

Shijie Xu

List of Publications by Year in descending order

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Version: 2024-02-01

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	Progress of Pharmaceutical Continuous Crystallization. <i>Engineering</i> , 2017, 3, 354-364.	3.2	150
2	Core-Shell Structured Cyclodextrin Metal-Organic Frameworks with Hierarchical Dye Encapsulation for Tunable Light Emission. <i>Chemistry of Materials</i> , 2019, 31, 1289-1295.	3.2	90
3	Determination and correlation of pyridoxine hydrochloride solubility in different binary mixtures at temperatures from (278.15 to 313.15)K. <i>Journal of Chemical Thermodynamics</i> , 2016, 94, 138-151.	1.0	68
4	Solubility Correlation and Thermodynamic Analysis of Sorafenib Free Base and Sorafenib Tosylate in Monosolvents and Binary Solvent Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 259-267.	1.0	67
5	Nucleation behavior of eszopiclone-butyl acetate solutions from metastable zone widths. <i>Chemical Engineering Science</i> , 2016, 155, 248-257.	1.9	53
6	Caking of crystals: Characterization, mechanisms and prevention. <i>Powder Technology</i> , 2018, 337, 51-67.	2.1	49
7	Review of Liquid-Liquid Phase Separation in Crystallization: From Fundamentals to Application. <i>Crystal Growth and Design</i> , 2021, 21, 7306-7325.	1.4	43
8	Overview of Secondary Nucleation: From Fundamentals to Application. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 18335-18356.	1.8	42
9	Determination and modelling of troxerutin solubility in eleven mono-solvents and (1,4-dioxane +) Tj ETQq1 1 0.784314 rgBT /Overl Thermodynamics, 2017, 104, 138-149.	1.0	37
10	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
11	Solubility measurement, correlation and mixing thermodynamics properties of dapsone in twelve mono solvents. <i>Journal of Molecular Liquids</i> , 2019, 280, 175-181.	2.3	36
12	Thermodynamic study of solubility for pyrazinamide in ten solvents from T = (283.15 to 323.15) K. <i>Journal of Chemical Thermodynamics</i> , 2017, 112, 204-212.	1.0	34
13	Insight into Solvent-Dependent Conformational Polymorph Selectivity: The Case of Undecanedioic Acid. <i>Crystal Growth and Design</i> , 2018, 18, 5947-5956.	1.4	33
14	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
15	Oiling-Out Investigation and Morphology Control of β -Alanine Based on Ternary Phase Diagrams. <i>Crystal Growth and Design</i> , 2018, 18, 818-826.	1.4	32
16	Role of Additives in Crystal Nucleation from Solutions: A Review. <i>Crystal Growth and Design</i> , 2022, 22, 2001-2022.	1.4	31
17	Revealing the roles of solvation in D-mannitol's polymorphic nucleation. <i>CrystEngComm</i> , 2018, 20, 7435-7445.	1.3	28
18	Oiling out and Polymorphism Control of Pyraclostrobin in Cooling Crystallization. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 11631-11637.	1.8	27

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19	Interplay between Kinetics and Thermodynamics on the Probability Nucleation Rate of a Urea-Water Crystallization System. <i>Crystal Growth and Design</i> , 2018, 18, 2305-2315.	1.4	27
20	Determination of metastable zone and induction time of analgin for cooling crystallization. <i>Chinese Journal of Chemical Engineering</i> , 2017, 25, 313-318.	1.7	25
21	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
22	Measurement and correlation of solubility of boscalid with thermodynamic analysis in pure and binary solvents from 288.15 K to 313.15 K. <i>Journal of Chemical Thermodynamics</i> , 2017, 112, 178-187.	1.0	24
23	Optimization of cooling strategy and seeding by FBRM analysis of batch crystallization. <i>Journal of Crystal Growth</i> , 2018, 486, 1-9.	0.7	24
24	Insight into the role of piperazine in the thermodynamics and nucleation kinetics of the triethylenediamine-methyl tertiary butyl ether system. <i>CrystEngComm</i> , 2019, 21, 948-956.	1.3	23
25	Measurement and Correlation of the Solubility of Azoxystrobin in Seven Monosolvents and Two Different Binary Mixed Solvents. <i>Journal of Chemical & Engineering Data</i> , 2017, 62, 3967-3980.	1.0	22
26	Novel Strategy to Control Polymorph Nucleation of Gamma Pyrazinamide by Preferred Intermolecular Interactions during Heterogeneous Nucleation. <i>Crystal Growth and Design</i> , 2018, 18, 4874-4879.	1.4	22
27	The Phase Transformation and Formation Mechanism of Isostructural Solvates: A Case Study of Azoxystrobin. <i>Crystal Growth and Design</i> , 2019, 19, 1550-1558.	1.4	22
28	Tuning crystallization and stability of the metastable polymorph of L-methionine by a structurally similar additive. <i>CrystEngComm</i> , 2019, 21, 3731-3739.	1.3	22
29	Unveiling the Critical Roles of Aromatic Interactions in the Crystal Nucleation Pathway of Flufenamic Acid. <i>Crystal Growth and Design</i> , 2019, 19, 7175-7184.	1.4	19
30	Solution-Mediated Phase Transformation of Argatroban: Ternary Phase Diagram, Rate-Determining Step, and Transformation Kinetics. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4539-4548.	1.8	18
31	Determination and correlation of Avermectin B1a solubility in different binary solvent mixtures at temperatures from (283.15 to 313.15) K. <i>Journal of Chemical Thermodynamics</i> , 2017, 105, 253-266.	1.0	18
32	Core-Shell-Structured Cyclodextrin Metal-Organic Frameworks for Programmable Cargo Release. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 16280-16284.	4.0	18
33	Nucleation behavior of ethyl vanillin: Balance between chemical potential difference and saturation temperature. <i>Journal of Molecular Liquids</i> , 2020, 303, 112609.	2.3	18
34	Phase Transfer Directed Synthesis of Hollow Zeolitic Imidazolate Frameworks-67 Nanocages. <i>Crystal Growth and Design</i> , 2017, 17, 3-6.	1.4	17
35	Temperature and solvent dependent thermodynamic behavior of tetrabromobisphenol A. <i>Journal of Molecular Liquids</i> , 2017, 241, 150-162.	2.3	17
36	Insights into the Role of Solvents in Nucleation Kinetics of Glutaric Acid from Metastable Zone Widths. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 3073-3082.	1.8	17

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37	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
38	Determination and correlation of solubility and thermodynamic properties of eszopiclone in pure and mixed solvents. <i>Journal of Molecular Liquids</i> , 2016, 221, 1035-1044.	2.3	16
39	Effect of Mixing on the Particle Size Distribution of Paracetamol Continuous Cooling Crystallization Products Using a Computational Fluid Dynamics Population Balance Equation Simulation. <i>Crystal Growth and Design</i> , 2018, 18, 2851-2863.	1.4	16
40	Transformation between Two Types of Spherulitic Growth: Tuning the Morphology of Spherulitic Nitroguanidine in a Gelatin Solution. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 21167-21176.	1.8	16
41	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. <i>Journal of Chemical Thermodynamics</i> , 2016, 103, 432-445.	1.0	15
42	Polymorphs of daidzein and intermolecular interaction effect on solution crystallization. <i>CrystEngComm</i> , 2017, 19, 7146-7153.	1.3	15
43	Polymorphism and molecular conformations of nicosulfuron: structure, properties and desolvation process. <i>CrystEngComm</i> , 2019, 21, 2790-2798.	1.3	15
44	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.	1.8	14
45	Control of Crystal Properties in a Mixed-Suspension Mixed-Product Removal Crystallizer: General Methods and the Effects of Secondary Nucleation. <i>Crystal Growth and Design</i> , 2019, 19, 3070-3084.	1.4	14
46	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
47	Solid-liquid phase equilibrium and thermodynamic analysis of prothioconazole in mono-solvents and binary solvents from 283.15 K to 313.15 K. <i>Journal of Molecular Liquids</i> , 2017, 240, 162-171.	2.3	13
48	Solvent-Mediated Nonoriented Self-Aggregation Transformation: A Case Study of Gabapentin. <i>Crystal Growth and Design</i> , 2017, 17, 4207-4216.	1.4	13
49	Surprising Effect of Carbon Chain Length on Inducing Ability of Additives: Elusive Form-II of β -Aminobutyric Acid (GABA) Induced by Sodium Carboxylate Additives. <i>Crystal Growth and Design</i> , 2019, 19, 3825-3833.	1.4	13
50	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
51	Probing the structural pathway of conformational polymorph nucleation by comparing a series of β -alkanedicarboxylic acids. <i>IUCr</i> , 2020, 7, 422-433.	1.0	12
52	Uncover the effect of solvent and temperature on solid-liquid equilibrium behavior of l-norvaline. <i>Journal of Molecular Liquids</i> , 2017, 243, 273-284.	2.3	11
53	Insights into solvent-dependent nucleation behavior of benzoic acid from metastable zone widths. <i>Journal of Molecular Liquids</i> , 2021, 343, 117634.	2.3	11
54	Seed-Assisted Effects on Solution-Mediated Phase Transformation: A Case Study of L-Histidine in Antisolvent Crystallization. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 784-793.	1.8	10

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55	Drug "drug salts of mefenamic acid/ufenamic acid and piperazine to improve physicochemical properties for potential veterinary use. CrystEngComm, 2019, 21, 5284-5291.	1.3	10
56	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
57	Use of additives to regulate solute aggregation and direct conformational polymorph nucleation of pimelic acid. IUCrj, 2021, 8, 161-167.	1.0	10
58	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
59	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-PCÃ·4MeOHÃ·1H2O). Journal of Chemical Thermodynamics, 2017, 106, 36-46.	1.0	6
60	Revealing the critical role of template functional group ordering in the template-directed crystallization of pyrazinamide. CrystEngComm, 2019, 21, 6382-6389.	1.3	6
61	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
62	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
63	Uncover cooling rate and temperature dependent on nucleation behavior of nicotinic acid. Journal of Crystal Growth, 2021, 568-569, 126185.	0.7	5
64	Influence of the Solvent Content on the Phase Transformation of Sulfadiazine N-Ã·Methyl Pyrrolidone Solvate. Chemical Engineering and Technology, 2019, 42, 1435-1445.	0.9	4
65	Determination and correlation of binary molten solid-liquid equilibria of tetramethyl biphenyl isomers. Journal of Chemical Thermodynamics, 2021, 158, 106407.	1.0	4
66	Modular Assembly of Drug and Monodisperse SPIONs for Superior Magnetic and T₂-Imaging Performance. Bioconjugate Chemistry, 2021, 32, 182-191.	1.8	4
67	Temperature and solvent dependent thermodynamic behavior of sulfathiazole. Journal of Molecular Liquids, 2022, 346, 117146.	2.3	3
68	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
69	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
70	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
71	Nucleation Behaviors of Adipic Acid in Different Polarity Solvent Based on Metastable Zone Width. Crystals, 2022, 12, 202.	1.0	2
72	Reply to "commentary on "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 rgBldOverlock 10 Tf 50		