

Ake C Rasmuson

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

134
papers

3,706
citations

34
h-index

52
g-index

137
ext. papers

4,148
ext. citations

3.6
avg. IF

5.89
L-index

#	Paper	IF	Citations
134	Characterization and Crystal Nucleation Kinetics of a New Metastable Polymorph of Piracetam in Alcoholic Solvents.. <i>Crystal Growth and Design</i> , 2022 , 22, 2964-2973	3.5	1
133	Nucleation of the Theophylline:Salicylic Acid 1:1 Cocrystal.. <i>Crystal Growth and Design</i> , 2021 , 21, 2711-2719	3.5	6
132	Nucleation in the Theophylline/Glutaric Acid Cocrystal System. <i>Crystal Growth and Design</i> , 2021 , 21, 3967-3980	3.5	1
131	Pure Curcumin Spherulites from Impure Solutions Nonclassical Crystallization. <i>ACS Omega</i> , 2021 , 6, 23884-23900	3.5	10
130	Calorimetric Determination of Cocrystal Thermodynamic Stability: Sulfamethazine/Salicylic Acid Case Study. <i>Crystal Growth and Design</i> , 2020 , 20, 4243-4251	3.5	10
129	Crystal Growth Kinetics of Pharmaceutical Compounds. <i>Crystal Growth and Design</i> , 2020 , 20, 7626-7639	3.5	1
128	Analysis and Artificial Neural Network Prediction of Melting Properties and Ideal Mole fraction Solubility of Cocrystals. <i>Crystal Growth and Design</i> , 2020 , 20, 5745-5759	3.5	9
127	Influence of solvent on crystal nucleation of benzocaine. <i>CrystEngComm</i> , 2020 , 22, 8330-8342	3.3	1
126	Thermodynamics of the Enantiotropic Pharmaceutical Compound Benzocaine and Solubility in Pure Organic Solvents. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 3370-3377	3.9	5
125	Solubility and thermodynamic analysis of ketoprofen in organic solvents. <i>International Journal of Pharmaceutics</i> , 2020 , 588, 119686	6.5	10
124	Solubility of Two Polymorphs of Tolbutamide in n-Propanol: Comparison of Methods. <i>Journal of Pharmaceutical Sciences</i> , 2020 , 109, 3021-3026	3.9	3
123	Solubility of Salicylic Acid, Salicylamide, and Fenofibrate in Organic Solvents at Low Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 4855-4861	2.8	2
122	Separation of valuable elements from NiMH battery leach liquor via antisolvent precipitation. <i>Separation and Purification Technology</i> , 2020 , 234, 115812	8.3	10
121	Growth kinetics of curcumin form I. <i>CrystEngComm</i> , 2020 , 22, 3505-3518	3.3	3
120	Crystal nucleation of salicylamide and a comparison with salicylic acid. <i>CrystEngComm</i> , 2020 , 22, 3329-3339	3.3	4
119	Drug Loading and Dissolution Properties of Dalcetrapib/Montmorillonite Nanocomposite Microparticles. <i>Organic Process Research and Development</i> , 2020 , 24, 977-987	3.9	2
118	Rationalising crystal nucleation of organic molecules in solution using artificial neural networks. <i>CrystEngComm</i> , 2019 , 21, 449-461	3.3	1

117	Crystal Growth Kinetics of Piracetam Polymorphs in Ethanol and Isopropanol. <i>Crystal Growth and Design</i> , 2019 , 19, 4273-4286	3.5	12
116	Solid and Solution State Thermodynamics of Polymorphs of Butamben (Butyl 4-Aminobenzoate) in Pure Organic Solvents. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 2377-2382	3.9	7
115	Advanced Size Distribution Control in Batch Cooling Crystallization Using Ultrasound. <i>Organic Process Research and Development</i> , 2019 , 23, 935-944	3.9	3
114	Probing Crystal Nucleation of Fenoxycarb from Solution through the Effect of Solvent. <i>Crystal Growth and Design</i> , 2019 , 19, 2037-2049	3.5	22
113	Face indexing and shape analysis of salicylamide crystals grown in different solvents. <i>CrystEngComm</i> , 2019 , 21, 2648-2659	3.3	15
112	Investigation of solid-liquid phase diagrams of the sulfamethazine-salicylic acid co-crystal. <i>CrystEngComm</i> , 2019 , 21, 2863-2874	3.3	22
111	On the estimation of crystallization driving forces. <i>CrystEngComm</i> , 2019 , 21, 5164-5173	3.3	5
110	Crystallization Process Analysis by Population Balance Modeling 2019 , 172-196		0
109	Promotion of Mefenamic Acid Nucleation by a Surfactant Additive, Docusate Sodium. <i>Crystal Growth and Design</i> , 2019 , 19, 591-603	3.5	9
108	Controlling the Product Crystal Size Distribution by Strategic Application of Ultrasonication. <i>Crystal Growth and Design</i> , 2018 , 18, 1697-1709	3.5	11
107	DTPA-Functionalized Silica Nano- and Microparticles for Adsorption and Chromatographic Separation of Rare Earth Elements. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6889-6900	8.3	27
106	Crystal Nucleation of Tolbutamide in Solution: Relationship to Solvent, Solute Conformation, and Solution Structure. <i>Chemistry - A European Journal</i> , 2018 , 24, 4916-4926	4.8	32
105	Recoveries of Valuable Metals from Spent Nickel Metal Hydride Vehicle Batteries via Sulfation, Selective Roasting, and Water Leaching. <i>Journal of Sustainable Metallurgy</i> , 2018 , 4, 313-325	2.7	18
104	Prediction of Solid State Properties of Cocrystals Using Artificial Neural Network Modeling. <i>Crystal Growth and Design</i> , 2018 , 18, 133-144	3.5	25
103	Crystal Growth of Salicylamide in Organic Solvents. <i>Crystal Growth and Design</i> , 2018 , 18, 7305-7315	3.5	11
102	Solute clustering in undersaturated solutions - systematic dependence on time, temperature and concentration. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 15550-15559	3.6	8
101	Influence of Structurally Related Impurities on the Crystal Nucleation of Curcumin. <i>Crystal Growth and Design</i> , 2018 , 18, 4715-4723	3.5	20
100	Recovery of rare earth elements from nitrophosphoric acid solutions. <i>Hydrometallurgy</i> , 2017 , 169, 253-262		21

99	Crystal Growth of Salicylic Acid in Organic Solvents. <i>Crystal Growth and Design</i> , 2017 , 17, 2964-2974	3.5	20
98	Extraction and Purification of Curcuminoids from Crude Curcumin by a Combination of Crystallization and Chromatography. <i>Organic Process Research and Development</i> , 2017 , 21, 821-826	3.9	22
97	Estimation of Melting Temperature of Molecular Cocrystals Using Artificial Neural Network Model. <i>Crystal Growth and Design</i> , 2017 , 17, 175-182	3.5	17
96	Stepwise Use of Additives for Improved Control over Formation and Stability of Mefenamic Acid Nanocrystals Produced by Antisolvent Precipitation. <i>Crystal Growth and Design</i> , 2017 , 17, 454-466	3.5	17
95	Size and Shape Control of Micron-Sized Salicylic Acid Crystals during Antisolvent Crystallization. <i>Organic Process Research and Development</i> , 2017 , 21, 1732-1740	3.9	11
94	Carrier particle design for stabilization and isolation of drug nanoparticles. <i>International Journal of Pharmaceutics</i> , 2017 , 518, 111-118	6.5	12
93	Process Parameters in the Purification of Curcumin by Cooling Crystallization. <i>Organic Process Research and Development</i> , 2016 , 20, 1593-1602	3.9	28
92	Prediction of the Solubility of Medium-Sized Pharmaceutical Compounds Using a Temperature-Dependent NRTL-SAC Model. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 11150-11159	3.9	23
91	Improving Estimates of the Crystallization Driving Force: Investigation into the Dependence on Temperature and Composition of Activity Coefficients in Solution. <i>Crystal Growth and Design</i> , 2016 , 16, 6951-6960	3.5	12
90	Calorimetric Properties and Solubility in Five Pure Organic Solvents of N-Methyl-d-Glucamine (Meglumine). <i>Journal of Chemical & Engineering Data</i> , 2016 , 61, 1199-1204	2.8	11
89	Thermodynamic Stability Analysis of Tolbutamide Polymorphs and Solubility in Organic Solvents. <i>Journal of Pharmaceutical Sciences</i> , 2016 , 105, 1901-1906	3.9	17
88	Influence of Agitation on Primary Nucleation in Stirred Tank Crystallizers. <i>Crystal Growth and Design</i> , 2015 , 15, 4177-4184	3.5	21
87	Influence of solvent on crystal nucleation of risperidone. <i>Faraday Discussions</i> , 2015 , 179, 309-28	3.6	46
86	Solvent and additive interactions as determinants in the nucleation pathway: general discussion. <i>Faraday Discussions</i> , 2015 , 179, 383-420	3.6	15
85	Thermodynamics and crystallization of a theophylline-salicylic acid cocrystal. <i>CrystEngComm</i> , 2015 , 17, 4125-4135	3.3	32
84	Investigation into solid and solution properties of quinizarin. <i>CrystEngComm</i> , 2015 , 17, 3985-3997	3.3	12
83	Investigation of the Particle Growth of Fenofibrate following Antisolvent Precipitation and Freeze-Drying. <i>Crystal Growth and Design</i> , 2015 , 15, 5213-5222	3.5	15
82	Phase equilibrium and mechanisms of crystallization in liquid-liquid phase separating system. <i>Fluid Phase Equilibria</i> , 2015 , 385, 120-128	2.5	24

81	Separation of ND(III), DY(III) and Y(III) by solvent extraction using D2EHPA and EHEHPA. <i>Hydrometallurgy</i> , 2015 , 156, 215-224	4	63
80	Solubility and crystal nucleation in organic solvents of two polymorphs of curcumin. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 2183-9	3.9	34
79	Crystal nucleation of salicylic acid in organic solvents. <i>CrystEngComm</i> , 2015 , 17, 3961-3973	3.3	35
78	Demonstrating the Influence of Solvent Choice and Crystallization Conditions on Phenacetin Crystal Habit and Particle Size Distribution. <i>Organic Process Research and Development</i> , 2015 , 19, 1826-1836	3.9	27
77	Thermodynamics of fenofibrate and solubility in pure organic solvents. <i>Fluid Phase Equilibria</i> , 2014 , 367, 143-150	2.5	32
76	Semibatch reaction crystallization of salicylic acid. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 522-533	5.5	7
75	Influence of Agitation and Fluid Shear on Nucleation of m-Hydroxybenzoic Acid Polymorphs. <i>Crystal Growth and Design</i> , 2014 , 14, 5521-5531	3.5	30
74	Sandwich crystals of butyl paraben. <i>CrystEngComm</i> , 2014 , 16, 8863-8873	3.3	14
73	Influence of History of Solution in Crystal Nucleation of Fenoxycarb: Kinetics and Mechanisms. <i>Crystal Growth and Design</i> , 2014 , 14, 905-915	3.5	21
72	Analysis of the structure and morphology of fenoxycarb crystals. <i>Journal of Molecular Graphics and Modelling</i> , 2014 , 53, 92-99	2.8	5
71	Solution-Mediated Polymorphic Transformation: Form II to Form III Piracetam in Organic Solvents. <i>Crystal Growth and Design</i> , 2014 , 14, 3967-3974	3.5	37
70	Investigating the role of solvent-solute interaction in crystal nucleation of salicylic acid from organic solvents. <i>Journal of the American Chemical Society</i> , 2014 , 136, 11664-73	16.4	73
69	Influence of Solvent and Solid-State Structure on Nucleation of Parabens. <i>Crystal Growth and Design</i> , 2014 , 14, 3890-3902	3.5	45
68	(Solid+liquid) solubility of organic compounds in organic solvents [Correlation and extrapolation. <i>Journal of Chemical Thermodynamics</i> , 2014 , 76, 124-133	2.9	19
67	Solution-Mediated Polymorphic Transformation of FV Sulphathiazole. <i>Crystal Growth and Design</i> , 2014 , 14, 3466-3471	3.5	17
66	Ternary phase diagrams of ethyl paraben and propyl paraben in ethanol aqueous solvents. <i>Fluid Phase Equilibria</i> , 2014 , 376, 69-75	2.5	22
65	Thermodynamics of risperidone and solubility in pure organic solvents. <i>Fluid Phase Equilibria</i> , 2014 , 375, 73-79	2.5	24
64	Primary nucleation of salicylamide: the influence of process conditions and solvent on the metastable zone width. <i>CrystEngComm</i> , 2013 , 15, 7285	3.3	28

63	Nucleation of Butyl Paraben in Different Solvents. <i>Crystal Growth and Design</i> , 2013 , 13, 4226-4238	3.5	53
62	Influence of Agitation and Fluid Shear on Primary Nucleation in Solution. <i>Crystal Growth and Design</i> , 2013 , 13, 4385-4394	3.5	57
61	Thermodynamics and nucleation of the enantiotropic compound p-aminobenzoic acid. <i>CrystEngComm</i> , 2013 , 15, 5020	3.3	36
60	Thermodynamics and Crystallization of the Theophylline-Glutaric Acid Cocrystal. <i>Crystal Growth and Design</i> , 2013 , 13, 1153-1161	3.5	40
59	m-Hydroxybenzoic Acid: Quantifying Thermodynamic Stability and Influence of Solvent on the Nucleation of a Polymorphic System. <i>Crystal Growth and Design</i> , 2013 , 13, 1140-1152	3.5	29
58	Solution mediated phase transformations between co-crystals. <i>CrystEngComm</i> , 2013 , 15, 2044	3.3	14
57	Investigation into the Mechanism of Solution-Mediated Transformation from FI to FIII Carbamazepine: The Role of Dissolution and the Interaction between Polymorph Surfaces. <i>Crystal Growth and Design</i> , 2013 , 13, 1861-1871	3.5	37
56	Measuring the Solubility of a Quickly Transforming Metastable Polymorph of Carbamazepine. <i>Organic Process Research and Development</i> , 2013 , 17, 512-518	3.9	26
55	Nucleation in the p-Toluenesulfonamide/Triphenylphosphine Oxide Co-crystal System. <i>Crystal Growth and Design</i> , 2013 , 13, 3754-3762	3.5	12
54	Thermodynamics of fenoxycarb in solution. <i>Journal of Chemical Thermodynamics</i> , 2013 , 66, 50-58	2.9	16
53	Thermodynamics of molecular solids in organic solvents. <i>Journal of Chemical Thermodynamics</i> , 2012 , 48, 150-159	2.9	28
52	Investigation of the Solid-State Polymorphic Transformations of Piracetam. <i>Crystal Growth and Design</i> , 2012 , 12, 6223-6233	3.5	29
51	Isolation of Pharmaceutical Intermediates through Solid Supported Evaporation. Semicontinuous Operation Mode. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 14814-14823	3.9	
50	Investigation of Batch Cooling Crystallization in a Liquid-Liquid Separating System by PAT. <i>Organic Process Research and Development</i> , 2012 , 16, 1212-1224	3.9	37
49	Influence of Solution Thermal and Structural History on the Nucleation of m-Hydroxybenzoic Acid Polymorphs. <i>Crystal Growth and Design</i> , 2012 , 12, 4340-4348	3.5	25
48	Solubility of the Metastable Polymorph of Piracetam (Form II) in a Range of Solvents. <i>Journal of Chemical & Engineering Data</i> , 2012 , 57, 3525-3531	2.8	29
47	Solution Mediated Polymorphic Transformation: Form II to Form III Piracetam in Ethanol. <i>Crystal Growth and Design</i> , 2012 , 12, 6151-6157	3.5	45
46	Examining Solution and Solid State Composition for the Solution-Mediated Polymorphic Transformation of Carbamazepine and Piracetam. <i>Crystal Growth and Design</i> , 2012 , 12, 1925-1932	3.5	69

45	The theophylline-oxalic acid co-crystal system: solid phases, thermodynamics and crystallisation. <i>CrystEngComm</i> , 2012 , 14, 4644	3.3	37
44	Ethyl N-[2-(4-phen-oxy-phen-oxy)eth-yl]carbamate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012 , 68, o2834-5		5
43	Analysis of FII crystals of sulfathiazole: epitaxial growth of FII on FIV. <i>CrystEngComm</i> , 2011 , 13, 831-834	3.3	11
42	Solubility of Benzoic Acid in Pure Solvents and Binary Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5124-5127	2.8	72
41	Thermodynamics and Nucleation Kinetics of m-Aminobenzoic Acid Polymorphs. <i>Crystal Growth and Design</i> , 2010 , 10, 195-204	3.5	54
40	Solubility of Form III Piracetam in a Range of Solvents. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5314-5318	2.8	56
39	Solubility of Butyl Paraben in Methanol, Ethanol, Propanol, Ethyl Acetate, Acetone, and Acetonitrile. <i>Journal of Chemical & Engineering Data</i> , 2010 , 55, 5091-5093	2.8	60
38	Structural and energetic aspects of the differences between real and predicted polymorphs. <i>Crystal Research and Technology</i> , 2010 , 45, 867-878	1.3	0
37	Prediction of solubility curves and melting properties of organic and pharmaceutical compounds. <i>European Journal of Pharmaceutical Sciences</i> , 2009 , 36, 330-44	5.1	98
36	Towards predictive simulation of single feed semibatch reaction crystallization. <i>Chemical Engineering Science</i> , 2009 , 64, 1559-1576	4.4	11
35	Introduction to Crystallization of Fine Chemicals and Pharmaceuticals 2009 , 145-172		
34	Determination of the activity of a molecular solute in saturated solution. <i>Journal of Chemical Thermodynamics</i> , 2008 , 40, 1684-1692	2.9	40
33	Spherical crystallization of benzoic acid. <i>International Journal of Pharmaceutics</i> , 2008 , 348, 61-9	6.5	53
32	Agglomeration and adhesion free energy of paracetamol crystals in organic solvents. <i>AIChE Journal</i> , 2007 , 53, 2590-2605	3.6	25
31	Phase equilibria and thermodynamics of p-hydroxybenzoic acid. <i>Journal of Pharmaceutical Sciences</i> , 2006 , 95, 748-60	3.9	32
30	Solubility and Melting Properties of Salicylamide. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1775-1777	2.8	34
29	Solubility and Melting Properties of Salicylic Acid. <i>Journal of Chemical & Engineering Data</i> , 2006 , 51, 1668-1671	2.8	100
28	Crystallization of Stable and Metastable Phases of Phenylsuccinic Acid. <i>Crystal Growth and Design</i> , 2006 , 6, 1143-1153	3.5	3

27	Influence of Ultrasound on the Nucleation of Polymorphs of p-Aminobenzoic Acid. <i>Crystal Growth and Design</i> , 2005 , 5, 1787-1794	3.5	86
26	Crystal growth rates of paracetamol in mixtures of water + acetone + toluene. <i>AIChE Journal</i> , 2005 , 51, 2441-2456	3.6	20
25	Polymorphism and Crystallization of p-Aminobenzoic Acid. <i>Crystal Growth and Design</i> , 2004 , 4, 1013-1023	3.5	110
24	Mesomixing in semi-batch reaction crystallization and influence of reactor size. <i>AIChE Journal</i> , 2004 , 50, 3107-3119	3.6	26
23	Aging of Reaction-Crystallized Benzoic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 6694-6702	3.9	22
22	Agglomeration of Paracetamol during Crystallization in Pure and Mixed Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 629-637	3.9	40
21	Influence of Additives on Nucleation of Vanillin: Experiments and Introductory Molecular Simulations. <i>Crystal Growth and Design</i> , 2004 , 4, 1025-1037	3.5	30
20	Solubility of Phenylacetic Acid, p-Hydroxyphenylacetic Acid, p-Aminophenylacetic Acid, p-Hydroxybenzoic Acid, and Ibuprofen in Pure Solvents. <i>Journal of Chemical & Engineering Data</i> , 2002 , 47, 1379-1383	2.8	100
19	Prediction of Solubility of Solid Organic Compounds in Solvents by UNIFAC. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 5114-5124	3.9	89
18	Reaction crystallization kinetics of benzoic acid. <i>AIChE Journal</i> , 2001 , 47, 1544-1560	3.6	48
17	Influence of different scales of mixing in reaction crystallization. <i>Chemical Engineering Science</i> , 2001 , 56, 2459-2473	4.4	53
16	Turbulence Characteristics around the Agitator in a Dilute Suspension. <i>Journal of Chemical Engineering of Japan</i> , 2001 , 34, 654-661	0.8	
15	Solubility of Paracetamol in Binary and Ternary Mixtures of Water + Acetone + Toluene. <i>Journal of Chemical & Engineering Data</i> , 2000 , 45, 478-483	2.8	64
14	Product concentration profile in strained reacting fluid films. <i>Chemical Engineering Science</i> , 1999 , 54, 483-494	4.4	6
13	Solubility of Paracetamol in Pure Solvents. <i>Journal of Chemical & Engineering Data</i> , 1999 , 44, 1391-1395	3.5	271
12	Hydrodynamics of suspensions agitated by pitched-blade turbine. <i>AIChE Journal</i> , 1998 , 44, 513-527	3.6	15
11	Solubility of Lobenzarit Disodium Salt in Ethanol/Water Mixtures. <i>Journal of Chemical & Engineering Data</i> , 1998 , 43, 681-682	2.8	10
10	Mechanisms of initiation of incrustation. <i>AIChE Journal</i> , 1997 , 43, 1300-1308	3.6	16

9	Importance of macromixing in batch cooling crystallization. <i>AICHE Journal</i> , 1996 , 42, 691-699	3.6	11
8	Estimation of crystallization kinetics from batch cooling experiments. <i>AICHE Journal</i> , 1994 , 40, 799-812	3.6	29
7	THE FORMATION OF SUBMICRON ORGANIC PARTICLES BY PRECIPITATION IN AN EMULSION. <i>Journal of Dispersion Science and Technology</i> , 1994 , 15, 89-117	1.5	12
6	Application of controlled cooling and seeding in batch crystallization. <i>Canadian Journal of Chemical Engineering</i> , 1992 , 70, 120-126	2.3	50
5	Modeling of growth rate dispersion in batch cooling crystallization. <i>AICHE Journal</i> , 1992 , 38, 1853-1863	3.6	15
4	Nucleation and growth of succinic acid in a batch cooling crystallizer. <i>AICHE Journal</i> , 1991 , 37, 1293-1304	3.6	23
3	Crystal growth rate parameters from isothermal desupersaturation experiments. <i>Chemical Engineering Science</i> , 1991 , 46, 1659-1667	4.4	19
2	Growth and dissolution of succinic acid crystals in a batch stirred crystallizer. <i>AICHE Journal</i> , 1990 , 36, 665-676	3.6	39
1	Ketoprofen Solubility in Pure Organic Solvents Using In Situ FTIR and UV-Vis and Analysis of Solution Thermodynamics. <i>Organic Process Research and Development</i> ,	3.9	1