Shijie Xu

List of Publications by Year
in descending order

72 papers	1,601 citations	304602 22 h-index	360920 35 g-index
72 all docs	72 docs citations	72 times ranked	1020 citing authors

#	Article	IF	Citations
1	Temperature and solvent dependent thermodynamic behavior of sulfathiazole. Journal of Molecular Liquids, 2022, 346, 117146.	2.3	3
2	Role of Additives in Crystal Nucleation from Solutions: A Review. Crystal Growth and Design, 2022, 22, 2001-2022.	1.4	31
3	Design of the spherical agglomerate size in crystallization by developing a twoâ€step bridging mechanism and the model. AICHE Journal, 2022, 68, e17526.	1.8	17
4	Nucleation Behaviors of Adipic Acid in Different Polarity Solvent Based on Metastable Zone Width. Crystals, 2022, 12, 202.	1.0	2
5	Uncover the effect of solvent and temperature on solid-liquid equilibrium behavior of 2-bromodibenzofuran. Journal of Chemical Thermodynamics, 2022, 171, 106813.	1.0	3
6	Unraveling the Molecular Mechanisms That Influence the Color and Stability of Four Lutein Crystal Forms. Crystal Growth and Design, 2021, 21, 1762-1777.	1.4	2
7	Use of additives to regulate solute aggregation and direct conformational polymorph nucleation of pimelic acid. IUCrJ, 2021, 8, 161-167.	1.0	10
8	Review of Liquidâ€“Liquid Phase Separation in Crystallization: From Fundamentals to Application. Crystal Growth and Design, 2021, 21, 7306-7325.	1.4	43
9	Insights into the Role of Solvents in Nucleation Kinetics of Glutaric Acid from Metastable Zone Widths. Industrial & Engineering Chemistry Research, 2021, 60, 3073-3082.	1.8	17
10	Determination and correlation of binary molten solidâ€“liquid equilibria of tetramethyl biphenyl isomers. Journal of Chemical Thermodynamics, 2021, 158, 106407.	1.0	4
11	Uncover cooling rate and temperature dependent on nucleation behavior of nicotinic acid. Journal of Crystal Growth, 2021, 568-569, 126185.	0.7	5
12	Insights into solvent-dependent nucleation behavior of benzoic acid from metastable zone widths. Journal of Molecular Liquids, 2021, 343, 117634.	2.3	11
13	Modular Assembly of Drug and Monodisperse SPIONs for Superior Magnetic and T₂-Imaging Performance. Bioconjugate Chemistry, 2021, 32, 182-191.	1.8	4
14	The time and location dependent prediction of crystal caking by a modified crystal bridge growth model and DEM simulation considering particle size and shape. Chemical Engineering Science, 2020, 214, 115419.	1.9	10
15	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.	1.8	16
16	Interplay between Thermodynamics and Kinetics on Polymorphic Behavior of Vortioxetine Hydrobromide in Reactive Crystallization. Organic Process Research and Development, 2020, 24, 1233-1243.	1.3	6
17	Strategy of selecting solvent systems for spherical agglomeration by the Lifshitz-van der Waals acid-base approach. Chemical Engineering Science, 2020, 220, 115613.	1.9	25
18	Nucleation behavior of ethyl vanillin: Balance between chemical potential difference and saturation temperature. Journal of Molecular Liquids, 2020, 303, 112609.	2.3	18

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19	Overview of Secondary Nucleation: From Fundamentals to Application. Industrial & Engineering Chemistry Research, 2020, 59, 18335-18356.	1.8	42
20	Probing the structural pathway of conformational polymorph nucleation by comparing a series of Î±,Ï‰-alkanedicarboxylic acids. IUCrJ, 2020, 7, 422-433.	1.0	12
21	Drugâ€“drug salts of mefenamic acidolfenamic acid and piperazine to improve physicochemical properties for potential veterinary use. CrystEngComm, 2019, 21, 5284-5291.	1.3	10
22	Unveiling the Critical Roles of Aromatic Interactions in the Crystal Nucleation Pathway of Flufenamic Acid. Crystal Growth and Design, 2019, 19, 7175-7184.	1.4	19
23	Insight into the State Evolution of Norfloxacin as a Function of Drug Concentration in Norfloxacin-Vinylpyrrolidone/Hydroxypropyl Methylcellulose/Hydroxypropyl Methylcellulose Phthalate Solid Dispersions. Crystal Growth and Design, 2019, 19, 6239-6251.	1.4	7
24	Insight into the role of piperazine in the thermodynamics and nucleation kinetics of the triethylenediamineâ€“methyl tertiary butyl ether system. CrystEngComm, 2019, 21, 948-956.	1.3	23
25	The Phase Transformation and Formation Mechanism of Isostructural Solvates: A Case Study of Azoxystrobin. Crystal Growth and Design, 2019, 19, 1550-1558.	1.4	22
26	Coreâ€“Shell Structured Cyclodextrin Metalâ€“Organic Frameworks with Hierarchical Dye Encapsulation for Tunable Light Emission. Chemistry of Materials, 2019, 31, 1289-1295.	3.2	90
27	Surprising Effect of Carbon Chain Length on Inducing Ability of Additives: Elusive Form-II of Î³-Aminobutyric Acid (GABA) Induced by Sodium Carboxylate Additives. Crystal Growth and Design, 2019, 19, 3825-3833.	1.4	13
28	Tuning crystallization and stability of the metastable polymorph of <scp>dl</scp>-methionine by a structurally similar additive. CrystEngComm, 2019, 21, 3731-3739.	1.3	22
29	Coreâ€“Shell-Structured Cyclodextrin Metalâ€“Organic Frameworks for Programmable Cargo Release. ACS Applied Materials & Interfaces, 2019, 11, 16280-16284.	4.0	18
30	Influence of the Solvent Content on the Phase Transformation of Sulfadiazine N â€Methyl Pyrrolidone Solvate. Chemical Engineering and Technology, 2019, 42, 1435-1445.	0.9	4
31	Polymorphism and molecular conformations of nicosulfuron: structure, properties and desolvation process. CrystEngComm, 2019, 21, 2790-2798.	1.3	15
32	Control of Crystal Properties in a Mixed-Suspension Mixed-Product Removal Crystallizer: General Methods and the Effects of Secondary Nucleation. Crystal Growth and Design, 2019, 19, 3070-3084.	1.4	14
33	Solubility measurement, correlation and mixing thermodynamics properties of dapsone in twelve mono solvents. Journal of Molecular Liquids, 2019, 280, 175-181.	2.3	36
34	Revealing the critical role of template functional group ordering in the template-directed crystallization of pyrazinamide. CrystEngComm, 2019, 21, 6382-6389.	1.3	6
35	Interplay between Kinetics and Thermodynamics on the Probability Nucleation Rate of a Ureaâ€“Water Crystallization System. Crystal Growth and Design, 2018, 18, 2305-2315.	1.4	27
36	Effect of Mixing on the Particle Size Distribution of Paracetamol Continuous Cooling Crystallization Products Using a Computational Fluid Dynamicsâ€“Population Balance Equation Simulation. Crystal Growth and Design, 2018, 18, 2851-2863.	1.4	16

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37	Design and mechanism of the formation of spherical KCl particles using cooling crystallization without additives. Powder Technology, 2018, 329, 455-462.	2.1	32
38	Seed-Assisted Effects on Solution-Mediated Phase Transformation: A Case Study of <scp>l</scp>-Histidine in Antisolvent Crystallization. Industrial & Engineering Chemistry Research, 2018, 57, 784-793.	1.8	10
39	Oiling-Out Investigation and Morphology Control of Î²-Alanine Based on Ternary Phase Diagrams. Crystal Growth and Design, 2018, 18, 818-826.	1.4	32
40	Optimization of cooling strategy and seeding by FBRM analysis of batch crystallization. Journal of Crystal Growth, 2018, 486, 1-9.	0.7	24
41	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. Journal of Chemical Thermodynamics, 2018, 119, 34-43.	1.0	2
42	Caking of crystals: Characterization, mechanisms and prevention. Powder Technology, 2018, 337, 51-67.	2.1	49
43	Insight into Solvent-Dependent Conformational Polymorph Selectivity: The Case of Undecanedioic Acid. Crystal Growth and Design, 2018, 18, 5947-5956.	1.4	33
44	Revealing the roles of solvation in D-mannitol's polymorphic nucleation. CrystEngComm, 2018, 20, 7435-7445.	1.3	28
45	Novel Strategy to Control Polymorph Nucleation of Gamma Pyrazinamide by Preferred Intermolecular Interactions during Heterogeneous Nucleation. Crystal Growth and Design, 2018, 18, 4874-4879.	1.4	22
46	Measurement and Correlation of the Solubility of Pyrimethanil in Seven Monosolvents and Two Different Binary Mixed Solvents. Journal of Chemical & Engineering Data, 2018, 63, 2804-2812.	1.0	5
47	Thermodynamic study of solubility for pyrazinamide in ten solvents from T = (283.15 to 323.15) K. Journal of Chemical Thermodynamics, 2017, 112, 204-212.	1.0	34
48	Measurement and correlation of solubility of boscalid with thermodynamic analysis in pure and binary solvents from 288.15 K to 313.15 K. Journal of Chemical Thermodynamics, 2017, 112, 178-187.	1.0	24
49	Solidâ€“liquid phase equilibrium and thermodynamic analysis of prothioconazole in mono-solvents and binary solvents from 283.15 K to 313.15 K. Journal of Molecular Liquids, 2017, 240, 162-171.	2.3	13
50	Phase Transfer Directed Synthesis of Hollow Zeolitic Imidazolate Frameworks-67 Nanocages. Crystal Growth and Design, 2017, 17, 3-6.	1.4	17
51	Temperature and solvent dependent thermodynamic behavior of tetrabromobisphenol A. Journal of Molecular Liquids, 2017, 241, 150-162.	2.3	17
52	Solution-Mediated Phase Transformation of Argatroban: Ternary Phase Diagram, Rate-Determining Step, and Transformation Kinetics. Industrial & Engineering Chemistry Research, 2017, 56, 4539-4548.	1.8	18
53	Polymorphs of daidzein and intermolecular interaction effect on solution crystallization. CrystEngComm, 2017, 19, 7146-7153.	1.3	15
54	Controlled Recrystallization of Tubular Vinpocetine Crystals with Increased Aqueous Dissolution Rate and In Vivo Bioavailability. Crystal Growth and Design, 2017, 17, 5790-5800.	1.4	12

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55	Measurement and Correlation of the Solubility of Azoxystrobin in Seven Monosolvents and Two Different Binary Mixed Solvents. Journal of Chemical & Engineering Data, 2017, 62, 3967-3980.	1.0	22
56	Progress of Pharmaceutical Continuous Crystallization. Engineering, 2017, 3, 354-364.	3.2	150
57	Uncover the effect of solvent and temperature on solid-liquid equilibrium behavior of l-norvaline. Journal of Molecular Liquids, 2017, 243, 273-284.	2.3	11
58	Reply to â€œcommentary on â€˜effect of Î² -alanine and the solvent composition on the solubility of solvate of calcium d -pantothenate containing four molecules of methanol and one molecule of water (d) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.0	0
59	Solvent-Mediated Nonoriented Self-Aggregation Transformation: A Case Study of Gabapentin. Crystal Growth and Design, 2017, 17, 4207-4216.	1.4	13
60	Solubility Correlation and Thermodynamic Analysis of Sorafenib Free Base and Sorafenib Tosylate in Monosolvents and Binary Solvent Mixtures. Journal of Chemical & Engineering Data, 2017, 62, 259-267.	1.0	67
61	Determination and correlation of Avermectin B1a solubility in different binary solvent mixtures at temperatures from (283.15 to 313.15) K. Journal of Chemical Thermodynamics, 2017, 105, 253-266.	1.0	18
62	Determination and modelling of troxerutin solubility in eleven mono-solvents and (1,4-dioxane +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4 Thermodynamics, 2017, 104, 138-149.	1.0	37
63	Determination of metastable zone and induction time of analgin for cooling crystallization. Chinese Journal of Chemical Engineering, 2017, 25, 313-318.	1.7	25
64	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.	1.0	36
65	Effect of Î²-alanine and the solvent composition on the solubility of solvate of calcium d-pantothenate containing four molecules of methanol and one molecule of water (D-PCÂ·4MeOHÂ·1H2O). Journal of Chemical Thermodynamics, 2017, 106, 36-46.	1.0	6
66	Agglomeration Mechanism of Azithromycin Dihydrate in Acetoneâ€“Water Mixtures and Optimization of the Powder Properties. Industrial & Engineering Chemistry Research, 2016, 55, 4905-4910.	1.8	14
67	Determination and correlation of solubility and thermodynamic properties of eszopiclone in pure and mixed solvents. Journal of Molecular Liquids, 2016, 221, 1035-1044.	2.3	16
68	Solvent penetration mediated phase transformation for the preparation of aggregated particles with well-defined shape. CrystEngComm, 2016, 18, 9223-9226.	1.3	13
69	Nucleation behavior of eszopiclone-butyl acetate solutions from metastable zone widths. Chemical Engineering Science, 2016, 155, 248-257.	1.9	53
70	Solubility determination and thermodynamic modelling of allisartan isoproxil in different binary solvent mixtures from T= (278.15 to 313.15) K and mixing properties of solutions. Journal of Chemical Thermodynamics, 2016, 103, 432-445.	1.0	15
71	Oiling out and Polymorphism Control of Pyraclostrobin in Cooling Crystallization. Industrial & Engineering Chemistry Research, 2016, 55, 11631-11637.	1.8	27
72	Determination and correlation of pyridoxine hydrochloride solubility in different binary mixtures at temperatures from (278.15 to 313.15)K. Journal of Chemical Thermodynamics, 2016, 94, 138-151.	1.0	68