binary solvent mixtures from 283.15 K to 318.15 K with experimental measurement and thermodynamic modelling. Journal of Chemical Thermodynamics, 2017, 105, 1-14.	2.0	36
3	Design and mechanism of the formation of spherical KCl particles using cooling crystallization without additives. Powder Technology, 2018, 329, 455-462.	4.2	32
4	Oiling-Out Investigation and Morphology Control of β -Alanine Based on Ternary Phase Diagrams. Crystal Growth and Design, 2018, 18, 818-826.	3.0	32
5	Solubility Measurement and Data Correlation of 5,5-Dimethylhydantoin in 12 Pure Solvents at Temperatures from 283.15 to 323.15 K. Journal of Chemical & Engineering Data, 2020, 65, 814-820.	1.9	32
6	Strategy of selecting solvent systems for spherical agglomeration by the Lifshitz-van der Waals acid-base approach. Chemical Engineering Science, 2020, 220, 115613.	3.8	25
7	Amorphous and humidity caking: A review. Chinese Journal of Chemical Engineering, 2019, 27, 1429-1438.	3.5	24
8	Highly-efficient production of spherical co-agglomerates of drugs via an organic solvent-free process and a mechanism study. Green Chemistry, 2021, 23, 2710-2721.	9.0	22
9	Design of Spherical Crystallization of Active Pharmaceutical Ingredients via a Highly Efficient Strategy: From Screening to Preparation. ACS Sustainable Chemistry and Engineering, 2021, 9, 9018-9032.	6.7	21
10	Spherical agglomeration of high melting point drugs in water at low temperature by developing a two-step oiling-out mechanism and the design strategy. Green Chemistry, 2022, 24, 5779-5791.	9.0	21
11	Solubility Measurement and Data Correlation of Clopidogrel Hydrogen Sulfate (Form I) in Four Binary Solvents Systems at Temperature from 278.15 to 318.15 K. Journal of Chemical & Engineering Data, 2020, 65, 2903-2911.	1.9	20
12	Understanding the solid-liquid phase equilibrium of 3,5-dimethoxybenzoic acid in thirteen pure solvents by thermodynamic analysis and molecular simulation. Journal of Molecular Liquids, 2021, 332, 115882.	4.9	20
13	Caking and adhesion free energy of maltitol: Studying of mechanism in adhesion process. Powder Technology, 2015, 272, 235-240.	4.2	17
14	Phase Transfer Directed Synthesis of Hollow Zeolitic Imidazolate Frameworks-67 Nanocages. Crystal Growth and Design, 2017, 17, 3-6.	3.0	17
15	Design of the spherical agglomerate size in crystallization by developing a two-step bridging mechanism and the model. AIChE Journal, 2022, 68, e17526.	3.6	17
16	Transformation between Two Types of Spherulitic Growth: Tuning the Morphology of Spherulitic Nitroguanidine in a Gelatin Solution. Industrial & Engineering Chemistry Research, 2020, 59, 21167-21176.	3.7	16
17	Spherical Crystallization and the Mechanism of Clopidogrel Hydrogen Sulfate. Chemical Engineering and Technology, 2018, 41, 1259-1265.	1.5	15
18	Revealing dissolution behavior of o-methoxybenzoic acid in twelve pure solvents using thermodynamic analysis and molecular simulation. Journal of Molecular Liquids, 2021, 336, 116242.	4.9	15

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19	Agglomeration Mechanism of Azithromycin Dihydrate in Acetone-Water Mixtures and Optimization of the Powder Properties. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4905-4910.	3.7	14
20	Investigation of Drug-Polymer Miscibility, Molecular Interaction, and Their Effects on the Physical Stabilities and Dissolution Behaviors of Norfloxacin Amorphous Solid Dispersions. <i>Crystal Growth and Design</i> , 2020, 20, 2952-2964.	3.0	14
21	Solvent penetration mediated phase transformation for the preparation of aggregated particles with well-defined shape. <i>CrystEngComm</i> , 2016, 18, 9223-9226.	2.6	13
22	Solvent-Mediated Nonoriented Self-Aggregation Transformation: A Case Study of Gabapentin. <i>Crystal Growth and Design</i> , 2017, 17, 4207-4216.	3.0	13
23	Controlled Recrystallization of Tubular Vinpocetine Crystals with Increased Aqueous Dissolution Rate and <i>In Vivo</i> Bioavailability. <i>Crystal Growth and Design</i> , 2017, 17, 5790-5800.	3.0	12
24	Design of spherical agglomerates via crystallization with a non-toxic bridging liquid: From mechanism to application. <i>Powder Technology</i> , 2022, 408, 117725.	4.2	12
25	Mechanism and inhibition of trisodium phosphate particle caking: Effect of particle shape and solubility. <i>Particuology</i> , 2016, 27, 115-121.	3.6	11
26	Measurement and Correlation of Solubility of Cefathiamidine in Water + (Acetone, Ethanol, or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46.	1.9	10
27	Seed-Assisted Effects on Solution-Mediated Phase Transformation: A Case Study of <scp>L</scp>-Histidine in Antisolvent Crystallization. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 784-793.	3.7	10
28	The time and location dependent prediction of crystal caking by a modified crystal bridge growth model and DEM simulation considering particle size and shape. <i>Chemical Engineering Science</i> , 2020, 214, 115419.	3.8	10
29	Equilibrium Solubility Determination and Dissolution Property Analysis of 5,6-Dimethoxy-1-indanone in 15 Pure Solvents from 283.15 to 323.15 K. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 1813-1820.	1.9	10
30	Machine learning-based solubility prediction and methodology evaluation of active pharmaceutical ingredients in industrial crystallization. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 523-535.	4.4	10
31	Crystal Structures and Phase Behavior of Sulfadiazine and a Method for the Preparation of Aggregates with Good Performance. <i>Chemical Engineering and Technology</i> , 2018, 41, 532-540.	1.5	8
32	Particle design of the metastable form of clopidogrel hydrogen sulfate by building spherulitic growth operating spaces in binary solvent systems. <i>Powder Technology</i> , 2021, 386, 70-80.	4.2	7
33	Improving separation efficiency of crystallization by ultrasound-accelerated nucleation: The role of solute diffusion and solvation effect. <i>Separation and Purification Technology</i> , 2022, 294, 121143.	7.9	7
34	Sustainable preparation of spherical amphoteric organics:Isoelectric point-spherical agglomeration technology. <i>Powder Technology</i> , 2022, 407, 117645.	4.2	7
35	Solubility Measurement and Data Correlation of 2,3-Dihydroxybenzoic Acid in 12 Monosolvents at Temperatures from 278.15 to 318.15 K. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 1435-1441.	1.9	6
36	Solubility Measurement and Data Correlation of Salicylanilide in 12 Pure Solvents at Temperatures Ranging from 283.15 to 323.15 K. <i>Journal of Chemical & Engineering Data</i> , 2021, 66, 1501-1507.	1.9	5

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37	Insights into the Role of Dipentaerythritol in the Thermodynamics and Nucleation Behavior of a Pentaerythritol–Water System. <i>Crystal Growth and Design</i> , 0, , .	3.0	5
38	Determination and Correlation of Solubility and Thermodynamic Properties of <i>trans</i> -Cinnamyl Alcohol in Pure and Binary Solvents from 253.15 K to 293.15 K. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 77-88.	1.9	4
39	Ternary phase diagram and the formation mechanism of two distinct solid solutions of amino acid systems: L-Valine/L-norvaline and L-valine/L-alanine. <i>Journal of Chemical Thermodynamics</i> , 2018, 119, 34-43.	2.0	2
40	Enhancing continuous reactive crystallization of lithium carbonate in multistage mixed suspension mixed product removal crystallizers with pulsed ultrasound. <i>Ultrasonics Sonochemistry</i> , 2021, 77, 105698.	8.2	2