

Åke C Rasmuson

List of Publications by Year in descending order

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papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Solubility of Paracetamol in Pure Solvents. <i>Journal of Chemical & Engineering Data</i> , 1999, 44, 1391-1395.	1.0	321
2	Polymorphism and Crystallization of p-Aminobenzoic Acid. <i>Crystal Growth and Design</i> , 2004, 4, 1013-1023.	1.4	122
3	Solubility and Melting Properties of Salicylic Acid. <i>Journal of Chemical & Engineering Data</i> , 2006, 51, 1668-1671.	1.0	122
4	Prediction of solubility curves and melting properties of organic and pharmaceutical compounds. <i>European Journal of Pharmaceutical Sciences</i> , 2009, 36, 330-344.	1.9	119
5	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.	1.0	108
6	Prediction of Solubility of Solid Organic Compounds in Solvents by UNIFAC. <i>Industrial & Engineering Chemistry Research</i> , 2002, 41, 5114-5124.	1.8	98
7	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, 11664-11673.	6.6	98
8	Influence of Ultrasound on the Nucleation of Polymorphs of p-Aminobenzoic Acid. <i>Crystal Growth and Design</i> , 2005, 5, 1787-1794.	1.4	91
9	Separation of ND(III), DY(III) and Y(III) by solvent extraction using D2EHPA and EHEHPA. <i>Hydrometallurgy</i> , 2015, 156, 215-224.	1.8	85
10	Solubility of Benzoic Acid in Pure Solvents and Binary Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 5124-5127.	1.0	82
11	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.	1.4	81
12	Solubility of Paracetamol in Binary and Ternary Mixtures of Water + Acetone + Toluene. <i>Journal of Chemical & Engineering Data</i> , 2000, 45, 478-483.	1.0	79
13	Influence of Agitation and Fluid Shear on Primary Nucleation in Solution. <i>Crystal Growth and Design</i> , 2013, 13, 4385-4394.	1.4	77
14	Spherical crystallization of benzoic acid. <i>International Journal of Pharmaceutics</i> , 2008, 348, 61-69.	2.6	73
15	Solubility of Butyl Paraben in Methanol, Ethanol, Propanol, Ethyl Acetate, Acetone, and Acetonitrile. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 5091-5093.	1.0	69
16	Influence of different scales of mixing in reaction crystallization. <i>Chemical Engineering Science</i> , 2001, 56, 2459-2473.	1.9	62
17	Influence of solvent on crystal nucleation of risperidone. <i>Faraday Discussions</i> , 2015, 179, 309-328.	1.6	62
18	Nucleation of Butyl Paraben in Different Solvents. <i>Crystal Growth and Design</i> , 2013, 13, 4226-4238.	1.4	61

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19	Application of controlled cooling and seeding in batch crystallization. <i>Canadian Journal of Chemical Engineering</i> , 1992, 70, 120-126.	0.9	59
20	Solubility of Form III Piracetam in a Range of Solvents. <i>Journal of Chemical & Engineering Data</i> , 2010, 55, 5314-5318.	1.0	59
21	Thermodynamics and Nucleation Kinetics of m-Aminobenzoic Acid Polymorphs. <i>Crystal Growth and Design</i> , 2010, 10, 195-204.	1.4	58
22	Reaction crystallization kinetics of benzoic acid. <i>AIChE Journal</i> , 2001, 47, 1544-1560.	1.8	56
23	Thermodynamics and Crystallization of the Theophylline-oxalic Acid Cocrystal. <i>Crystal Growth and Design</i> , 2013, 13, 1153-1161.	1.4	55
24	Influence of Solvent and Solid-State Structure on Nucleation of Parabens. <i>Crystal Growth and Design</i> , 2014, 14, 3890-3902.	1.4	54
25	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.	3.2	49
26	Crystal Nucleation of Tolbutamide in Solution: Relationship to Solvent, Solute Conformation, and Solution Structure. <i>Chemistry - A European Journal</i> , 2018, 24, 4916-4926.	1.7	49
27	Solution Mediated Polymorphic Transformation: Form II to Form III Piracetam in Ethanol. <i>Crystal Growth and Design</i> , 2012, 12, 6151-6157.	1.4	48
28	Determination of the activity of a molecular solute in saturated solution. <i>Journal of Chemical Thermodynamics</i> , 2008, 40, 1684-1692.	1.0	47
29	Solution-Mediated Polymorphic Transformation: Form II to Form III Piracetam in Organic Solvents. <i>Crystal Growth and Design</i> , 2014, 14, 3967-3974.	1.4	46
30	Growth and dissolution of succinic acid crystals in a batch stirred crystallizer. <i>AIChE Journal</i> , 1990, 36, 665-676.	1.8	45
31	Agglomeration of Paracetamol during Crystallization in Pure and Mixed Solvents. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 629-637.	1.8	44
32	Investigation of Batch Cooling Crystallization in a Liquid-Liquid Separating System by PAT. <i>Organic Process Research and Development</i> , 2012, 16, 1212-1224.	1.3	44
33	Influence of Agitation and Fluid Shear on Nucleation of m-Hydroxybenzoic Acid Polymorphs. <i>Crystal Growth and Design</i> , 2014, 14, 5521-5531.	1.4	44
34	Crystal nucleation of salicylic acid in organic solvents. <i>CrystEngComm</i> , 2015, 17, 3961-3973.	1.3	44
35	The theophylline-oxalic acid co-crystal system: solid phases, thermodynamics and crystallisation. <i>CrystEngComm</i> , 2012, 14, 4644.	1.3	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. <i>Crystal Growth and Design</i> , 2013, 13, 1861-1871.	1.4	41

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37	Thermodynamics and nucleation of the enantiotropic compound p-aminobenzoic acid. CrystEngComm, 2013, 15, 5020.	1.3	40
38	Solubility and Melting Properties of Salicylamide. Journal of Chemical & Engineering Data, 2006, 51, 1775-1777.	1.0	39
39	Solubility and Crystal Nucleation in Organic Solvents of Two Polymorphs of Curcumin. Journal of Pharmaceutical Sciences, 2015, 104, 2183-2189.	1.6	39
40	Phase Equilibria and Thermodynamics of p-Hydroxybenzoic Acid. Journal of Pharmaceutical Sciences, 2006, 95, 748-760.	1.6	38
41	Thermodynamics and crystallization of a theophylline-salicylic acid cocrystal. CrystEngComm, 2015, 17, 4125-4135.	1.3	38
42	Investigation of the Solid-State Polymorphic Transformations of Piracetam. Crystal Growth and Design, 2012, 12, 6223-6233.	1.4	37
43	Thermodynamics of fenofibrate and solubility in pure organic solvents. Fluid Phase Equilibria, 2014, 367, 143-150.	1.4	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.	1.3	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.	1.0	35
46	p-Hydroxybenzoic Acid: Quantifying Thermodynamic Stability and Influence of Solvent on the Nucleation of a Polymorphic System. Crystal Growth and Design, 2013, 13, 1140-1152.	1.4	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.	1.3	35
48	Influence of Agitation on Primary Nucleation in Stirred Tank Crystallizers. Crystal Growth and Design, 2015, 15, 4177-4184.	1.4	35
49	Process Parameters in the Purification of Curcumin by Cooling Crystallization. Organic Process Research and Development, 2016, 20, 1593-1602.	1.3	35
50	Influence of Additives on Nucleation of Vanillin: Experiments and Introductory Molecular Simulations. Crystal Growth and Design, 2004, 4, 1025-1037.	1.4	34
51	Estimation of crystallization kinetics from batch cooling experiments. AIChE Journal, 1994, 40, 799-812.	1.8	33
52	Thermodynamics of molecular solids in organic solvents. Journal of Chemical Thermodynamics, 2012, 48, 150-159.	1.0	33
53	Influence of Structurally Related Impurities on the Crystal Nucleation of Curcumin. Crystal Growth and Design, 2018, 18, 4715-4723.	1.4	33
54	Nucleation and growth of succinic acid in a batch cooling crystallizer. AIChE Journal, 1991, 37, 1293-1304.	1.8	32

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55	Primary nucleation of salicylamide: the influence of process conditions and solvent on the metastable zone width. <i>CrystEngComm</i> , 2013, 15, 7285.	1.3	31
56	Investigation of solidâ€“liquid phase diagrams of the sulfamethazineâ€“salicylic acid co-crystal. <i>CrystEngComm</i> , 2019, 21, 2863-2874.	1.3	31
57	Mesomixing in semi-batch reaction crystallization and influence of reactor size. <i>AIChE Journal</i> , 2004, 50, 3107-3119.	1.8	30
58	Agglomeration and adhesion free energy of paracetamol crystals in organic solvents. <i>AIChE Journal</i> , 2007, 53, 2590-2605.	1.8	30
59	Influence of Solution Thermal and Structural History on the Nucleation of <i>m</i> -Hydroxybenzoic Acid Polymorphs. <i>Crystal Growth and Design</i> , 2012, 12, 4340-4348.	1.4	30
60	Ternary phase diagrams of ethyl paraben and propyl paraben in ethanol aqueous solvents. <i>Fluid Phase Equilibria</i> , 2014, 376, 69-75.	1.4	29
61	Phase equilibrium and mechanisms of crystallization in liquidâ€“liquid phase separating system. <i>Fluid Phase Equilibria</i> , 2015, 385, 120-128.	1.4	29
62	Prediction of Solid State Properties of Cocrystals Using Artificial Neural Network Modeling. <i>Crystal Growth and Design</i> , 2018, 18, 133-144.	1.4	28
63	Measuring the Solubility of a Quickly Transforming Metastable Polymorph of Carbamazepine. <i>Organic Process Research and Development</i> , 2013, 17, 512-518.	1.3	27
64	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.	1.8	27
65	Probing Crystal Nucleation of Fenoxycarb from Solution through the Effect of Solvent. <i>Crystal Growth and Design</i> , 2019, 19, 2037-2049.	1.4	27
66	Thermodynamics of risperidone and solubility in pure organic solvents. <i>Fluid Phase Equilibria</i> , 2014, 375, 73-79.	1.4	26
67	Influence of History of Solution in Crystal Nucleation of Fenoxycarb: Kinetics and Mechanisms. <i>Crystal Growth and Design</i> , 2014, 14, 905-915.	1.4	26
68	(Solid+liquid) solubility of organic compounds in organic solvents â€“ Correlation and extrapolation. <i>Journal of Chemical Thermodynamics</i> , 2014, 76, 124-133.	1.0	26
69	Recovery of rare earth elements from nitrophosphoric acid solutions. <i>Hydrometallurgy</i> , 2017, 169, 253-262.	1.8	26
70	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.	1.1	26
71	Separation of valuable elements from NiMH battery leach liquor via antisolvent precipitation. <i>Separation and Purification Technology</i> , 2020, 234, 115812.	3.9	25
72	Aging of Reaction-Crystallized Benzoic Acid. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 6694-6702.	1.8	24

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73	Crystal growth rates of paracetamol in mixtures of water + acetone + toluene. <i>AIChE Journal</i> , 2005, 51, 2441-2456.	1.8	24
74	Investigation of the Particle Growth of Fenofibrate following Antisolvent Precipitation and Freeze-drying. <i>Crystal Growth and Design</i> , 2015, 15, 5213-5222.	1.4	24
75	Thermodynamic Stability Analysis of Tolbutamide Polymorphs and Solubility in Organic Solvents. <i>Journal of Pharmaceutical Sciences</i> , 2016, 105, 1901-1906.	1.6	23
76	Crystal Growth Kinetics of Piracetam Polymorphs in Ethanol and Isopropanol. <i>Crystal Growth and Design</i> , 2019, 19, 4273-4286.	1.4	23
77	Crystal Growth of Salicylic Acid in Organic Solvents. <i>Crystal Growth and Design</i> , 2017, 17, 2964-2974.	1.4	22
78	Crystal growth rate parameters from isothermal desupersaturation experiments. <i>Chemical Engineering Science</i> , 1991, 46, 1659-1667.	1.9	21
79	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.	1.4	20
80	Mechanisms of initiation of incrustation. <i>AIChE Journal</i> , 1997, 43, 1300-1308.	1.8	19
81	Sandwich crystals of butyl paraben. <i>CrystEngComm</i> , 2014, 16, 8863-8873.	1.3	19
82	Size and Shape Control of Micron-Sized Salicylic Acid Crystals during Antisolvent Crystallization. <i>Organic Process Research and Development</i> , 2017, 21, 1732-1740.	1.3	19
83	Modeling of growth rate dispersion in batch cooling crystallization. <i>AIChE Journal</i> , 1992, 38, 1853-1863.	1.8	18
84	Solution-Mediated Polymorphic Transformation of FV Sulphathiazole. <i>Crystal Growth and Design</i> , 2014, 14, 3466-3471.	1.4	18
85	Solvent and additive interactions as determinants in the nucleation pathway: general discussion. <i>Faraday Discussions</i> , 2015, 179, 383-420.	1.6	18
86	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.	1.4	18
87	Estimation of Melting Temperature of Molecular Cocrystals Using Artificial Neural Network Model. <i>Crystal Growth and Design</i> , 2017, 17, 175-182.	1.4	18
88	Face indexing and shape analysis of salicylamide crystals grown in different solvents. <i>CrystEngComm</i> , 2019, 21, 2648-2659.	1.3	18
89	Solution mediated phase transformations between co-crystals. <i>CrystEngComm</i> , 2013, 15, 2044.	1.3	17
90	Thermodynamics of fenoxycarb in solution. <i>Journal of Chemical Thermodynamics</i> , 2013, 66, 50-58.	1.0	17

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91	Crystal Growth of Salicylamide in Organic Solvents. <i>Crystal Growth and Design</i> , 2018, 18, 7305-7315.	1.4	17
92	Solubility and thermodynamic analysis of ketoprofen in organic solvents. <i>International Journal of Pharmaceutics</i> , 2020, 588, 119686.	2.6	17
93	Calorimetric Determination of Cocrystal Thermodynamic Stability: Sulfamethazineâ€“Salicylic Acid Case Study. <i>Crystal Growth and Design</i> , 2020, 20, 4243-4251.	1.4	17
94	THE FORMATION OF SUBMICRON ORGANIC PARTICLES BY PRECIPITATION IN AN EMULSION. <i>Journal of Dispersion Science and Technology</i> , 1994, 15, 89-117.	1.3	16
95	Investigation into solid and solution properties of quinizarin. <i>CrystEngComm</i> , 2015, 17, 3985-3997.	1.3	16
96	Hydrodynamics of suspensions agitated by pitched-blade turbine. <i>AIChE Journal</i> , 1998, 44, 513-527.	1.8	15
97	Nucleation in the <i>p</i> -Toluenesulfonamide/Triphenylphosphine Oxide Co-crystal System. <i>Crystal Growth and Design</i> , 2013, 13, 3754-3762.	1.4	15
98	Carrier particle design for stabilization and isolation of drug nanoparticles. <i>International Journal of Pharmaceutics</i> , 2017, 518, 111-118.	2.6	15
99	Solute clustering in undersaturated solutions â€“ systematic dependence on time, temperature and concentration. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 15550-15559.	1.3	15
100	Promotion of Mefenamic Acid Nucleation by a Surfactant Additive, Docusate Sodium. <i>Crystal Growth and Design</i> , 2019, 19, 591-603.	1.4	15
101	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.	1.4	14
102	Towards predictive simulation of single feed semibatch reaction crystallization. <i>Chemical Engineering Science</i> , 2009, 64, 1559-1576.	1.9	13
103	Analysis of FII crystals of sulfathiazole: epitaxial growth of FII on FIV. <i>CrystEngComm</i> , 2011, 13, 831-834.	1.3	13
104	Controlling the Product Crystal Size Distribution by Strategic Application of Ultrasonication. <i>Crystal Growth and Design</i> , 2018, 18, 1697-1709.	1.4	13
105	Nucleation of the Theophylline:Salicylic Acid 1:1 Cocrystal. <i>Crystal Growth and Design</i> , 2021, 21, 2711-2719.	1.4	13
106	Crystal Growth Kinetics of Pharmaceutical Compounds. <i>Crystal Growth and Design</i> , 2020, 20, 7626-7639.	1.4	13
107	Importance of macromixing in batch cooling crystallization. <i>AIChE Journal</i> , 1996, 42, 691-699.	1.8	12
108	Calorimetric Properties and Solubility in Five Pure Organic Solvents of <i>N</i> -Methyl-Glucamine (Meglumine). <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 1199-1204.	1.0	11

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109	Crystal nucleation of salicylamide and a comparison with salicylic acid. <i>CrystEngComm</i> , 2020, 22, 3329-3339.	1.3	11
110	Solubility of Lobenzarit Disodium Salt in Ethanol-Water Mixtures. <i>Journal of Chemical & Engineering Data</i> , 1998, 43, 681-682.	1.0	10
111	Thermodynamics of the Enantiotropic Pharmaceutical Compound Benzocaine and Solubility in Pure Organic Solvents. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 3370-3377.	1.6	10
112	Growth kinetics of curcumin form I. <i>CrystEngComm</i> , 2020, 22, 3505-3518.	1.3	10
113	Pure Curcumin Spherulites from Impure Solutions via Nonclassical Crystallization. <i>ACS Omega</i> , 2021, 6, 23884-23900.	1.6	10
114	Semibatch reaction crystallization of salicylic acid. <i>Chemical Engineering Research and Design</i> , 2014, 92, 522-533.	2.7	9
115	On the estimation of crystallization driving forces. <i>CrystEngComm</i> , 2019, 21, 5164-5173.	1.3	7
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.	1.6	7
117	Solubility of Salicylic Acid, Salicylamide, and Fenofibrate in Organic Solvents at Low Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2020, 65, 4855-4861.	1.0	7
118	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.	1.4	7
119	Product concentration profile in strained reacting fluid films. <i>Chemical Engineering Science</i> , 1999, 54, 483-494.	1.9	6
120	Ethyl-N-[2-(4-phenoxyphenoxy)ethyl]carbamate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2012, 68, o2834-o2835.	0.2	6
121	Analysis of the structure and morphology of fenoxycarb crystals. <i>Journal of Molecular Graphics and Modelling</i> , 2014, 53, 92-99.	1.3	6
122	Drug Loading and Dissolution Properties of Dalcetrapib-Montmorillonite Nanocomposite Microparticles. <i>Organic Process Research and Development</i> , 2020, 24, 977-987.	1.3	6
123	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> , 2021, 25, 2403-2414.	1.3	6
124	Molecular Clustering of Fenoxycarb and Salicylic Acid in Organic Solvents and Relation to Crystal Nucleation. <i>Crystal Growth and Design</i> , 2022, 22, 2824-2836.	1.4	6
125	Solubility of Two Polymorphs of Tolbutamide in n-Propanol: Comparison of Methods. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 3021-3026.	1.6	5
126	Single Crystal Growth Kinetics of Two Polymorphs of Piracetam. <i>Crystal Growth and Design</i> , 2021, 21, 5631-5640.	1.4	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.	1.3	4
129	Influence of solvent on crystal nucleation of benzocaine. CrystEngComm, 2020, 22, 8330-8342.	1.3	4
130	Crystallization of Stable and Metastable Phases of Phenylsuccinic Acid. Crystal Growth and Design, 2006, 6, 1143-1153.	1.4	3
131	Rationalising crystal nucleation of organic molecules in solution using artificial neural networks. CrystEngComm, 2019, 21, 449-461.	1.3	3
132	Nucleation in the Theophylline/Glutaric Acid Cocrystal System. Crystal Growth and Design, 2021, 21, 3967-3980.	1.4	3
133	Crystallization Process Analysis by Population Balance Modeling. , 2019, , 172-196.		2
134	Effects of structurally related impurities on the crystal growth of curcumin spherulites. CrystEngComm, 2022, 24, 5156-5169.	1.3	2
135	Structural and energetic aspects of the differences between real and predicted polymorphs. Crystal Research and Technology, 2010, 45, 867-878.	0.6	1
136	Isolation of Pharmaceutical Intermediates through Solid Supported Evaporation. Semicontinuous Operation Mode. Industrial & Engineering Chemistry Research, 2012, 51, 14814-14823.	1.8	0
137	Turbulence Characteristics around the Agitator in a Dilute Suspension.. Journal of Chemical Engineering of Japan, 2001, 34, 654-661.	0.3	0