

# Shichao Du

## List of Publications by Year in descending order

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92  
papers

1,848  
citations

279701

23  
h-index

360920

35  
g-index

92  
all docs

92  
docs citations

92  
times ranked

976  
citing authors

#	ARTICLE	IF	CITATIONS
1	Progress of Pharmaceutical Continuous Crystallization. <i>Engineering</i> , 2017, 3, 354-364.	3.2	150
2	Subcritical Water Extraction of Natural Products. <i>Molecules</i> , 2021, 26, 4004.	1.7	100
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	Correlation and thermodynamic analysis of solubility of diphenhydramine hydrochloride in pure and binary solvents. <i>Journal of Chemical Thermodynamics</i> , 2016, 93, 132-142.	1.0	58
5	Determination and correlation of solubility and thermodynamic properties of pyraclostrobin in pure and binary solvents. <i>Journal of Chemical Thermodynamics</i> , 2016, 101, 84-91.	1.0	54
6	Uncovering the solubility behavior of vitamin B6 hydrochloride in three aqueous binary solvents by thermodynamic analysis and molecular dynamic simulation. <i>Journal of Molecular Liquids</i> , 2019, 283, 584-595.	2.3	38
7	Determination and modelling of troxerutin solubility in eleven mono-solvents and (1,4-dioxane + Tj ETQq1 1 0.784314 rgBT /Overlock 1 Thermodynamics, 2017, 104, 138-149.	1.0	37
8	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
9	Measurement and correlation of solubility and dissolution properties of flunixin meglumine in pure and binary solvents. <i>Fluid Phase Equilibria</i> , 2015, 403, 145-152.	1.4	34
10	Measurement and Correlation of the Solubility of Penicillin V Potassium in Ethanol + Water and 1-Butyl Alcohol + Water Systems. <i>Journal of Chemical &amp; Engineering Data</i> , 2015, 60, 112-117.	1.0	33
11	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
12	Thermodynamic analysis and molecular dynamic simulation of solid-liquid phase equilibrium of imazapyr in twelve pure organic solvents. <i>Journal of Molecular Liquids</i> , 2021, 330, 115631.	2.3	33
13	Determination and correlation of solubility and thermodynamics of mixing of 4-aminobutyric acid in mono-solvents and binary solvent mixtures. <i>Journal of Chemical Thermodynamics</i> , 2016, 102, 276-286.	1.0	32
14	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
15	Determination and correlation of solubility and solution thermodynamics of oxiracetam in three (alcohol + water) binary solvents. <i>Journal of Chemical Thermodynamics</i> , 2016, 96, 12-23.	1.0	31
16	Solubility of Benzoin in Six Monosolvents and in Some Binary Solvent Mixtures at Various Temperatures. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 3071-3083.	1.0	31
17	Effects of Additives on the Morphology of Thiamine Nitrate: The Great Difference of Two Kinds of Similar Additives. <i>Crystal Growth and Design</i> , 2018, 18, 775-785.	1.4	31
18	The liquid-liquid phase separation and crystallization of vanillin in 1-propanol/water solution. <i>Fluid Phase Equilibria</i> , 2016, 409, 84-91.	1.4	28

#	ARTICLE	IF	CITATIONS
19	Oiling out and Polymorphism Control of Pyraclostrobin in Cooling Crystallization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 11631-11637.	1.8	27
20	Solid-liquid phase equilibrium of clozapine in aqueous binary solvent mixtures. <i>Journal of Molecular Liquids</i> , 2021, 329, 115371.	2.3	27
21	Exploring the physical stability of three nimesulide-indomethacin co-amorphous systems from the perspective of molecular aggregates. <i>European Journal of Pharmaceutical Sciences</i> , 2020, 147, 105294.	1.9	26
22	Determining the solubility and understanding the solid-liquid equilibrium behavior of cyhalothric acid in eleven pure solvents. <i>Journal of Molecular Liquids</i> , 2020, 300, 112365.	2.3	25
23	Solubility Measurement and Data Correlation of Thiabendazole in 12 Pure Organic Solvents from 283.15 to 323.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 5055-5061.	1.0	25
24	Solubility Measurement and Data Correlation of Isatoic Anhydride in 12 Pure Solvents at Temperatures from 288.15 to 328.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 2044-2052.	1.0	25
25	Experimental and Modeling Studies on the Solubility of <i>trans</i> -Pantolactone in Four Pure Solvents and Ethanol-Water Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , 2015, 60, 870-875.	1.0	24
26	Polymorph Control by Investigating the Effects of Solvent and Supersaturation on Clopidogrel Hydrogen Sulfate in Reactive Crystallization. <i>Crystal Growth and Design</i> , 2017, 17, 6123-6131.	1.4	24
27	Determination and Correlation of Solubility of Quetiapine Fumarate in Nine Pure Solvents and Two Aqueous Binary Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 4144-4153.	1.0	23
28	Measurement and Correlation of the Solubility of Azoxystrobin in Seven Monosolvents and Two Different Binary Mixed Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 3967-3980.	1.0	22
29	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
30	Design of Spherical Crystallization for Drugs Based on Thermal-Induced Liquid-Liquid Phase Separation: Case Studies of Water-Insoluble Drugs. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 20401-20411.	1.8	21
31	Two novel cocrystals of lamotrigine with isomeric bipyridines and in situ monitoring of the cocrystallization. <i>European Journal of Pharmaceutical Sciences</i> , 2017, 110, 19-25.	1.9	20
32	Crystal Structure, Stability and Desolvation of the Solvates of Sorafenib Tosylate. <i>Crystals</i> , 2019, 9, 367.	1.0	20
33	Determination and correlation of solubility of thiamine nitrate in water+ethanol mixtures and aqueous solution with different pH values from 278.15K to 303.15K. <i>Fluid Phase Equilibria</i> , 2015, 400, 53-61.	1.4	19
34	Crystal structure, thermal crystal form transformation, desolvation process and desolvation kinetics of two novel solvates of ciclesonide. <i>RSC Advances</i> , 2016, 6, 51037-51045.	1.7	19
35	Measurement of Solubility of Thiamine Hydrochloride Hemihydrate in Three Binary Solvents and Mixing Properties of Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 3665-3678.	1.0	19
36	Intermolecular Interactions and Solubility Behavior of Multicomponent Crystal Forms of Orotic Acid: Prediction and Experiments. <i>Crystal Growth and Design</i> , 2021, 21, 1473-1481.	1.4	19

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37	Measurement and Correlation of Solubility of $\hat{I}^3$ -Aminobutyric Acid in Different Binary Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , 2016, 61, 1210-1220.	1.0	18
38	Solution-Mediated Phase Transformation of Argatroban: Ternary Phase Diagram, Rate-Determining Step, and Transformation Kinetics. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 4539-4548.	1.8	18
39	Understanding the Roles of Oiling-out on Crystallization of $\hat{I}^2$ -Alanine: Unusual Behavior in Metastable Zone Width and Surface Nucleation during Growth Stage. <i>Crystal Growth and Design</i> , 2018, 18, 6885-6890.	1.4	18
40	Phase Transfer Directed Synthesis of Hollow Zeolitic Imidazolate Frameworks-67 Nanocages. <i>Crystal Growth and Design</i> , 2017, 17, 3-6.	1.4	17
41	Temperature and solvent dependent thermodynamic behavior of tetrabromobisphenol A. <i>Journal of Molecular Liquids</i> , 2017, 241, 150-162.	2.3	17
42	Crystal morphology optimization of thiamine hydrochloride in solvent system: Experimental and molecular dynamics simulation studies. <i>Journal of Crystal Growth</i> , 2018, 481, 48-55.	0.7	17
43	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
44	Thermodynamic and molecular investigation into the solubility, stability and self-assembly of gabapentin anhydrate and hydrate. <i>Journal of Chemical Thermodynamics</i> , 2017, 113, 132-143.	1.0	16
45	Spherulitic growth and morphology control of lithium carbonate: the stepwise evolution of core-shell structures. <i>Powder Technology</i> , 2019, 355, 617-628.	2.1	16
46	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
47	Temperature-dependent solubility of $\hat{I}^2$ -Alanine in different binary solvents from 288.15 K to 323.15 K: Measurement and thermodynamic modeling. <i>Journal of Molecular Liquids</i> , 2017, 232, 522-531.	2.3	15
48	Polymorphs of daidzein and intermolecular interaction effect on solution crystallization. <i>CrystEngComm</i> , 2017, 19, 7146-7153.	1.3	15
49	Spherical Crystallization and the Mechanism of Clopidogrel Hydrogen Sulfate. <i>Chemical Engineering and Technology</i> , 2018, 41, 1259-1265.	0.9	15
50	Correlation and Thermodynamic Analysis of Solubility of Mesotrione in Pure Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 877-884.	1.0	15
51	Solubility of Ibuprofen Sodium Dihydrate in Acetone + Water Mixtures: Experimental Measurement and Thermodynamic Modeling. <i>Journal of Chemical &amp; Engineering Data</i> , 2014, 59, 3415-3421.	1.0	14
52	Enhancing Stability and Formulation Capability of Fungicides by Cocrystallization through a Novel Multistep Slurry Conversion Process. <i>Crystal Growth and Design</i> , 2020, 20, 7356-7367.	1.4	14
53	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
54	Insight into the morphology and crystal growth of DL-methionine in aqueous solution with presence of cellulose polymers. <i>Journal of Molecular Liquids</i> , 2021, 343, 116967.	2.3	14

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55	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
56	Solvent-Mediated Nonoriented Self-Aggregation Transformation: A Case Study of Gabapentin. <i>Crystal Growth and Design</i> , 2017, 17, 4207-4216.	1.4	13
57	Surprising Effect of Carbon Chain Length on Inducing Ability of Additives: Elusive Form-II of $\beta$ -Aminobutyric Acid (GABA) Induced by Sodium Carboxylate Additives. <i>Crystal Growth and Design</i> , 2019, 19, 3825-3833.	1.4	13
58	Development and Structure Analysis of Crystal Forms of Apabetalone: Solvates and Polymorphs. <i>Crystal Growth and Design</i> , 2021, 21, 3864-3873.	1.4	13
59	Industrial Crystallization in China. <i>Chemical Engineering and Technology</i> , 2016, 39, 807-814.	0.9	12
60	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
61	Preparation and Formation Mechanism of L-Valine Spherulites via Evaporation Crystallization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 6048-6058.	1.8	12
62	Solid-liquid equilibrium of ropivacaine in fourteen organic solvents: An experimental and molecular simulation study. <i>Journal of Molecular Liquids</i> , 2022, 349, 118163.	2.3	12
63	Correlation and thermodynamic analysis of solubility of cefmetazole acid in three (alcohol + water) binary solvents at temperatures from 278.15 K to 303.15 K. <i>Journal of Chemical Thermodynamics</i> , 2016, 103, 355-365.	1.0	11
64	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
65	Impact of Affecting the Formation Defects in Vinpocetine Crystals. <i>Crystal Growth and Design</i> , 2020, 20, 3093-3103.	1.4	11
66	Measurement and correlation of solubility of meropenem trihydrate in binary (water +) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (acc 1461-1466.	1.7	10
67	Seed-Assisted Effects on Solution-Mediated Phase Transformation: A Case Study of L-Histidine in Antisolvent Crystallization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2018, 57, 784-793.	1.8	10
68	Fluorescent Ag-In-S/ZnS Quantum Dots for Tumor Drainage Lymph Node Imaging <i>In Vivo</i> . <i>ACS Applied Nano Materials</i> , 2021, 4, 1029-1037.	2.4	10
69	Electrochemiluminescence ultrasensitive immunoassay for carbohydrate antigen 125 based on AgInS <sub>2</sub> /ZnS nanocrystals. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 2207-2215.	1.9	9
70	Solubility Measurement and Data Correlation of Metformin Hydrochloride in Four Aqueous Binary Solvents and Three Pure Solvents from 283.15 to 323.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , 2021, 66, 3282-3292.	1.0	9
71	Solvates and polymorphs of clindamycin phosphate: Structural, thermal stability and moisture stability studies. <i>Frontiers of Chemical Science and Engineering</i> , 2017, 11, 220-230.	2.3	8
72	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

#	ARTICLE	IF	CITATIONS
73	Similar but Not the Same: Difference in the Ability to Form Cocrystals between Nimesulide and the Pyridine Analogues. <i>Crystal Growth and Design</i> , 2021, 21, 287-296.	1.4	8
74	Determination and Correlation of Solubility of Metformin Hydrochloride in Aqueous Binary Solvents from 283.15 to 323.15 K. <i>ACS Omega</i> , 2022, 7, 8591-8600.	1.6	8
75	Measurement and Correlation of the Solubility of Aminocaproic Acid in Some Pure and Binary Solvents. <i>Journal of Chemical &amp; Engineering Data</i> , 2019, 64, 5312-5323.	1.0	7
76	Revealing the role of anisotropic solvent interaction in crystal habit formation of nifedipine. <i>Journal of Crystal Growth</i> , 2020, 552, 125941.	0.7	7
77	The effect of solvents on solid-liquid phase equilibrium of Dimethyl sulfone. <i>Journal of Molecular Liquids</i> , 2020, 302, 112448.	2.3	7
78	Understanding the Reaction Crystallization Process of Glycidyl Trimethyl Ammonium Chloride. <i>Crystals</i> , 2021, 11, 449.	1.0	7
79	Rationalizing the Formation of Belinostat Solvates with Experimental Screening and Computational Predictions. <i>Crystal Growth and Design</i> , 2021, 21, 4986-4996.	1.4	7
80	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·1H <sub>2</sub> O). <i>Journal of Chemical Thermodynamics</i> , 2017, 106, 36-46.	1.0	6
81	Role of solvent properties and composition on the solid-liquid equilibrium of trifloxystrobin and thermodynamic analysis. <i>Journal of Molecular Liquids</i> , 2019, 294, 111566.	2.3	6
82	Uncover the effect of solvent on dissolution behavior of dimethylaminomicheliolide fumarate salt. <i>Journal of Molecular Liquids</i> , 2019, 293, 111448.	2.3	6
83	Interplay between Thermodynamics and Kinetics on Polymorphic Behavior of Vortioxetine Hydrobromide in Reactive Crystallization. <i>Organic Process Research and Development</i> , 2020, 24, 1233-1243.	1.3	6
84	Solubility Measurement, Correlation, and Thermodynamic Analysis of N-Acetyl-L-leucine in 12 Pure Organic Solvents from 283.15 to 323.15 K. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 2008-2016.	1.0	6
85	The Solid-Liquid Equilibrium and Crystal Habit of L-Carnitine Fumarate. <i>Journal of Chemical &amp; Engineering Data</i> , 2018, 63, 574-586.	1.0	5
86	Understanding the Effects of Upstream Impurities on the Oiling-Out and Crystallization of Î³-Aminobutyric Acid. <i>Organic Process Research and Development</i> , 2020, 24, 398-404.	1.3	5
87	Solubility Measurement and Correlation of Ceftiofur Sodium Trihydrate in Four Binary Solvent Mixtures. <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 916-922.	1.0	3
88	Additive-Induced Selective Crystallization of the Elusive Form III of Î³-Aminobutyric Acid. <i>Chemical Engineering and Technology</i> , 2020, 43, 1137-1143.	0.9	2
89	Optimizing the morphology of calcium D-pantothenate by controlling phase transformation processes. <i>CrystEngComm</i> , 2021, 23, 2162-2173.	1.3	2
90	Unraveling the Molecular Mechanisms That Influence the Color and Stability of Four Lutein Crystal Forms. <i>Crystal Growth and Design</i> , 2021, 21, 1762-1777.	1.4	2

#	ARTICLE	IF	CITATIONS
91	Solubility Measurement and Data Correlation of Pentaerythritol in Four Binary Solvent Systems at Temperatures from 283.15 to 323.15 K. Journal of Chemical & Engineering Data, 2021, 66, 2209-2217.	1.0	1
92	Reply to "commentary on "effect of L-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 rgB10 Overlook 10 Tf 50"		