Ãke C Rasmuson

List of Publications by Year
in descending order

137	4,610	87888	138484
papers	citations	38 h-index	58 g-index

137	137	137	3032
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solubility of Paracetamol in Pure Solvents. Journal of Chemical & Engineering Data, 1999, 44, 1391-1395.	1.9	321
2	Polymorphism and Crystallization ofp-Aminobenzoic Acid. Crystal Growth and Design, 2004, 4, 1013-1023.	3.0	122
3	Solubility and Melting Properties of Salicylic Acid. Journal of Chemical & Engineering Data, 2006, 51, 1668-1671.	1.9	122
4	Prediction of solubility curves and melting properties of organic and pharmaceutical compounds. European Journal of Pharmaceutical Sciences, 2009, 36, 330-344.	4.0	119
5	Solubility of Phenylacetic Acid,p-Hydroxyphenylacetic Acid,p-Aminophenylacetic Acid,p-Hydroxybenzoic Acid, and Ibuprofen in Pure Solvents. Journal of Chemical & Engineering Data, 2002, 47, 1379-1383.	1.9	108
6	Prediction of Solubility of Solid Organic Compounds in Solvents by UNIFAC. Industrial & Engineering Chemistry Research, 2002, 41, 5114-5124.	3.7	98
7	Investigating the Role of Solventâ€“Solute Interaction in Crystal Nucleation of Salicylic Acid from Organic Solvents. Journal of the American Chemical Society, 2014, 136, 11664-11673.	13.7	98
8	Influence of Ultrasound on the Nucleation of Polymorphs ofp-Aminobenzoic Acid. Crystal Growth and Design, 2005, 5, 1787-1794.	3.0	91
9	Separation of ND(III), DY(III) and Y(III) by solvent extraction using D2EHPA and EHEHPA. Hydrometallurgy, 2015, 156, 215-224.	4.3	85
10	Solubility of Benzoic Acid in Pure Solvents and Binary Mixtures. Journal of Chemical & Engineering Data, 2010, 55, 5124-5127.	1.9	82
11	Examining Solution and Solid State Composition for the Solution-Mediated Polymorphic Transformation of Carbamazepine and Piracetam. Crystal Growth and Design, 2012, 12, 1925-1932.	3.0	81
12	Solubility of Paracetamol in Binary and Ternary Mixtures of Water + Acetone + Toluene. Journal of Chemical & Engineering Data, 2000, 45, 478-483.	1.9	79
13	Influence of Agitation and Fluid Shear on Primary Nucleation in Solution. Crystal Growth and Design, 2013, 13, 4385-4394.	3.0	77
14	Spherical crystallization of benzoic acid. International Journal of Pharmaceutics, 2008, 348, 61-69.	5.2	73
15	Solubility of Butyl Paraben in Methanol, Ethanol, Propanol, Ethyl Acetate, Acetone, and Acetonitrile. Journal of Chemical & Engineering Data, 2010, 55, 5091-5093.	1.9	69
16	Influence of different scales of mixing in reaction crystallization. Chemical Engineering Science, 2001, 56, 2459-2473.	3.8	62
17	Influence of solvent on crystal nucleation of risperidone. Faraday Discussions, 2015, 179, 309-328.	3.2	62
18	Nucleation of Butyl Paraben in Different Solvents. Crystal Growth and Design, 2013, 13, 4226-4238.	3.0	61

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19	Application of controlled cooling and seeding in batch crystallization. Canadian Journal of Chemical Engineering, 1992, 70, 120-126.	1.7	59
20	Solubility of Form III Piracetam in a Range of Solvents. Journal of Chemical & Engineering Data, 2010, 55, 5314-5318.	1.9	59
21	Thermodynamics and Nucleation Kinetics of m-Aminobenzoic Acid Polymorphs. Crystal Growth and Design, 2010, 10, 195-204.	3.0	58
22	Reaction crystallization kinetics of benzoic acid. AICHE Journal, 2001, 47, 1544-1560.	3.6	56
23	Thermodynamics and Crystallization of the Theophyllineâ€“Glutaric Acid Cocrystal. Crystal Growth and Design, 2013, 13, 1153-1161.	3.0	55
24	Influence of Solvent and Solid-State Structure on Nucleation of Parabens. Crystal Growth and Design, 2014, 14, 3890-3902.	3.0	54
25	DTPA-Functionalized Silica Nano- and Microparticles for Adsorption and Chromatographic Separation of Rare Earth Elements. ACS Sustainable Chemistry and Engineering, 2018, 6, 6889-6900.	6.7	49
26	Crystal Nucleation of Tolbutamide in Solution: Relationship to Solvent, Solute Conformation, and Solution Structure. Chemistry - A European Journal, 2018, 24, 4916-4926.	3.3	49
27	Solution Mediated Polymorphic Transformation: Form II to Form III Piracetam in Ethanol. Crystal Growth and Design, 2012, 12, 6151-6157.	3.0	48
28	Determination of the activity of a molecular solute in saturated solution. Journal of Chemical Thermodynamics, 2008, 40, 1684-1692.	2.0	47
29	Solution-Mediated Polymorphic Transformation: Form II to Form III Piracetam in Organic Solvents. Crystal Growth and Design, 2014, 14, 3967-3974.	3.0	46
30	Growth and dissolution of succinic acid crystals in a batch stirred crystallizer. AICHE Journal, 1990, 36, 665-676.	3.6	45
31	Agglomeration of Paracetamol during Crystallization in Pure and Mixed Solvents. Industrial & Engineering Chemistry Research, 2004, 43, 629-637.	3.7	44
32	Investigation of Batch Cooling Crystallization in a Liquidâ€“Liquid Separating System by PAT. Organic Process Research and Development, 2012, 16, 1212-1224.	2.7	44
33	Influence of Agitation and Fluid Shear on Nucleation of m-Hydroxybenzoic Acid Polymorphs. Crystal Growth and Design, 2014, 14, 5521-5531.	3.0	44
34	Crystal nucleation of salicylic acid in organic solvents. CrystEngComm, 2015, 17, 3961-3973.	2.6	44
35	The theophyllineâ€“oxalic acid co-crystal system: solid phases, thermodynamics and crystallisation. CrystEngComm, 2012, 14, 4644.	2.6	41
36	Investigation into the Mechanism of Solution-Mediated Transformation from FI to FIII Carbamazepine: The Role of Dissolution and the Interaction between Polymorph Surfaces. Crystal Growth and Design, 2013, 13, 1861-1871.	3.0	41

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37	Thermodynamics and nucleation of the enantiotropic compound p-aminobenzoic acid. CrystEngComm, 2013, 15, 5020.	2.6	40
38	Solubility and Melting Properties of Salicylamide. Journal of Chemical & Engineering Data, 2006, 51, 1775-1777.	1.9	39
39	Solubility and Crystal Nucleation in Organic Solvents of Two Polymorphs of Curcumin. Journal of Pharmaceutical Sciences, 2015, 104, 2183-2189.	3.3	39
40	Phase Equilibria and Thermodynamics of p-Hydroxybenzoic Acid. Journal of Pharmaceutical Sciences, 2006, 95, 748-760.	3.3	38
41	Thermodynamics and crystallization of a theophyllineâ€“salicylic acid cocrystal. CrystEngComm, 2015, 17, 4125-4135.	2.6	38
42	Investigation of the Solid-State Polymorphic Transformations of Piracetam. Crystal Growth and Design, 2012, 12, 6223-6233.	3.0	37
43	Thermodynamics of fenofibrate and solubility in pure organic solvents. Fluid Phase Equilibria, 2014, 367, 143-150.	2.5	36
44	Extraction and Purification of Curcuminoids from Crude Curcumin by a Combination of Crystallization and Chromatography. Organic Process Research and Development, 2017, 21, 821-826.	2.7	36
45	Solubility of the Metastable Polymorph of Piracetam (Form II) in a Range of Solvents. Journal of Chemical & Engineering Data, 2012, 57, 3525-3531.	1.9	35
46	m-Hydroxybenzoic Acid: Quantifying Thermodynamic Stability and Influence of Solvent on the Nucleation of a Polymorphic System. Crystal Growth and Design, 2013, 13, 1140-1152.	3.0	35
47	Demonstrating the Influence of Solvent Choice and Crystallization Conditions on Phenacetin Crystal Habit and Particle Size Distribution. Organic Process Research and Development, 2015, 19, 1826-1836.	2.7	35
48	Influence of Agitation on Primary Nucleation in Stirred Tank Crystallizers. Crystal Growth and Design, 2015, 15, 4177-4184.	3.0	35
49	Process Parameters in the Purification of Curcumin by Cooling Crystallization. Organic Process Research and Development, 2016, 20, 1593-1602.	2.7	35
50	Influence of Additives on Nucleation of Vanillin:â€‰ Experiments and Introductory Molecular Simulations. Crystal Growth and Design, 2004, 4, 1025-1037.	3.0	34
51	Estimation of crystallization kinetics from batch cooling experiments. AICHE Journal, 1994, 40, 799-812.	3.6	33
52	Thermodynamics of molecular solids in organic solvents. Journal of Chemical Thermodynamics, 2012, 48, 150-159.	2.0	33
53	Influence of Structurally Related Impurities on the Crystal Nucleation of Curcumin. Crystal Growth and Design, 2018, 18, 4715-4723.	3.0	33
54	Nucleation and growth of succinic acid in a batch cooling crystallizer. AICHE Journal, 1991, 37, 1293-1304.	3.6	32

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55	Primary nucleation of salicylamide: the influence of process conditions and solvent on the metastable zone width. CrystEngComm, 2013, 15, 7285.	2.6	31
56	Investigation of solidâ€“liquid phase diagrams of the sulfamethazineâ€“salicylic acid co-crystal. CrystEngComm, 2019, 21, 2863-2874.	2.6	31
57	Mesomixing in semi-batch reaction crystallization and influence of reactor size. AICHE Journal, 2004, 50, 3107-3119.	3.6	30
58	Agglomeration and adhesion free energy of paracetamol crystals in organic solvents. AICHE Journal, 2007, 53, 2590-2605.	3.6	30
59	Influence of Solution Thermal and Structural History on the Nucleation of m-Hydroxybenzoic Acid Polymorphs. Crystal Growth and Design, 2012, 12, 4340-4348.	3.0	30
60	Ternary phase diagrams of ethyl paraben and propyl paraben in ethanol aqueous solvents. Fluid Phase Equilibria, 2014, 376, 69-75.	2.5	29
61	Phase equilibrium and mechanisms of crystallization in liquidâ€“liquid phase separating system. Fluid Phase Equilibria, 2015, 385, 120-128.	2.5	29
62	Prediction of Solid State Properties of Cocrystals Using Artificial Neural Network Modeling. Crystal Growth and Design, 2018, 18, 133-144.	3.0	28
63	Measuring the Solubility of a Quickly Transforming Metastable Polymorph of Carbamazepine. Organic Process Research and Development, 2013, 17, 512-518.	2.7	27
64	Prediction of the Solubility of Medium-Sized Pharmaceutical Compounds Using a Temperature-Dependent NRTL-SAC Model. Industrial & Engineering Chemistry Research, 2016, 55, 11150-11159.	3.7	27
65	Probing Crystal Nucleation of Fenoxycarb from Solution through the Effect of Solvent. Crystal Growth and Design, 2019, 19, 2037-2049.	3.0	27
66	Thermodynamics of risperidone and solubility in pure organic solvents. Fluid Phase Equilibria, 2014, 375, 73-79.	2.5	26
67	Influence of History of Solution in Crystal Nucleation of Fenoxycarb: Kinetics and Mechanisms. Crystal Growth and Design, 2014, 14, 905-915.	3.0	26
68	(Solid+liquid) solubility of organic compounds in organic solvents â€“ Correlation and extrapolation. Journal of Chemical Thermodynamics, 2014, 76, 124-133.	2.0	26
69	Recovery of rare earth elements from nitrophosphoric acid solutions. Hydrometallurgy, 2017, 169, 253-262.	4.3	26
70	Recoveries of Valuable Metals from Spent Nickel Metal Hydride Vehicle Batteries via Sulfation, Selective Roasting, and Water Leaching. Journal of Sustainable Metallurgy, 2018, 4, 313-325.	2.3	26
71	Separation of valuable elements from NiMH battery leach liquor via antisolvent precipitation. Separation and Purification Technology, 2020, 234, 115812.	7.9	25
72	Aging of Reaction-Crystallized Benzoic Acid. Industrial & Engineering Chemistry Research, 2004, 43, 6694-6702.	3.7	24

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73	Crystal growth rates of paracetamol in mixtures of water + acetone + toluene. AICHE Journal, 2005, 51, 2441-2456.	3.6	24
74	Investigation of the Particle Growth of Fenofibrate following Antisolvent Precipitation and Freezeâ€“Drying. Crystal Growth and Design, 2015, 15, 5213-5222.	3.0	24
75	Thermodynamic Stability Analysis of Tolbutamide Polymorphs andÂSolubility in Organic Solvents. Journal of Pharmaceutical Sciences, 2016, 105, 1901-1906.	3.3	23
76	Crystal Growth Kinetics of Piracetam Polymorphs in Ethanol and Isopropanol. Crystal Growth and Design, 2019, 19, 4273-4286.	3.0	23
77	Crystal Growth of Salicylic Acid in Organic Solvents. Crystal Growth and Design, 2017, 17, 2964-2974.	3.0	22
78	Crystal growth rate parameters from isothermal desupersaturation experiments. Chemical Engineering Science, 1991, 46, 1659-1667.	3.8	21
79	Stepwise Use of Additives for Improved Control over Formation and Stability of Mefenamic Acid Nanocrystals Produced by Antisolvent Precipitation. Crystal Growth and Design, 2017, 17, 454-466.	3.0	20
80	Mechanisms of initiation of incrustation. AICHE Journal, 1997, 43, 1300-1308.	3.6	19
81	Sandwich crystals of butyl paraben. CrystEngComm, 2014, 16, 8863-8873.	2.6	19
82	Size and Shape Control of Micron-Sized Salicylic Acid Crystals during Antisolvent Crystallization. Organic Process Research and Development, 2017, 21, 1732-1740.	2.7	19
83	Modeling of growth rate dispersion in batch cooling crystallization. AICHE Journal, 1992, 38, 1853-1863.	3.6	18
84	Solution-Mediated Polymorphic Transformation of FV Sulphathiazole. Crystal Growth and Design, 2014, 14, 3466-3471.	3.0	18
85	Solvent and additive interactions as determinants in the nucleation pathway: general discussion. Faraday Discussions, 2015, 179, 383-420.	3.2	18
86	Improving Estimates of the Crystallization Driving Force: Investigation into the Dependence on Temperature and Composition of Activity Coefficients in Solution. Crystal Growth and Design, 2016, 16, 6951-6960.	3.0	18
87	Estimation of Melting Temperature of Molecular Cocrystals Using Artificial Neural Network Model. Crystal Growth and Design, 2017, 17, 175-182.	3.0	18
88	Face indexing and shape analysis of salicylamide crystals grown in different solvents. CrystEngComm, 2019, 21, 2648-2659.	2.6	18
89	Solution mediated phase transformations between co-crystals. CrystEngComm, 2013, 15, 2044.	2.6	17
90	Thermodynamics of fenoxycarb in solution. Journal of Chemical Thermodynamics, 2013, 66, 50-58.	2.0	17

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91	Crystal Growth of Salicylamide in Organic Solvents. Crystal Growth and Design, 2018, 18, 7305-7315.	3.0	17
92	Solubility and thermodynamic analysis of ketoprofen in organic solvents. International Journal of Pharmaceutics, 2020, 588, 119686.	5.2	17
93	Calorimetric Determination of Cocrystal Thermodynamic Stability: Sulfamethazineâ€“Salicylic Acid Case Study. Crystal Growth and Design, 2020, 20, 4243-4251.	3.0	17
94	THE FORMATION OF SUBMICRON ORGANIC PARTICLES BY PRECIPITATION IN AN EMULSION. Journal of Dispersion Science and Technology, 1994, 15, 89-117.	2.4	16
95	Investigation into solid and solution properties of quinizarin. CrystEngComm, 2015, 17, 3985-3997.	2.6	16
96	Hydrodynamics of suspensions agitated by pitched-blade turbine. AICHE Journal, 1998, 44, 513-527.	3.6	15
97	Nucleation in the p-Toluenesulfonamide/Triphenylphosphine Oxide Co-crystal System. Crystal Growth and Design, 2013, 13, 3754-3762.	3.0	15
98	Carrier particle design for stabilization and isolation of drug nanoparticles. International Journal of Pharmaceutics, 2017, 518, 111-118.	5.2	15
99	Solute clustering in undersaturated solutions â€“ systematic dependence on time, temperature and concentration. Physical Chemistry Chemical Physics, 2018, 20, 15550-15559.	2.8	15
100	Promotion of Mefenamic Acid Nucleation by a Surfactant Additive, Docusate Sodium. Crystal Growth and Design, 2019, 19, 591-603.	3.0	15
101	Analysis and Artificial Neural Network Prediction of Melting Properties and Ideal Mole fraction Solubility of Cocrystals. Crystal Growth and Design, 2020, 20, 5745-5759.	3.0	14
102	Towards predictive simulation of single feed semibatch reaction crystallization. Chemical Engineering Science, 2009, 64, 1559-1576.	3.8	13
103	Analysis of FII crystals of sulfathiazole: epitaxial growth of FII on FIV. CrystEngComm, 2011, 13, 831-834.	2.6	13
104	Controlling the Product Crystal Size Distribution by Strategic Application of Ultrasonication. Crystal Growth and Design, 2018, 18, 1697-1709.	3.0	13
105	Nucleation of the Theophylline:Salicylic Acid 1:1 Cocrystal. Crystal Growth and Design, 2021, 21, 2711-2719.	3.0	13
106	Crystal Growth Kinetics of Pharmaceutical Compounds. Crystal Growth and Design, 2020, 20, 7626-7639.	3.0	13
107	Importance of macromixing in batch cooling crystallization. AICHE Journal, 1996, 42, 691-699.	3.6	12
108	Calorimetric Properties and Solubility in Five Pure Organic Solvents of N-Methyl-<scp>d</scp>-Glucamine (Meglumine). Journal of Chemical & Engineering Data, 2016, 61, 1199-1204.	1.9	11

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109	Crystal nucleation of salicylamide and a comparison with salicylic acid. CrystEngComm, 2020, 22, 3329-3339.	2.6	11
110	Solubility of Lobenzarit Disodium Salt in Ethanolâ^'Water Mixtures. Journal of Chemical & Engineering Data, 1998, 43, 681-682.	1.9	10
111	Thermodynamics of the Enantiotropic Pharmaceutical Compound Benzocaine and Solubility in Pure Organic Solvents. Journal of Pharmaceutical Sciences, 2020, 109, 3370-3377.	3.3	10
112	Growth kinetics of curcumin form I. CrystEngComm, 2020, 22, 3505-3518.	2.6	10
113	Pure Curcumin Spherulites from Impure Solutions via Nonclassical Crystallization. ACS Omega, 2021, 6, 23884-23900.	3.5	10
114	Semibatch reaction crystallization of salicylic acid. Chemical Engineering Research and Design, 2014, 92, 522-533.	5.6	9
115	On the estimation of crystallization driving forces. CrystEngComm, 2019, 21, 5164-5173.	2.6	7
116	Solid and Solution State Thermodynamics of Polymorphs of Butamben (Butyl 4-Aminobenzoate) in Pure Organic Solvents. Journal of Pharmaceutical Sciences, 2019, 108, 2377-2382.	3.3	7
117	Solubility of Salicylic Acid, Salicylamide, and Fenofibrate in Organic Solvents at Low Temperatures. Journal of Chemical & Engineering Data, 2020, 65, 4855-4861.	1.9	7
118	Characterization and Crystal Nucleation Kinetics of a New Metastable Polymorph of Piracetam in Alcoholic Solvents. Crystal Growth and Design, 2022, 22, 2964-2973.	3.0	7
119	Product concentration profile in strained reacting fluid films. Chemical Engineering Science, 1999, 54, 483-494.	3.8	6
120	EthylN-[2-(4-phenoxyphenoxy)ethyl]carbamate. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o2834-o2835.	0.2	6
121	Analysis of the structure and morphology of fenoxycarb crystals. Journal of Molecular Graphics and Modelling, 2014, 53, 92-99.	2.4	6
122	Drug Loading and Dissolution Properties of Dalcetrapibâ€“Montmorillonite Nanocomposite Microparticles. Organic Process Research and Development, 2020, 24, 977-987.	2.7	6
123	Ketoprofen Solubility in Pure Organic Solvents Using In Situ FTIR and UVâ€“Vis and Analysis of Solution Thermodynamics. Organic Process Research and Development, 2021, 25, 2403-2414.	2.7	6
124	Molecular Clustering of Fenoxycarb and Salicylic Acid in Organic Solvents and Relation to Crystal Nucleation. Crystal Growth and Design, 2022, 22, 2824-2836.	3.0	6
125	Solubility of Two Polymorphs of Tolbutamide in n-Propanol: Comparison of Methods. Journal of Pharmaceutical Sciences, 2020, 109, 3021-3026.	3.3	5
126	Single Crystal Growth Kinetics of Two Polymorphs of Piracetam. Crystal Growth and Design, 2021, 21, 5631-5640.	3.0	5

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127	Introduction to Crystallization of Fine Chemicals and Pharmaceuticals. , 2009, , 145-172.		4
128	Advanced Size Distribution Control in Batch Cooling Crystallization Using Ultrasound. Organic Process Research and Development, 2019, 23, 935-944.	2.7	4
129	Influence of solvent on crystal nucleation of benzocaine. CrystEngComm, 2020, 22, 8330-8342.	2.6	4
130	Crystallization of Stable and Metastable Phases of Phenylsuccinic Acid. Crystal Growth and Design, 2006, 6, 1143-1153.	3.0	3
131	Rationalising crystal nucleation of organic molecules in solution using artificial neural networks. CrystEngComm, 2019, 21, 449-461.	2.6	3
132	Nucleation in the Theophylline/Glutaric Acid Cocrystal System. Crystal Growth and Design, 2021, 21, 3967-3980.	3.0	3
133	Crystallization Process Analysis by Population Balance Modeling. , 2019, , 172-196.		2
134	Effects of structurally â€“ related impurities on the crystal growth of curcumin spherulites. CrystEngComm, 2022, 24, 5156-5169.	2.6	2
135	Structural and energetic aspects of the differences between real and predicted polymorphs. Crystal Research and Technology, 2010, 45, 867-878.	1.3	1
136	Isolation of Pharmaceutical Intermediates through Solid Supported Evaporation. Semicontinuous Operation Mode. Industrial & Engineering Chemistry Research, 2012, 51, 14814-14823.	3.7	0
137	Turbulence Characteristics around the Agitator in a Dilute Suspension.. Journal of Chemical Engineering of Japan, 2001, 34, 654-661.	0.6	0