Allan Myerson

List of Publications by Year
in descending order

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269 papers	13,619 citations	23567 58 h-index	28297 105 g-index
275 all docs	275 docs citations	275 times ranked	9887 citing authors

#	Article	IF	Citations
1	Nucleation of Crystals from Solution: Classical and Two-Step Models. Accounts of Chemical Research, 2009, 42, 621-629.	15.6	914
2	Polymorphs, Salts, and Cocrystals: Whatâ€™s in a Name?. Crystal Growth and Design, 2012, 12, 2147-2152.	3.0	767
3	On-demand continuous-flow production of pharmaceuticals in a compact, reconfigurable system. Science, 2016, 352, 61-67.	12.6	751
4	Endâ€toâ€End Continuous Manufacturing of Pharmaceuticals: Integrated Synthesis, Purification, and Final Dosage Formation. Angewandte Chemie - International Edition, 2013, 52, 12359-12363.	13.8	505
5	Pharmaceutical Crystallization. Crystal Growth and Design, 2011, 11, 887-895.	3.0	450
6	Crystal Polymorphism in Chemical Process Development. Annual Review of Chemical and Biomolecular Engineering, 2011, 2, 259-280.	6.8	320
7	Continuous Plug Flow Crystallization of Pharmaceutical Compounds. Crystal Growth and Design, 2010, 10, 2219-2228.	3.0	265
8	Polarization Switching of Crystal Structure in the Nonphotochemical Light-Induced Nucleation of Supersaturated Aqueous Glycine Solutions. Physical Review Letters, 2002, 89, 175501.	7.8	260
9	Nonphotochemical, Polarization-Dependent, Laser-Induced Nucleation in Supersaturated Aqueous Urea Solutions. Physical Review Letters, 1996, 77, 3475-3476.	7.8	224
10	Nonphotochemical, Laser-Induced Nucleation of Supersaturated Aqueous Glycine Produces Unexpected Î³-Polymorph. Crystal Growth and Design, 2001, 1, 5-8.	3.0	202
11	Surface Design for Controlled Crystallization: The Role of Surface Chemistry and Nanoscale Pores in Heterogeneous Nucleation. Langmuir, 2011, 27, 5324-5334.	3.5	186
12	Nucleation from Solution. Science, 2013, 341, 855-856.	12.6	166
13	The role of nanopore shape in surface-induced crystallization. Nature Materials, 2011, 10, 867-871.	27.5	159
14	Crystallization on Confined Engineered Surfaces:Â A Method to Control Crystal Size and Generate Different Polymorphs. Journal of the American Chemical Society, 2005, 127, 14982-14983.	13.7	152
15	Crystallization Monitoring by Raman Spectroscopy:Â Simultaneous Measurement of Desupersaturation Profile and Polymorphic Form in Flufenamic Acid Systems. Industrial & Engineering Chemistry Research, 2005, 44, 1233-1240.	3.7	140
16	SAXS Study of the Nucleation of Glycine Crystals from a Supersaturated Solution. Crystal Growth and Design, 2005, 5, 523-527.	3.0	133
17	Crystallization of Cyclosporine in a Multistage Continuous MSMPR Crystallizer. Crystal Growth and Design, 2011, 11, 4392-4400.	3.0	131
18	Crystals, crystal growth, and nucleation. , 2002, , 33-65.		130

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19	Gel-Induced Selective Crystallization of Polymorphs. Journal of the American Chemical Society, 2012, 134, 673-684.	13.7	129
20	Continuous Crystallization of Aliskiren Hemifumarate. Crystal Growth and Design, 2012, 12, 3036-3044.	3.0	122
21	Achieving Continuous Manufacturing for Final Dosage Formation: Challenges and How to Meet Them May 20â€“21 2014 Continuous Manufacturing Symposium. Journal of Pharmaceutical Sciences, 2015, 104, 792-802.	3.3	117
22	Supersaturation and Polarization Dependence of Polymorph Control in the Nonphotochemical Laser-Induced Nucleation (NPLIN) of Aqueous Glycine Solutions. Crystal Growth and Design, 2006, 6, 684-689.	3.0	114
23	Development of Continuous Crystallization Processes Using a Single-Stage Mixed-Suspension, Mixed-Product Removal Crystallizer with Recycle. Crystal Growth and Design, 2012, 12, 5701-5707.	3.0	112
24	Development of Continuous Anti-Solvent/Cooling Crystallization Process using Cascaded Mixed Suspension, Mixed Product Removal Crystallizers. Organic Process Research and Development, 2012, 16, 915-924.	2.7	111
25	Determination of Solubility of Polymorphs Using Differential Scanning Calorimetry. Crystal Growth and Design, 2003, 3, 991-995.	3.0	108
26	Strong dc Electric Field Applied to Supersaturated Aqueous Glycine Solution Induces Nucleation of theÎ³Polymorph. Physical Review Letters, 2005, 94, 145503.	7.8	103
27	Comparison of fouling propensity between reverse osmosis, forward osmosis, and membrane distillation. Journal of Membrane Science, 2018, 556, 352-364.	8.2	101
28	Solubility Measurement Using Differential Scanning Calorimetry. Industrial & Engineering Chemistry Research, 2002, 41, 4854-4862.	3.7	96
29	Influence of Impurities on the Solution-Mediated Phase Transformation of an Active Pharmaceutical Ingredient. Crystal Growth and Design, 2005, 5, 1429-1436.	3.0	91
30	Nucleation Induction Time in Levitated Droplets. Journal of Physical Chemistry B, 2004, 108, 10672-10677.	2.6	90
31	THFâ€“water hydrate crystallization: an experimental investigation. Journal of Crystal Growth, 1999, 204, 525-538.	1.5	88
32	Use of Continuous MSMPR Crystallization with Integrated Nanofiltration Membrane Recycle for Enhanced Yield and Purity in API Crystallization. Crystal Growth and Design, 2014, 14, 617-627.	3.0	88
33	Side-chain order in poly(3-alkylthiophenes). Macromolecules, 1993, 26, 1318-1323.	4.8	87
34	Controlled Nucleation from Solution Using Polymer Microgels. Journal of the American Chemical Society, 2011, 133, 3756-3759.	13.7	87
35	Control of Polymorphism in Continuous Crystallization via Mixed Suspension Mixed Product Removal Systems Cascade Design. Crystal Growth and Design, 2015, 15, 3374-3382.	3.0	87
36	Control Systems Engineering in Continuous Pharmaceutical Manufacturing May 20â€“21, 2014 Continuous Manufacturing Symposium. Journal of Pharmaceutical Sciences, 2015, 104, 832-839.	3.3	86

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37	Advanced Continuous Flow Platform for Onâ€Demand Pharmaceutical Manufacturing. Chemistry - A European Journal, 2018, 24, 2776-2784.	3.3	81
38	A comparison of binding energy and metastable zone width for adipic acid with various additives. Journal of Crystal Growth, 1995, 156, 459-466.	1.5	78
39	Production and Characterization of Carbamazepine Nanocrystals by Electrospraying for Continuous Pharmaceutical Manufacturing. Journal of Pharmaceutical Sciences, 2012, 101, 1178-1188.	3.3	77
40	Nucleation and Growth of Glycine Crystals on Self-Assembled Monolayers on Gold. Langmuir, 2000, 16, 3791-3796.	3.5	73
41	The diffusivity of potassium chloride and sodium chloride in concentrated, saturated, and supersaturated aqueous solutions. AICHE Journal, 1985, 31, 890-894.	3.6	72
42	Diffusion and cluster formation in supersaturated solutions. Journal of Crystal Growth, 1990, 99, 1048-1052.	1.5	72
43	The adsorption ofThiobacillus ferrooxidans on coal surfaces. Biotechnology and Bioengineering, 1986, 28, 467-479.	3.3	71
44	Thermally induced phase separation in ternary crystallizable polymer solutions. Journal of Membrane Science, 1994, 89, 37-50.	8.2	70
45	Cluster size estimation in binary supersaturated solutions. Journal of Crystal Growth, 1992, 116, 41-47.	1.5	69
46	Solid forms of pharmaceuticals: Polymorphs, salts and cocrystals. Korean Journal of Chemical Engineering, 2011, 28, 315-322.	2.7	69
47	Crystallization of Amino Acids on Self-Assembled Monolayers of Rigid Thiols on Gold. Langmuir, 2002, 18, 5886-5898.	3.5	68
48	Continuous Crystallization and Polymorph Dynamics in the <scp>l</scp>-Glutamic Acid System. Organic Process Research and Development, 2014, 18, 1382-1390.	2.7	68
49	Nonequilibrium liquid-liquid phase separation in crystallizable polymer solutions. Macromolecules, 1992, 25, 4002-4010.	4.8	67
50	Biocompatible Alginate Microgel Particles as Heteronucleants and Encapsulating Vehicles for Hydrophilic and Hydrophobic Drugs. Crystal Growth and Design, 2014, 14, 2073-2082.	3.0	67
51	Cluster formation and diffusion in supersaturated binary and ternary amino acid solutions. Journal of Crystal Growth, 1991, 110, 26-33.	1.5	66
52	Concomitant Crystallization of Glycine on Patterned Substrates: The Effect of pH on the Polymorphic Outcome. Crystal Growth and Design, 2008, 8, 108-113.	3.0	65
53	A statistical understanding of nucleation. Journal of Crystal Growth, 1999, 196, 234-242.	1.5	64
54	Application of Continuous Crystallization in an Integrated Continuous Pharmaceutical Pilot Plant. Crystal Growth and Design, 2014, 14, 2148-2157.	3.0	64

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55	Multistage Continuous Mixed-Suspension, Mixed-Product Removal (MSMPR) Crystallization with Solids Recycle. Organic Process Research and Development, 2016, 20, 510-516.	2.7	64
56	Diffusivity of urea in concentrated, saturated and supersaturated solutions. AICHE Journal, 1982, 28, 772-779.	3.6	63
57	Toward the Rational Design of Crystalline Surfaces for Heteroepitaxy: Role of Molecular Functionality. Crystal Growth and Design, 2012, 12, 1159-1166.	3.0	61
58	Estimation of the Solubility of Metastable Polymorphs: A Critical Review. Crystal Growth and Design, 2018, 18, 7228-7237.	3.0	60
59	Factors Affecting the Polymorphic Outcome of Glycine Crystals Constrained on Patterned Substrates. Chemical Engineering and Technology, 2006, 29, 281-285.	1.5	59
60	Cluster formation in highly supersaturated solution droplets. Journal of Crystal Growth, 1994, 139, 104-112.	1.5	58
61	Using Magnetic Levitation to Separate Mixtures of Crystal Polymorphs. Angewandte Chemie - International Edition, 2013, 52, 10208-10211.	13.8	58
62	Intensity, Wavelength, and Polarization Dependence of Nonphotochemical Laser-Induced Nucleation in Supersaturated Aqueous Urea Solutions. Crystal Growth and Design, 2005, 5, 1565-1567.	3.0	57
63	Diffusivity of glycine in concentrated saturated and supersaturated aqueous solutions. AICHE Journal, 1986, 32, 1567-1569.	3.6	56
64	Nucleating Agents in Polypropylene. Magyar AprÃ³vad KÃ¶zlemÃ©nyek, 2000, 59, 497-508.	1.4	56
65	Nonphotochemical Laser Induced Nucleation of Hen Egg White Lysozyme Crystals. Crystal Growth and Design, 2008, 8, 4255-4261.	3.0	56
66	Formation of Nanosized Organic Molecular Crystals on Engineered Surfaces. Journal of the American Chemical Society, 2009, 131, 18212-18213.	13.7	56
67	Polymorphic control by heterogeneous nucleation - A new method for selecting crystalline substrates. CrystEngComm, 2011, 13, 6625.	2.6	56
68	Growth kinetics: a thermodynamic approach. Chemical Engineering Science, 2002, 57, 4277-4285.	3.8	55
69	Relationship between Self-Association of Glycine Molecules in Supersaturated Solutions and Solid State Outcome. Physical Review Letters, 2007, 99, 115702.	7.8	55
70	Free Surface Electrospinning of Fibers Containing Microparticles. Langmuir, 2012, 28, 9714-9721.	3.5	55
71	Confined crystallization of fenofibrate in nanoporous silica. CrystEngComm, 2015, 17, 7922-7929.	2.6	54
72	The adsorption ofThiobacillus ferrooxidans on solid particles. Biotechnology and Bioengineering, 1983, 25, 1669-1676.	3.3	53

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73	Effect of Additives on the Transformation Behavior ofl-Phenylalanine in Aqueous Solution. Industrial & Engineering Chemistry Research, 2001, 40, 6111-6117.	3.7	53
74	Polarization Switching of Crystal Structure in the Nonphotochemical Laser-Induced Nucleation of Supersaturated Aqueous <scp>l</scp>-Histidine. Crystal Growth and Design, 2008, 8, 1720-1722.	3.0	51
75	Nucleation under Soft Confinement: Role of Polymerâ€“Solute Interactions. Crystal Growth and Design, 2012, 12, 508-517.	3.0	51
76	Continuous Production of Five Active Pharmaceutical Ingredients in Flexible Plug-and-Play Modules: A Demonstration Campaign. Organic Process Research and Development, 2020, 24, 2183-2196.	2.7	50
77	Polymorph Screening: Comparing a Semi-Automated Approach with a High Throughput Method. Crystal Growth and Design, 2009, 9, 4181-4188.	3.0	49
78	Crystal growth on self-assembled monolayers. CrystEngComm, 2011, 13, 24-32.	2.6	49
79	Polymorph Control of Micro/Nano-Sized Mefenamic Acid Crystals on Patterned Self-Assembled Monolayer Islands. Crystal Growth and Design, 2012, 12, 5521-5528.	3.0	49
80	Regulating Nucleation Kinetics through Molecular Interactions at the Polymerâ€“Solute Interface. Crystal Growth and Design, 2014, 14, 678-686.	3.0	49
81	Growth models of the continuous bacterial leaching of iron pyrite byThiobacillus ferrooxidans. Biotechnology and Bioengineering, 1982, 24, 889-902.	3.3	48
82	Continuous Spherical Crystallization of Albuterol Sulfate with Solvent Recycle System. Crystal Growth and Design, 2015, 15, 5149-5156.	3.0	48
83	Concomitant Polymorphism in Confined Environment. Pharmaceutical Research, 2008, 25, 960-968.	3.5	47
84	Self-assembled monolayers of rigid thiols. Reviews in Molecular Biotechnology, 2000, 74, 175-188.	2.8	46
85	The Solubility of Orthorhombic Lysozyme Crystals Obtained at High pH. Crystal Growth and Design, 2009, 9, 3313-3317.	3.0	46
86	Continuous Crystallization of Cyclosporine: Effect of Operating Conditions on Yield and Purity. Crystal Growth and Design, 2017, 17, 1000-1007.	3.0	46
87	Coreâ€“Shell Composite Hydrogels for Controlled Nanocrystal Formation and Release of Hydrophobic Active Pharmaceutical Ingredients. Advanced Healthcare Materials, 2016, 5, 1960-1968.	7.6	45
88	Electrospun Formulations Containing Crystalline Active Pharmaceutical Ingredients. Pharmaceutical Research, 2013, 30, 238-246.	3.5	43
89	Nucleation and Growth Kinetics for Combined Cooling and Antisolvent Crystallization in a Mixed-Suspension, Mixed-Product Removal System: Estimating Solvent Dependency. Crystal Growth and Design, 2018, 18, 1560-1570.	3.0	43
90	Metastable Solution Thermodynamic Properties and Crystal Growth Kinetics. Industrial & Engineering Chemistry Research, 1996, 35, 1078-1084.	3.7	41

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91	Solid-State NMR Characterization of High-Loading Solid Solutions of API and Excipients Formed by Electrospinning. Journal of Pharmaceutical Sciences, 2012, 101, 1538-1545.	3.3	41
92	Composite Hydrogels Laden with Crystalline Active Pharmaceutical Ingredients of Controlled Size and Loading. Chemistry of Materials, 2014, 26, 6213-6220.	6.7	41
93	Water activity in supersaturated aqueous solutions of organic solutes. Journal of Crystal Growth, 1995, 149, 229-235.	1.5	39
94	Concomitant Crystallization of ROY on Patterned Substrates: Using a High Throughput Method to Improve the Chances of Crystallization of Different Polymorphs. Crystal Growth and Design, 2009, 9, 1182-1185.	3.0	39
95	Contact Secondary Nucleation as a Means of Creating Seeds for Continuous Tubular Crystallizers. Crystal Growth and Design, 2013, 13, 2514-2521.	3.0	39
96	Development of a Small-Scale Automated Solubility Measurement Apparatus. Industrial & Engineering Chemistry Research, 2005, 44, 5427-5433.	3.7	37
97	Cocrystal formation by ionic liquid-assisted grinding: case study with cocrystals of caffeine. CrystEngComm, 2018, 20, 3817-3821.	2.6	37
98	Continuous bacterial coal desulfurization employingThiobacillus ferrooxidans. Biotechnology and Bioengineering, 1984, 26, 92-99.	3.3	35
99	Molecular Dynamics of Nucleation and Crystallization of Polymers. Crystal Growth and Design, 2001, 1, 131-142.	3.0	35
100	The Use of Cooling Crystallization in an Ionic Liquid System for the Purification of Pharmaceuticals. Crystal Growth and Design, 2015, 15, 4946-4951.	3.0	35
101	Effect of impurities on cluster growth and nucleation. Journal of Crystal Growth, 1993, 126, 216-222.	1.5	34
102	Polymorphism control of nanosized glycine crystals on engineered surfaces. CrystEngComm, 2011, 13, 1127-1131.	2.6	34
103	Phase Transformation of Sulfamerazine Using a Taylor Vortex. Crystal Growth and Design, 2011, 11, 5019-5029.	3.0	34
104	Experimental Evaluation of Contact Secondary Nucleation Mechanisms. Crystal Growth and Design, 2014, 14, 5152-5157.	3.0	34
105	Control of Heterogeneous Nucleation via Rationally Designed Biocompatible Polymer Surfaces with Nanoscale Features. Crystal Growth and Design, 2015, 15, 2176-2186.	3.0	34
106	Compact and Integrated Approach for Advanced End-to-End Production, Purification, and Aqueous Formulation of Lidocaine Hydrochloride. Organic Process Research and Development, 2016, 20, 1347-1353.	2.7	34
107	The theoretical shape of sucrose crystals from energy calculations. Journal of Crystal Growth, 1983, 61, 546-555.	1.5	33
108	Kinetics of dissolution of alumina in acidic solution. AICHE Journal, 1987, 33, 267-273.	3.6	33

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109	Geometric Design of Heterogeneous Nucleation Sites on Biocompatible Surfaces. Crystal Growth and Design, 2013, 13, 3835-3841.	3.0	33
110	Continuous Heterogeneous Crystallization on Excipient Surfaces. Crystal Growth and Design, 2017, 17, 3321-3330.	3.0	33
111	Polymorph control in batch seeded crystallizers. A case study with paracetamol. CrystEngComm, 2019, 21, 2105-2118.	2.6	33
112	Separation of impurities from solution by selective co-crystal formation. CrystEngComm, 2012, 14, 2386-2388.	2.6	32
113	The effect of hydrogen bonding on vapor diffusion in water-soluble polymers. Journal of Applied Polymer Science, 1997, 66, 279-291.	2.6	30
114	Templated Nucleation of Acetaminophen on Spherical Excipient Agglomerates. Langmuir, 2013, 29, 3292-3300.	3.5	30
115	Exploring the role of ionic liquids to tune the polymorphic outcome of organic compounds. Chemical Science, 2018, 9, 1510-1520.	7.4	30
116	Gas transport properties of polyaniline membranes. Journal of Applied Polymer Science, 1996, 62, 1427-1436.	2.6	28
117	Hydrophobic vs. hydrophilic ionic liquid separations strategies in support of continuous pharmaceutical manufacturing. RSC Advances, 2013, 3, 10019.	3.6	27
118	Ionic Fluids Containing Both Strongly and Weakly Interacting Ions of the Same Charge Have Unique Ionic and Chemical Environments as a Function of Ion Concentration. ChemPhysChem, 2015, 16, 993-1002.	2.1	27
119	Inhibition of Nucleation Using a Dilute, Weakly Hydrogen-Bonding Molecular Additive. Crystal Growth and Design, 2018, 18, 3584-3595.	3.0	27
120	Impact of Ultrasonic Energy on the Crystallization of Dextrose Monohydrate. Crystal Growth and Design, 2003, 3, 741-746.	3.0	26
121	Gypsum Crystallization during Phosphoric Acid Production: Modeling and Experiments Using the Mixed-Solvent-Electrolyte Thermodynamic Model. Industrial & Engineering Chemistry Research, 2015, 54, 7914-7924.	3.7	26
122	Understanding and Analyzing Freezing-Point Transitions of Confined Fluids within Nanopores. Langmuir, 2015, 31, 10113-10118.	3.5	26
123	Mathematical Modeling of Layer Crystallization on a Cold Column with Recirculation. Industrial & Engineering Chemistry Research, 2016, 55, 5019-5029.	3.7	26
124	The A Priori Design and Selection of Ionic Liquids as Solvents for Active Pharmaceutical Ingredients. Chemistry - A European Journal, 2017, 23, 5498-5508.	3.3	26
125	Diffusion and cluster formation in supersaturated solutions of ammonium sulfate at 298K. Journal of Crystal Growth, 2000, 217, 393-403.	1.5	25
126	Particle Engineering: Fundamentals of Particle Formation and Crystal Growth. MRS Bulletin, 2006, 31, 881-886.	3.5	25

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127	Using Magnetic Levitation to Separate Mixtures of Crystal Polymorphs. Angewandte Chemie, 2013, 125, 10398-10401.	2.0	25
128	Self-Association during Heterogeneous Nucleation onto Well-Defined Templates. Langmuir, 2014, 30, 12368-12375.	3.5	25
129	Novel Technique for Filtration Avoidance in Continuous Crystallization. Crystal Growth and Design, 2016, 16, 285-296.	3.0	25
130	Impurity Trapping during Dendritic Crystal Growth. 1. Computer Simulation. Industrial & Engineering Chemistry Fundamentals, 1977, 16, 414-420.	0.7	24
131	Crystallization of Solid-State Materials in Nonaqueous Gels. 1. Silver Bromide. Journal of the American Chemical Society, 1998, 120, 585-586.	13.7	24
132	Mathematical modeling and design of layer crystallization in a concentric annulus with and without recirculation. AICHE Journal, 2013, 59, 1308-1321.	3.6	24
133	Continuous Crystallization with Impurity Complexation and Nanofiltration Recycle. Organic Process Research and Development, 2017, 21, 253-261.	2.7	24
134	A compact, portable, re-configurable, and automated system for on-demand pharmaceutical tablet manufacturing. International Journal of Pharmaceutics, 2018, 539, 157-164.	5.2	24
135	Impurity Trapping during Dendritic Crystal Growth. 2. Experimental Results and Correlation. Industrial & Engineering Chemistry Fundamentals, 1977, 16, 420-425.	0.7	23
136	Oxygen mass transfer requirements during the growth ofThiobacillus ferrooxidans on iron pyrite. Biotechnology and Bioengineering, 1981, 23, 1413-1416.	3.3	23
137	Solvent selection and batch crystallization. Industrial & Engineering Chemistry Process Design and Development, 1986, 25, 925-929.	0.6	23
138	Compact Crystallization, Filtration, and Drying for the Production of Active Pharmaceutical Ingredients. Organic Process Research and Development, 2013, 17, 684-692.	2.7	23
139	Mechanism of Contact-Induced Heterogeneous Nucleation. Crystal Growth and Design, 2016, 16, 6131-6138.	3.0	23
140	Integrated hot-melt extrusion â€“ injection molding continuous tablet manufacturing platform: Effects of critical process parameters and formulation attributes on product robustness and dimensional stability. International Journal of Pharmaceutics, 2017, 531, 332-342.	5.2	23
141	Experimental and Mechanistic Study of the Heterogeneous Nucleation and Epitaxy of Acetaminophen with Biocompatible Crystalline Substrates. Crystal Growth and Design, 2017, 17, 3783-3795.	3.0	22
142	Low Energy Nanoemulsions as Templates for the Formulation of Hydrophobic Drugs. Advanced Therapeutics, 2018, 1, 1700020.	3.2	22
143	Methods for estimating supersaturation in antisolvent crystallization systems. CrystEngComm, 2019, 21, 5811-5817.	2.6	22
144	Diffusion coefficients near the spinodal curve. AICHE Journal, 1984, 30, 1004-1006.	3.6	21

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145	Thermodynamic Properties of Supersaturated Protein Solutions. Crystal Growth and Design, 2004, 4, 199-208.	3.0	21
146	Impurity incorporation in solution crystallization: diagnosis, prevention, and control. CrystEngComm, 2022, 24, 1989-2001.	2.6	21
147	Crystallization of Calcium Sulphate During Phosphoric Acid Production: Modeling Particle Shape and Size Distribution. Procedia Engineering, 2016, 138, 390-402.	1.2	20
148	Development of Maltodextrin-Based Immediate-Release Tablets Using an Integrated Twin-Screw Hot-Melt Extrusion and Injection-Molding Continuous Manufacturing Process. Journal of Pharmaceutical Sciences, 2017, 106, 3328-3336.	3.3	20
149	Mixed-Suspension, Mixed-Product Removal Studies of Ciprofloxacin from Pure and Crude Active Pharmaceutical Ingredients: The Role of Impurities on Solubility and Kinetics. Crystal Growth and Design, 2019, 19, 4008-4018.	3.0	20
150	Diffusivity of lysozyme in undersaturated, saturated and supersaturated solutions. Journal of Crystal Growth, 1994, 143, 79-85.	1.5	19
151	Formation of organic molecular nanocrystals under rigid confinement with analysis by solid state NMR. CrystEngComm, 2014, 16, 9345-9352.	2.6	19
152	A Process for the Formation of Nanocrystals of Active Pharmaceutical Ingredients with Poor Aqueous Solubility in a Nanoporous Substrate. Organic Process Research and Development, 2015, 19, 1109-1118.	2.7	19
153	Purification of Structurally Similar Compounds by the Formation of Impurity Co-Former Complexes in Solution. Crystal Growth and Design, 2013, 13, 1577-1582.	3.0	18
154	Nanocrystal formation and polymorphism of glycine. CrystEngComm, 2015, 17, 723-728.	2.6	18
155	Custom-Built Miniature Continuous Crystallization System with Pressure-Driven Suspension Transfer. Organic Process Research and Development, 2016, 20, 1276-1282.	2.7	18
156	Angle-Directed Nucleation of Paracetamol on Biocompatible Nanoimprinted Polymers. Crystal Growth and Design, 2017, 17, 2955-2963.	3.0	18
157	Separate mechanisms of ion oligomerization tune the physicochemical properties of n-butylammonium acetate: cation-base clusters vs. anion-acid dimers. Physical Chemistry Chemical Physics, 2017, 19, 25544-25554.	2.8	18
158	Development of Continuous Spherical Crystallization to Prepare Fenofibrate Agglomerates with Impurity Complexation Using Mixed-Suspension, Mixed-Product Removal Crystallizer. Crystal Growth and Design, 2018, 18, 6448-6454.	3.0	18
159	Solubility Studies of Cyclosporine Using Ionic Liquids. ACS Omega, 2019, 4, 7938-7943.	3.5	18
160	On-Demand Continuous Manufacturing of Ciprofloxacin in Portable Plug-and-Play Factories: Implementation and In Situ Control of Downstream Production. Organic Process Research and Development, 2021, 25, 1534-1546.	2.7	18
161	Thermodynamic studies of levitated microdroplets of highly supersaturated electrolyte solutions. Journal of Crystal Growth, 1996, 166, 981-988.	1.5	17
162	Impact of Ultrasonic Energy on the Flow Crystallization of Dextrose Monohydrate. Crystal Growth and Design, 2004, 4, 687-690.	3.0	17

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163	Formation of organic molecular nanocrystals under soft confinement. CrystEngComm, 2015, 17, 6044-6052.	2.6	17
164	Effect of Air Injection on Nucleation Rates: An Approach from Induction Time Statistics. Crystal Growth and Design, 2017, 17, 3287-3294.	3.0	17
165	Polymorph Control in MSMPR Crystallizers. A Case Study with Paracetamol. Organic Process Research and Development, 2019, 23, 794-806.	2.7	17
166	The Gel-Crystallization of 1-Phenylalanine and Aspartame from Aqueous Solutions. Chemical Engineering Communications, 2002, 189, 1079-1090.	2.6	16
167	Nucleation Inhibition of Benzoic Acid through Solution Complexation. Crystal Growth and Design, 2017, 17, 2646-2653.	3.0	16
168	Microparticle driven by parametric and random forces: Theory and experiment. Physical Review E, 1995, 52, 1325-1332.	2.1	15
169	CFD simulations for analysis and scale-up of anti-solvent crystallization. AICHE Journal, 2006, 52, 3621-3625.	3.6	15
170	Chiral Self Assembled Monolayers as Resolving Auxiliaries in the Crystallization of Valine. Journal of Pharmaceutical Sciences, 2010, 99, 3931-3940.	3.3	15
171	Purification of amoxicillin trihydrate by impurity-coformer complexation in solution. CrystEngComm, 2013, 15, 6776.	2.6	15
172	Incorporating Solvent-Dependent Kinetics To Design a Multistage, Continuous, Combined Cooling/Antisolvent Crystallization Process. Organic Process Research and Development, 2019, 23, 1960-1969.	2.7	15
173	A Compact Device for the Integrated Filtration, Drying, and Mechanical Processing of Active Pharmaceutical Ingredients. Journal of Pharmaceutical Sciences, 2020, 109, 1365-1372.	3.3	15
174	Influence of Volume on the Nucleation of Model Organic Molecular Crystals through an Induction Time Approach. Crystal Growth and Design, 2021, 21, 2932-2941.	3.0	15
175	Solvothermal Crystallization Kinetics and Control of Crystal Size Distribution of MOF-808 in a Continuous Flow Reactor. Crystal Growth and Design, 2021, 21, 6529-6536.	3.0	15
176	The effect of crystal size on occlusion formation during crystallization from solution. AICHE Journal, 1981, 27, 1029-1031.	3.6	14
177	Diffusional separation in ternary systems. AICHE Journal, 1986, 32, 1747-1749.	3.6	14
178	The removal of pyritic sulfur from coal employing thiobacillus ferrooxidans in a packed column reactor. Biotechnology and Bioengineering, 1987, 29, 146-150.	3.3	14
179	The growth, dissolution and aging of terephthalic acid crystals. AICHE Journal, 1989, 35, 1749-1752.	3.6	14
180	Formation of inclusions in terephthalic acid crystals. AICHE Journal, 1984, 30, 865-867.	3.6	13

#	Article	IF	Citations
181	Cluster diffusion in metastable solutions. AICHE Journal, 1987, 33, 697-699.	3.6	13
182	Quantitative Solution Measurement for the Selection of Complexing Agents to Enable Purification by Impurity Complexation. Crystal Growth and Design, 2014, 14, 3649-3657.	3.0	13
183	Molecular Modeling on the Role of Local Concentration in the Crystallization ofl-Methionine from Aqueous Solution. Crystal Growth and Design, 2016, 16, 3454-3464.	3.0	13
184	SURMOF induced polymorphism and crystal morphological engineering of acetaminophen polymorphs: advantage of heterogeneous nucleation. CrystEngComm, 2018, 20, 2084-2088.	2.6	13
185	Crystal Nucleation. , 2019, , 76-114.		13
186	On-Demand Manufacturing of Direct Compressible Tablets: Can Formulation Be Simplified?. Pharmaceutical Research, 2019, 36, 167.	3.5	13
187	Mathematical modeling and experimental validation of continuous slug-flow tubular crystallization with ultrasonication-induced nucleation and spatially varying temperature. Chemical Engineering Research and Design, 2021, 169, 275-287.	5.6	13
188	Supersaturated electrolyte solutions: Theory and experiment. Physical Review E, 1995, 52, 3923-3935.	2.1	12
189	Diffusivity of protein in aqueous solutions. Korean Journal of Chemical Engineering, 1996, 13, 288-293.	2.7	12
190	Concluding remarks. Faraday Discussions, 2015, 179, 543-547.	3.2	12
191	Ionic liquids in cross-coupling reactions: â€œliquidâ€•solutions to a â€œsolidâ€•precipitation problem. Chemical Communications, 2018, 54, 2056-2059.	4.1	12
192	Crystal aging and crystal habit of terephthalic acid. AICHE Journal, 1987, 33, 848-852.	3.6	11
193	Ternary Diffusion Coefficients in Metastable Solutions of Glycine-Valine-H2O. AICHE Journal, 1989, 35, 676-678.	3.6	11
194	Diffusion and cluster formation in aqueous solutions of potassium aluminum sulfate. Journal of Crystal Growth, 1997, 181, 61-69.	1.5	11
195	Estimation of crystal growth kinetics using differential scanning calorimetry. Journal of Crystal Growth, 2000, 212, 489-499.	1.5	11
196	Molecular Dynamics Study of the Interactions of Ice Inhibitors on the Ice {001} Surface. Langmuir, 2004, 20, 5353-5357.	3.5	11
197	Statistical Design of Experiment on Contact Secondary Nucleation as a Means of Creating Seed Crystals for Continuous Tubular Crystallizers. Organic Process Research and Development, 2015, 19, 1101-1108.	2.7	11
198	Crystals and Crystal Growth. , 2019, , 32-75.		11

#	Article	IF	Citations
199	Impact of Critical Material Attributes (CMAs)-Particle Shape on Miniature Pharmaceutical Unit Operations. AAPS PharmSciTech, 2021, 22, 98.	3.3	11
200	Purification of terephthalic acid by crystal aging. Industrial & Engineering Chemistry Research, 1990, 29, 2089-2093.	3.7	10
201	Empirical molecular modelling of suspension stabilisation with Polysorbate 80. Molecular Simulation, 2008, 34, 1353-1357.	2.0	10
202	On the connection between nonmonotonic taste behavior and molecular conformation in solution: The case of rebaudioside-A. Journal of Chemical Physics, 2015, 143, 244301.	3.0	10
203	Molecular self-assembly and clustering in nucleation processes: general discussion. Faraday Discussions, 2015, 179, 155-197.	3.2	10
204	Surface functionalization in combination with confinement for crystallization from undersaturated solutions. CrystEngComm, 2018, 20, 6136-6139.	2.6	10
205	Polymorphism and aging in terephthalic acid. Crystal Research and Technology, 1985, 20, 201-208.	1.3	9
206	Gas transport in ring substituted polyanilines. Polymer Engineering and Science, 1997, 37, 868-875.	3.1	9
207	The use of biocompatible crystalline substrates for the heterogeneous nucleation and polymorphic selection of indomethacin. CrystEngComm, 2019, 21, 2193-2202.	2.6	9
208	Transport of gases in miscible polymer blends above and below the glass transition region. AICHE Journal, 1993, 39, 1509-1518.	3.6	8
209	Momentum and mass transfer in supersaturated solutions and crystal growth from solution. Journal of Crystal Growth, 1997, 174, 362-368.	1.5	8
210	The effect of additives on the water activity of supersaturated solutions of Î²-succinic acid. Journal of Crystal Growth, 1999, 206, 99-108.	1.5	8
211	Double Salt Ionic Liquids Containing the Trihexyl(tetradecyl)phosphonium Cation: The Ability to Tune the Solubility of Aromatics, Ethers, and Lipophilic Compounds. ECS Transactions, 2016, 75, 451-465.	0.5	8
212	A new technique for collecting binary vapor-liquid equilibrium data without measuring composition: The method of intersecting isochores. AICHE Journal, 1975, 21, 1111-1114.	3.6	7
213	Concentration gradient formation in supersaturated vertical columns I. Fokker-Planck approximation. Journal of Crystal Growth, 1992, 121, 723-732.	1.5	7
214	Relationship between diffusivity and viscosity for supersaturated electrolyte solutions. Journal of Crystal Growth, 1997, 174, 369-379.	1.5	7
215	Pasteur revisited: chiral separation by crystallization on self-assembled monolayers. CrystEngComm, 2012, 14, 8326.	2.6	7
216	Concentration dependence of solution shear viscosity and solute mass diffusivity in crystal growth from solutions. Physical Review E, 1995, 52, 805-812.	2.1	6

#	Article	IF	Citations
217	The Study of Molecular Materials Using Computational Chemistry. , 1999, , 106-165.		6
218	Diffusion in supersaturated solutions: Application to the case of supersaturated protein solutions. Journal of Chemical Physics, 2000, 112, 4357-4364.	3.0	6
219	Solutions and solution properties. , 2002, , 1-31.		6
220	Nucleation in complex multi-component and multi-phase systems: general discussion. Faraday Discussions, 2015, 179, 503-542.	3.2	6
221	Reversible control of solubility using functionalized nanoparticles. Chemical Communications, 2017, 53, 1429-1432.	4.1	6
222	Two-Stage Crystallizer Design for High Loading of Poorly Water-Soluble Pharmaceuticals in Porous Silica Matrices. Crystals, 2017, 7, 131.	2.2	6
223	Demonstration of pharmaceutical tablet coating process by injection molding technology. International Journal of Pharmaceutics, 2018, 535, 106-112.	5.2	6
224	Polymorph selection: the role of nucleation, crystal growth and molecular modeling. Current Opinion in Drug Discovery & Development, 2007, 10, 746-55.	1.9	6
225	Metastable state relaxation in a gravitational field. Physica A: Statistical Mechanics and Its Applications, 1992, 183, 549-562.	2.6	5
226	Statistics of experiments on cluster formation and transport in a gravitational field. Journal Physics D: Applied Physics, 1993, 26, B123-B127.	2.8	5
227	Purification of nitrophenols using complex-assisted crystallization. CrystEngComm, 2016, 18, 7487-7493.	2.6	5
228	SURMOF Induced Morphological Crystal Engineering of Substituted Benzamides. Crystal Growth and Design, 2018, 18, 7048-7058.	3.0	5
229	Monitoring and Advanced Control of Crystallization Processes. , 2019, , 313-345.		5
230	Tunable protein crystal size distribution via continuous slug-flow crystallization with spatially varying temperature. CrystEngComm, 2021, 23, 6495-6505.	2.6	5
231	Optimization of fuel composition in open-cycle magnetohydrodynamic power generation. Journal of Energy, 1982, 6, 155-157.	0.2	4
232	THE AGGLOMERATION AND AGING OF TEREPHTHALIC ACID PARTICLES IN LIQUID SOLUTION. Particulate Science and Technology, 1983, 1, 409-417.	2.1	4
233	Theory of metastable state relaxation for non-critical binary systems with non-conserved order parameter. Physica A: Statistical Mechanics and Its Applications, 1993, 192, 85-106.	2.6	4
234	Gravity induced formation of concentration gradients in supersaturated binary solutions. Physica A: Statistical Mechanics and Its Applications, 1996, 224, 503-532.	2.6	4

#	Article	IF	Citations
235	Relationship between solution shear viscosity and density at the saturation point. Journal of Crystal Growth, 1996, 166, 261-265.	1.5	4
236	Desorption of water vapor in hydrogen-bonded polymer blends. Journal of Applied Polymer Science, 1998, 70, 39-45.	2.6	4
237	Concomitant cocrystallization on engineered surfaces. CrystEngComm, 2013, 15, 7450.	2.6	4
238	Complexation-Assisted Continuous Crystallization of Isomeric Systems with Nanofiltration Recycle. Crystal Growth and Design, 2017, 17, 5506-5516.	3.0	4
239	Crystallization in the Pharmaceutical Industry. , 2019, , 380-413.		4
240	Methods for Nano-Crystals Preparation. NATO Science for Peace and Security Series A: Chemistry and Biology, 2017, , 275-287.	0.5	4
241	Process Intensification in Continuous Crystallization. , 2020, , 266-320.		4
242	Fuel Development for Open-Loop Combustion-Driven MHD Power Generation. Journal of Energy, 1979, 3, 120-122.	0.2	3
243	A crystal growth model with concentration dependent diffusion. Journal of Crystal Growth, 1984, 67, 380-382.	1.5	3
244	Diffusion of benzene vapor in blends of poly(vinyl acetate) and poly(methyl acrylate). Polymer Engineering and Science, 1991, 31, 1172-1175.	3.1	3
245	Water vapor diffusion in polymer networks. AICHE Journal, 1992, 38, 1481-1484.	3.6	3
246	Theory of metastable state relaxation in a gravitational field for non-critical binary systems with non-conserved order parameter. Journal of Physics A, 1993, 26, 2709-2725.	1.6	3
247	Parametrically driven microparticle in the presence of a stationary zero-mean stochastic source: Model for thermal equilibrium in the Paul trap. Physical Review E, 1994, 50, 702-708.	2.1	3
248	Diffusion of Lysozyme in Buffered Salt Solutions. Industrial & Engineering Chemistry Research, 2011, 50, 10313-10319.	3.7	3
249	General Method for the Identification of Crystal Faces Using Raman Spectroscopy Combined with Machine Learning and Application to the Epitaxial Growth of Acetaminophen. Langmuir, 2018, 34, 9836-9846.	3.5	3
250	Solutions and Solution Properties. , 2019, , 1-31.		3
251	The Influence of Impurities and Additives on Crystallization. , 2019, , 115-135.		3
252	Molecular Modeling Applications in Crystallization. , 2019, , 136-171.		3

#	Article	IF	Citations
253	Selection and Design of Industrial Crystallizers. , 2019, , 197-215.		3
254	Nitric oxide gas absorption in a limestone packed column. AICHE Journal, 1981, 27, 518-521.	3.6	2
255	Calculation of Crystal Habit and Solvent-Accessible Areas of Sucrose and Adipic Acid Crystals. ACS Symposium Series, 1990, , 55-71.	0.5	2
256	Diffusivity, viscosity, and cluster formation in protein solutions. Biotechnology and Bioprocess Engineering, 1997, 2, 64-67.	2.6	2
257	Crystallization of Proteins. , 2019, , 414-459.		2
258	Vapor-phase growth forms and purification of 1,4-benzenedicarâ˜ylic acid. Journal of Crystal Growth, 1986, 74, 217-220.	1.5	1
259	GTRC process for removing inorganic impurities from spent hydrodesulfurization catalysts. Mining, Metallurgy and Exploration, 1987, 4, 78-82.	0.8	1
260	Nucleation in non-critical binary systems. Journal of Crystal Growth, 1993, 128, 139-143.	1.5	1
261	Parameter estimation for analysis of vapor diffusion in polymers. Polymer Engineering and Science, 1994, 34, 1250-1253.	3.1	1
262	Diffusion of gases in polymer blends near the lower critical solution temperature. AICHE Journal, 1995, 41, 166-170.	3.6	1
263	Thermodynamic and statistical studies of supersaturated ternary solutions. Physical Review E, 1999, 60, 3211-3218.	2.1	1
264	Structure Formation Due to Non-Equilibrium Liquid-Liquid Phase Separation in Polypropylene Solutions. , 1993, , 209-223.		1
265	Multicomponent, multiphase vapor-liquid equilibrium data from the method of intersecting isochores. AICHE Journal, 1976, 22, 399-400.	3.6	0
266	Condensation of aluminum when used as a fuel additive in MHD power generation. Journal of Energy, 1980, 4, 44-46.	0.2	0
267	The formation of solvent inclusions during continuous msmpr crystallization. AICHE Journal, 1985, 31, 1718-1720.	3.6	0
268	Structural effects on vapor diffusivity in rigid polymers. Journal of Applied Polymer Science, 1993, 50, 271-275.	2.6	0
269	Influence of Centrifugation on Cluster Formation and Nucleation. , 1997, , 189-196.		0