

# Mingyang Chen

## List of Publications by Year in descending order

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40  
papers

623  
citations

567144

15  
h-index

677027

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. <i>Powder Technology</i> , 2018, 337, 51-67.	2.1	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. <i>Journal of Chemical Thermodynamics</i> , 2017, 105, 1-14.	1.0	36
3	Design and mechanism of the formation of spherical KCl particles using cooling crystallization without additives. <i>Powder Technology</i> , 2018, 329, 455-462.	2.1	32
4	Oiling-Out Investigation and Morphology Control of $\beta$ -Alanine Based on Ternary Phase Diagrams. <i>Crystal Growth and Design</i> , 2018, 18, 818-826.	1.4	32
5	Solubility Measurement and Data Correlation of 5,5-Dimethylhydantoin in 12 Pure Solvents at Temperatures from 283.15 to 323.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 814-820.	1.0	32
6	Strategy of selecting solvent systems for spherical agglomeration by the Lifshitz-van der Waals acid-base approach. <i>Chemical Engineering Science</i> , 2020, 220, 115613.	1.9	25
7	Amorphous and humidity caking: A review. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1429-1438.	1.7	24
8	Highly-efficient production of spherical co-agglomerates of drugs via an organic solvent-free process and a mechanism study. <i>Green Chemistry</i> , 2021, 23, 2710-2721.	4.6	22
9	Design of Spherical Crystallization of Active Pharmaceutical Ingredients via a Highly Efficient Strategy: From Screening to Preparation. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 9018-9032.	3.2	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. <i>Green Chemistry</i> , 2022, 24, 5779-5791.	4.6	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. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 2903-2911.	1.0	20
12	Understanding the solid-liquid phase equilibrium of 3,5-dimethoxybenzoic acid in thirteen pure solvents by thermodynamic analysis and molecular simulation. <i>Journal of Molecular Liquids</i> , 2021, 332, 115882.	2.3	20
13	Caking and adhesion free energy of maltitol: Studying of mechanism in adhesion process. <i>Powder Technology</i> , 2015, 272, 235-240.	2.1	17
14	Phase Transfer Directed Synthesis of Hollow Zeolitic Imidazolate Frameworks-67 Nanocages. <i>Crystal Growth and Design</i> , 2017, 17, 3-6.	1.4	17
15	Design of the spherical agglomerate size in crystallization by developing a two-step bridging mechanism and the model. <i>AIChE Journal</i> , 2022, 68, e17526.	1.8	17
16	Transformation between Two Types of Spherulitic Growth: Tuning the Morphology of Spherulitic Nitroguanidine in a Gelatin Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 21167-21176.	1.8	16
17	Spherical Crystallization and the Mechanism of Clopidogrel Hydrogen Sulfate. <i>Chemical Engineering and Technology</i> , 2018, 41, 1259-1265.	0.9	15
18	Revealing dissolution behavior of o-methoxybenzoic acid in twelve pure solvents using thermodynamic analysis and molecular simulation. <i>Journal of Molecular Liquids</i> , 2021, 336, 116242.	2.3	15

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19	Agglomeration Mechanism of Azithromycin Dihydrate in Acetone-Water Mixtures and Optimization of the Powder Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 4905-4910.	1.8	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.	1.4	14
21	Solvent penetration mediated phase transformation for the preparation of aggregated particles with well-defined shape. <i>CrystEngComm</i> , 2016, 18, 9223-9226.	1.3	13
22	Solvent-Mediated Nonoriented Self-Aggregation Transformation: A Case Study of Gabapentin. <i>Crystal Growth and Design</i> , 2017, 17, 4207-4216.	1.4	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.	1.4	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.	2.1	12
25	Mechanism and inhibition of trisodium phosphate particle caking: Effect of particle shape and solubility. <i>Particuology</i> , 2016, 27, 115-121.	2.0	11
26	Measurement and Correlation of Solubility of Cefathiamidine in Water + (Acetone, Ethanol, or) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46.	1.0	10
27	Seed-Assisted Effects on Solution-Mediated Phase Transformation: A Case Study of <i>l</i> -Histidine in Antisolvent Crystallization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 784-793.	1.8	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.	1.9	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 &amp; Engineering Data</i> , 2021, 66, 1813-1820.	1.0	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.	2.3	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.	0.9	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.	2.1	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.	3.9	7
34	Sustainable preparation of spherical amphoteric organics: Isoelectric point-spherical agglomeration technology. <i>Powder Technology</i> , 2022, 407, 117645.	2.1	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 &amp; Engineering Data</i> , 2021, 66, 1435-1441.	1.0	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 &amp; Engineering Data</i> , 2021, 66, 1501-1507.	1.0	5

#	ARTICLE	IF	CITATIONS
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, , .	1.4	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 &amp; Engineering Data</i> , 2018, 63, 77-88.	1.0	4
39	Ternary phase diagram and the formation mechanism of two distinct solid solutions of amino acid systems: <i>L</i> -Valine/ <i>L</i> -norvaline and <i>L</i> -valine/ <i>L</i> -alanine. <i>Journal of Chemical Thermodynamics</i> , 2018, 119, 34-43.	1.0	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.	3.8	2