

# Allan Myerson

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5969560/allan-myerson-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

269  
papers

11,274  
citations

54  
h-index

96  
g-index

275  
ext. papers

12,350  
ext. citations

4.3  
avg, IF

6.48  
L-index

#	Paper	IF	Citations
269	Nucleation of crystals from solution: classical and two-step models. <i>Accounts of Chemical Research</i> , <b>2009</b> , 42, 621-9	24.3	719
268	Polymorphs, Salts, and Cocrystals: What's in a Name?. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 2147-2152	3.5	595
267	On-demand continuous-flow production of pharmaceuticals in a compact, reconfigurable system. <i>Science</i> , <b>2016</b> , 352, 61-7	33.3	578
266	End-to-end continuous manufacturing of pharmaceuticals: integrated synthesis, purification, and final dosage formation. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 12359-63	16.4	426
265	Pharmaceutical Crystallization. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 887-895	3.5	365
264	Crystal polymorphism in chemical process development. <i>Annual Review of Chemical and Biomolecular Engineering</i> , <b>2011</b> , 2, 259-80	8.9	259
263	Polarization switching of crystal structure in the nonphotochemical light-induced nucleation of supersaturated aqueous glycine solutions. <i>Physical Review Letters</i> , <b>2002</b> , 89, 175501	7.4	229
262	Continuous Plug Flow Crystallization of Pharmaceutical Compounds. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 2219-2228	3.5	213
261	Nonphotochemical, Polarization-Dependent, Laser-Induced Nucleation in Supersaturated Aqueous Urea Solutions. <i>Physical Review Letters</i> , <b>1996</b> , 77, 3475-3476	7.4	190
260	Nonphotochemical, Laser-Induced Nucleation of Supersaturated Aqueous Glycine Produces Unexpected $\beta$ Polymorph. <i>Crystal Growth and Design</i> , <b>2001</b> , 1, 5-8	3.5	178
259	Surface design for controlled crystallization: the role of surface chemistry and nanoscale pores in heterogeneous nucleation. <i>Langmuir</i> , <b>2011</b> , 27, 5324-34	4	156
258	Crystallization on confined engineered surfaces: a method to control crystal size and generate different polymorphs. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14982-3	16.4	140
257	Chemistry. Nucleation from solution. <i>Science</i> , <b>2013</b> , 341, 855-6	33.3	135
256	The role of nanopore shape in surface-induced crystallization. <i>Nature Materials</i> , <b>2011</b> , 10, 867-71	27	134
255	Crystallization Monitoring by Raman Spectroscopy: Simultaneous Measurement of Desupersaturation Profile and Polymorphic Form in Flufenamic Acid Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 1233-1240	3.9	123
254	Crystallization of Cyclosporine in a Multistage Continuous MSMRP Crystallizer. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 4392-4400	3.5	116
253	SAXS Study of the Nucleation of Glycine Crystals from a Supersaturated Solution. <i>Crystal Growth and Design</i> , <b>2005</b> , 5, 523-527	3.5	115

252	Gel-induced selective crystallization of polymorphs. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 673-84	16.4	113
251	Continuous Crystallization of Aliskiren Hemifumarate. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 3036-3044	3.5	112
250	Supersaturation and Polarization Dependence of Polymorph Control in the Nonphotochemical Laser-Induced Nucleation (NPLIN) of Aqueous Glycine Solutions. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 684-689	3.5	106
249	Development of Continuous Crystallization Processes Using a Single-Stage Mixed-Suspension, Mixed-Product Removal Crystallizer with Recycle. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 5701-5707	3.5	100
248	Achieving continuous manufacturing for final dosage formation: challenges and how to meet them. May 20-21, 2014 Continuous Manufacturing Symposium. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 792-802	3.9	98
247	Determination of Solubility of Polymorphs Using Differential Scanning Calorimetry. <i>Crystal Growth and Design</i> , <b>2003</b> , 3, 991-995	3.5	97
246	Strong dc electric field applied to supersaturated aqueous glycine solution induces nucleation of the gamma polymorph. <i>Physical Review Letters</i> , <b>2005</b> , 94, 145503	7.4	95
245	Development of Continuous Anti-Solvent/Cooling Crystallization Process using Cascaded Mixed Suspension, Mixed Product Removal Crystallizers. <i>Organic Process Research and Development</i> , <b>2012</b> , 16, 915-924	3.9	94
244	Solubility Measurement Using Differential Scanning Calorimetry. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 4854-4862	3.9	88
243	Nucleation Induction Time in Levitated Droplets. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 10672-10677	3.4	86
242	Side-chain order in poly(3-alkylthiophenes). <i>Macromolecules</i> , <b>1993</b> , 26, 1318-1323	5.5	83
241	Influence of Impurities on the Solution-Mediated Phase Transformation of an Active Pharmaceutical Ingredient. <i>Crystal Growth and Design</i> , <b>2005</b> , 5, 1429-1436	3.5	82
240	Use of Continuous MSMR Crystallization with Integrated Nanofiltration Membrane Recycle for Enhanced Yield and Purity in API Crystallization. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 617-627	3.5	79
239	Controlled nucleation from solution using polymer microgels. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 3756-9	16.4	78
238	THF-water hydrate crystallization: an experimental investigation. <i>Journal of Crystal Growth</i> , <b>1999</b> , 204, 525-538	1.6	76
237	Control systems engineering in continuous pharmaceutical manufacturing. May 20-21, 2014 Continuous Manufacturing Symposium. <i>Journal of Pharmaceutical Sciences</i> , <b>2015</b> , 104, 832-9	3.9	73
236	Production and characterization of carbamazepine nanocrystals by electrospraying for continuous pharmaceutical manufacturing. <i>Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 101, 1178-88	3.9	72
235	Control of Polymorphism in Continuous Crystallization via Mixed Suspension Mixed Product Removal Systems Cascade Design. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 3374-3382	3.5	70

234	Comparison of fouling propensity between reverse osmosis, forward osmosis, and membrane distillation. <i>Journal of Membrane Science</i> , <b>2018</b> , 556, 352-364	9.6	70
233	Crystals, crystal growth, and nucleation <b>2002</b> , 33-65		70
232	A comparison of binding energy and metastable zone width for adipic acid with various additives. <i>Journal of Crystal Growth</i> , <b>1995</b> , 156, 459-466	1.6	68
231	Nucleation and Growth of Glycine Crystals on Self-Assembled Monolayers on Gold. <i>Langmuir</i> , <b>2000</b> , 16, 3791-3796	4	66
230	Diffusion and cluster formation in supersaturated solutions. <i>Journal of Crystal Growth</i> , <b>1990</b> , 99, 1048-1052	1.6	65
229	Cluster size estimation in binary supersaturated solutions. <i>Journal of Crystal Growth</i> , <b>1992</b> , 116, 41-47	1.6	64
228	Crystallization of Amino Acids on Self-Assembled Monolayers of Rigid Thiols on Gold. <i>Langmuir</i> , <b>2002</b> , 18, 5886-5898	4	63
227	The adsorption of <i>Thiobacillus ferrooxidans</i> on coal surfaces. <i>Biotechnology and Bioengineering</i> , <b>1986</b> , 28, 467-79	4.9	63
226	Thermally induced phase separation in ternary crystallizable polymer solutions. <i>Journal of Membrane Science</i> , <b>1994</b> , 89, 37-50	9.6	62
225	Nonequilibrium liquid-liquid phase separation in crystallizable polymer solutions. <i>Macromolecules</i> , <b>1992</b> , 25, 4002-4010	5.5	62
224	Concomitant Crystallization of Glycine on Patterned Substrates: The Effect of pH on the Polymorphic Outcome. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 108-113	3.5	61
223	Cluster formation and diffusion in supersaturated binary and ternary amino acid solutions. <i>Journal of Crystal Growth</i> , <b>1991</b> , 110, 26-33	1.6	61
222	Application of Continuous Crystallization in an Integrated Continuous Pharmaceutical Pilot Plant. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 2148-2157	3.5	60
221	A statistical understanding of nucleation. <i>Journal of Crystal Growth</i> , <b>1999</b> , 196, 234-242	1.6	60
220	Advanced Continuous Flow Platform for On-Demand Pharmaceutical Manufacturing. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 2776-2784	4.8	59
219	Biocompatible Alginate Microgel Particles as Heteronucleants and Encapsulating Vehicles for Hydrophilic and Hydrophobic Drugs. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 2073-2082	3.5	57
218	End-to-End Continuous Manufacturing of Pharmaceuticals: Integrated Synthesis, Purification, and Final Dosage Formation. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 12585-12589	3.6	56
217	Multistage Continuous Mixed-Suspension, Mixed-Product Removal (MSMPR) Crystallization with Solids Recycle. <i>Organic Process Research and Development</i> , <b>2016</b> , 20, 510-516	3.9	55

216	The diffusivity of potassium chloride and sodium chloride in concentrated, saturated, and supersaturated aqueous solutions. <i>AICHE Journal</i> , <b>1985</b> , 31, 890-894	3.6	55
215	Free surface electrospinning of fibers containing microparticles. <i>Langmuir</i> , <b>2012</b> , 28, 9714-21	4	54
214	Toward the Rational Design of Crystalline Surfaces for Heteroepitaxy: Role of Molecular Functionality. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 1159-1166	3.5	54
213	Factors Affecting the Polymorphic Outcome of Glycine Crystals Constrained on Patterned Substrates. <i>Chemical Engineering and Technology</i> , <b>2006</b> , 29, 281-285	2	54
212	Continuous Crystallization and Polymorph Dynamics in the L-Glutamic Acid System. <i>Organic Process Research and Development</i> , <b>2014</b> , 18, 1382-1390	3.9	52
211	Solid forms of pharmaceuticals: Polymorphs, salts and cocrystals. <i>Korean Journal of Chemical Engineering</i> , <b>2011</b> , 28, 315-322	2.8	52
210	Intensity, Wavelength, and Polarization Dependence of Nonphotochemical Laser-Induced Nucleation in Supersaturated Aqueous Urea Solutions. <i>Crystal Growth and Design</i> , <b>2005</b> , 5, 1565-1567	3.5	52
209	Growth kinetics: a thermodynamic approach. <i>Chemical Engineering Science</i> , <b>2002</b> , 57, 4277-4285	4.4	52
208	Cluster formation in highly supersaturated solution droplets. <i>Journal of Crystal Growth</i> , <b>1994</b> , 139, 104-118	1.8	52
207	Relationship between self-association of glycine molecules in supersaturated solutions and solid state outcome. <i>Physical Review Letters</i> , <b>2007</b> , 99, 115702	7.4	51
206	Effect of Additives on the Transformation Behavior of L-Phenylalanine in Aqueous Solution. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 6111-6117	3.9	51
205	Diffusivity of glycine in concentrated saturated and supersaturated aqueous solutions. <i>AICHE Journal</i> , <b>1986</b> , 32, 1567-1569	3.6	51
204	Using magnetic levitation to separate mixtures of crystal polymorphs. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 10208-11	16.4	50
203	Formation of nanosized organic molecular crystals on engineered surfaces. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 18212-3	16.4	50
202	The adsorption of Thiobacillus ferrooxidans on solid particles. <i>Biotechnology and Bioengineering</i> , <b>1983</b> , 25, 1669-76	4.9	50
201	Diffusivity of urea in concentrated, saturated and supersaturated solutions. <i>AICHE Journal</i> , <b>1982</b> , 28, 772-779	3.6	50
200	Nucleating Agents in Polypropylene. <i>Magyar Árvad Kémények</i> , <b>2000</b> , 59, 497-508	0	49
199	Nucleation under Soft Confinement: Role of Polymer-Solute Interactions. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 508-517	3.5	48

198	Polymorphic control by heterogeneous nucleation - A new method for selecting crystalline substrates. <i>CrystEngComm</i> , <b>2011</b> , 13, 6625	3.3	48
197	Growth models of the continuous bacterial leaching of iron pyrite by <i>Thiobacillus ferrooxidans</i> . <i>Biotechnology and Bioengineering</i> , <b>1982</b> , 24, 889-902	4.9	48
196	Nonphotochemical Laser Induced Nucleation of Hen Egg White Lysozyme Crystals. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 4255-4261	3.5	46
195	Polymorph Screening: Comparing a Semi-Automated Approach with a High Throughput Method. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 4181-4188	3.5	44
194	Polarization Switching of Crystal Structure in the Nonphotochemical Laser-Induced Nucleation of Supersaturated Aqueous L-Histidine. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 1720-1722	3.5	44
193	The Solubility of Orthorhombic Lysozyme Crystals Obtained at High pH. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 3313-3317	3.5	43
192	Concomitant polymorphism in confined environment. <i>Pharmaceutical Research</i> , <b>2008</b> , 25, 960-8	4.5	43
191	Self-assembled monolayers of rigid thiols. <i>Reviews in Molecular Biotechnology</i> , <b>2000</b> , 74, 175-88		43
190	Confined crystallization of fenofibrate in nanoporous silica. <i>CrystEngComm</i> , <b>2015</b> , 17, 7922-7929	3.3	42
189	Electrospun formulations containing crystalline active pharmaceutical ingredients. <i>Pharmaceutical Research</i> , <b>2013</b> , 30, 238-46	4.5	41
188	Polymorph Control of Micro/Nano-Sized Mefenamic Acid Crystals on Patterned Self-Assembled Monolayer Islands. <i>Crystal Growth and Design</i> , <b>2012</b> , 12, 5521-5528	3.5	41
187	Regulating Nucleation Kinetics through Molecular Interactions at the Polymer/Solute Interface. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 678-686	3.5	40
186	Crystal growth on self-assembled monolayers. <i>CrystEngComm</i> , <b>2011</b> , 13, 24-32	3.3	40
185	Estimation of the Solubility of Metastable Polymorphs: A Critical Review. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 7228-7237	3.5	40
184	Metastable Solution Thermodynamic Properties and Crystal Growth Kinetics. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1996</b> , 35, 1078-1084	3.9	38
183	Continuous Spherical Crystallization of Albuterol Sulfate with Solvent Recycle System. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 5149-5156	3.5	37
182	Solid-state NMR characterization of high-loading solid solutions of API and excipients formed by electrospinning. <i>Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 101, 1538-45	3.9	37
181	Concomitant Crystallization of ROY on Patterned Substrates: Using a High Throughput Method to Improve the Chances of Crystallization of Different Polymorphs. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 1182-1185 <sup>36</sup>		

180	Water activity in supersaturated aqueous solutions of organic solutes. <i>Journal of Crystal Growth</i> , <b>1995</b> , 149, 229-235	1.6	36
179	Continuous Crystallization of Cyclosporine: Effect of Operating Conditions on Yield and Purity. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 1000-1007	3.5	34
178	Nucleation and Growth Kinetics for Combined Cooling and Antisolvent Crystallization in a Mixed-Suspension, Mixed-Product Removal System: Estimating Solvent Dependency. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 1560-1570	3.5	33
177	Phase Transformation of Sulfamerazine Using a Taylor Vortex. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 5019-5029	3.5	33
176	Development of a Small-Scale Automated Solubility Measurement Apparatus. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 5427-5433	3.9	33
175	Continuous bacterial coal desulfurization employing <i>Thiobacillus ferrooxidans</i> . <i>Biotechnology and Bioengineering</i> , <b>1984</b> , 26, 92-9	4.9	33
174	Core-Shell Composite Hydrogels for Controlled Nanocrystal Formation and Release of Hydrophobic Active Pharmaceutical Ingredients. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1960-8	10.1	33
173	Composite Hydrogels Laden with Crystalline Active Pharmaceutical Ingredients of Controlled Size and Loading. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 6213-6220	9.6	32
172	Molecular Dynamics of Nucleation and Crystallization of Polymers. <i>Crystal Growth and Design</i> , <b>2001</b> , 1, 131-142	3.5	32
171	Control of Heterogeneous Nucleation via Rationally Designed Biocompatible Polymer Surfaces with Nanoscale Features. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 2176-2186	3.5	31
170	The Use of Cooling Crystallization in an Ionic Liquid System for the Purification of Pharmaceuticals. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 4946-4951	3.5	31
169	Contact Secondary Nucleation as a Means of Creating Seeds for Continuous Tubular Crystallizers. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 2514-2521	3.5	31
168	Polymorphism control of nanosized glycine crystals on engineered surfaces. <i>CrystEngComm</i> , <b>2011</b> , 13, 1127-1131	3.3	30
167	Cocrystal formation by ionic liquid-assisted grinding: case study with cocrystals of caffeine. <i>CrystEngComm</i> , <b>2018</b> , 20, 3817-3821	3.3	29
166	Separation of impurities from solution by selective co-crystal formation. <i>CrystEngComm</i> , <b>2012</b> , 14, 2386-2388	3.3	29
165	The effect of hydrogen bonding on vapor diffusion in water-soluble polymers. <i>Journal of Applied Polymer Science</i> , <b>1997</b> , 66, 279-291	2.9	29
164	Effect of impurities on cluster growth and nucleation. <i>Journal of Crystal Growth</i> , <b>1993</b> , 126, 216-222	1.6	29
163	The theoretical shape of sucrose crystals from energy calculations. <i>Journal of Crystal Growth</i> , <b>1983</b> , 61, 546-555	1.6	29

162	Experimental Evaluation of Contact Secondary Nucleation Mechanisms. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 5152-5157	3.5	28
161	Compact and Integrated Approach for Advanced End-to-End Production, Purification, and Aqueous Formulation of Lidocaine Hydrochloride. <i>Organic Process Research and Development</i> , <b>2016</b> , 20, 1347-1353	3.9	27
160	Geometric Design of Heterogeneous Nucleation Sites on Biocompatible Surfaces. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 3835-3841	3.5	27
159	Continuous Heterogeneous Crystallization on Excipient Surfaces. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 3321-3330	3.5	26
158	Templated nucleation of acetaminophen on spherical excipient agglomerates. <i>Langmuir</i> , <b>2013</b> , 29, 3292-3300	4.0	26
157	Polymorph control in batch seeded crystallizers. A case study with paracetamol. <i>CrystEngComm</i> , <b>2019</b> , 21, 2105-2118	3.3	25
156	Gas transport properties of polyaniline membranes. <i>Journal of Applied Polymer Science</i> , <b>1996</b> , 62, 1427-1436	4.36	25
155	Kinetics of dissolution of alumina in acidic solution. <i>AIChE Journal</i> , <b>1987</b> , 33, 267-273	3.6	25
154	Impact of Ultrasonic Energy on the Crystallization of Dextrose Monohydrate. <i>Crystal Growth and Design</i> , <b>2003</b> , 3, 741-746	3.5	24
153	Hydrophobic vs. hydrophilic ionic liquid separations strategies in support of continuous pharmaceutical manufacturing. <i>RSC Advances</i> , <b>2013</b> , 3, 10019	3.7	23
152	Understanding and Analyzing Freezing-Point Transitions of Confined Fluids within Nanopores. <i>Langmuir</i> , <b>2015</b> , 31, 10113-8	4	22
151	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. <i>ChemPhysChem</i> , <b>2015</b> , 16, 993-1002	3.2	22
150	Oxygen mass transfer requirements during the growth of <i>Thiobacillus ferrooxidans</i> on iron pyrite. <i>Biotechnology and Bioengineering</i> , <b>1981</b> , 23, 1413-1416	4.9	22
149	Self-association during heterogeneous nucleation onto well-defined templates. <i>Langmuir</i> , <b>2014</b> , 30, 12368-75	4	21
148	Particle Engineering: Fundamentals of Particle Formation and Crystal Growth. <i>MRS Bulletin</i> , <b>2006</b> , 31, 881-886	3.2	21
147	Crystallization of Solid-State Materials in Nonaqueous Gels. 1. Silver Bromide. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 585-586	16.4	21
146	Continuous Crystallization with Impurity Complexation and Nanofiltration Recycle. <i>Organic Process Research and Development</i> , <b>2017</b> , 21, 253-261	3.9	20
145	Experimental and Mechanistic Study of the Heterogeneous Nucleation and Epitaxy of Acetaminophen with Biocompatible Crystalline Substrates. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 3783-3795	3.5	20



144	Novel Technique for Filtration Avoidance in Continuous Crystallization. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 285-296	3.5	20
143	Diffusion and cluster formation in supersaturated solutions of ammonium sulfate at 298 K. <i>Journal of Crystal Growth</i> , <b>2000</b> , 217, 393-403	1.6	20
142	Gypsum Crystallization during Phosphoric Acid Production: Modeling and Experiments Using the Mixed-Solvent-Electrolyte Thermodynamic Model. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2015</b> , 54, 7914-7924	3.9	19
141	Continuous Production of Five Active Pharmaceutical Ingredients in Flexible Plug-and-Play Modules: A Demonstration Campaign. <i>Organic Process Research and Development</i> , <b>2020</b> , 24, 2183-2196	3.9	19
140	Exploring the role of ionic liquids to tune the polymorphic outcome of organic compounds. <i>Chemical Science</i> , <b>2018</b> , 9, 1510-1520	9.4	19
139	Compact Crystallization, Filtration, and Drying for the Production of Active Pharmaceutical Ingredients. <i>Organic Process Research and Development</i> , <b>2013</b> , 17, 684-692	3.9	19
138	Thermodynamic Properties of Supersaturated Protein Solutions. <i>Crystal Growth and Design</i> , <b>2004</b> , 4, 199-208	3.5	19
137	Impurity Trapping during Dendritic Crystal Growth. 1. Computer Simulation. <i>Industrial &amp; Engineering Chemistry Fundamentals</i> , <b>1977</b> , 16, 414-420		19
136	Development of Maltodextrin-Based Immediate-Release Tablets Using an Integrated Twin-Screw Hot-Melt Extrusion and Injection-Molding Continuous Manufacturing Process. <i>Journal of Pharmaceutical Sciences</i> , <b>2017</b> , 106, 3328-3336	3.9	18
135	Impurity Trapping during Dendritic Crystal Growth. 2. Experimental Results and Correlation. <i>Industrial &amp; Engineering Chemistry Fundamentals</i> , <b>1977</b> , 16, 420-425		18
134	Mathematical Modeling of Layer Crystallization on a Cold Column with Recirculation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 5019-5029	3.9	18
133	Nanocrystal formation and polymorphism of glycine. <i>CrystEngComm</i> , <b>2015</b> , 17, 723-728	3.3	17
132	Low Energy Nanoemulsions as Templates for the Formulation of Hydrophobic Drugs. <i>Advanced Therapeutics</i> , <b>2018</b> , 1, 1700020	4.9	17
131	Formation of Organic Molecular Nanocrystals under Rigid Confinement with Analysis by Solid State NMR. <i>CrystEngComm</i> , <b>2014</b> , 16, 9345-9352	3.3	17
130	Integrated hot-melt extrusion - injection molding continuous tablet manufacturing platform: Effects of critical process parameters and formulation attributes on product robustness and dimensional stability. <i>International Journal of Pharmaceutics</i> , <b>2017</b> , 531, 332-342	6.5	17
129	A Process for the Formation of Nanocrystals of Active Pharmaceutical Ingredients with Poor Aqueous Solubility in a Nanoporous Substrate. <i>Organic Process Research and Development</i> , <b>2015</b> , 19, 1109-1118	3.9	17
128	Diffusivity of lysozyme in undersaturated, saturated and supersaturated solutions. <i>Journal of Crystal Growth</i> , <b>1994</b> , 143, 79-85	1.6	17
127	Diffusion coefficients near the spinodal curve. <i>AIChE Journal</i> , <b>1984</b> , 30, 1004-1006	3.6	17

126	Mechanism of Contact-Induced Heterogeneous Nucleation. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 6131-6138	3.8	17
125	The A Priori Design and Selection of Ionic Liquids as Solvents for Active Pharmaceutical Ingredients. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 5498-5508	4.8	16
124	Angle-Directed Nucleation of Paracetamol on Biocompatible Nanoimprinted Polymers. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 2955-2963	3.5	16
123	Inhibition of Nucleation Using a Dilute, Weakly Hydrogen-Bonding Molecular Additive. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 3584-3595	3.5	16
122	Mathematical modeling and design of layer crystallization in a concentric annulus with and without recirculation. <i>AIChE Journal</i> , <b>2013</b> , 59, 1308-1321	3.6	16
121	Thermodynamic studies of levitated microdroplets of highly supersaturated electrolyte solutions. <i>Journal of Crystal Growth</i> , <b>1996</b> , 166, 981-988	1.6	16
120	Solvent selection and batch crystallization. <i>Industrial &amp; Engineering Chemistry Process Design and Development</i> , <b>1986</b> , 25, 925-929		16
119	Crystallization of Calcium Sulphate During Phosphoric Acid Production: Modeling Particle Shape and Size Distribution. <i>Procedia Engineering</i> , <b>2016</b> , 138, 390-402		16
118	Custom-Built Miniature Continuous Crystallization System with Pressure-Driven Suspension Transfer. <i>Organic Process Research and Development</i> , <b>2016</b> , 20, 1276-1282	3.9	15
117	Nucleation Inhibition of Benzoic Acid through Solution Complexation. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 2646-2653	3.5	14
116	Using Magnetic Levitation to Separate Mixtures of Crystal Polymorphs. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 10398-10401	3.6	14
115	Separate mechanisms of ion oligomerization tune the physicochemical properties of n-butylammonium acetate: cation-base clusters vs. anion-acid dimers. <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 25544-25554	3.6	14
114	The growth, dissolution and aging of terephthalic acid crystals. <i>AIChE Journal</i> , <b>1989</b> , 35, 1749-1752	3.6	14
113	Effect of Air Injection on Nucleation Rates: An Approach from Induction Time Statistics. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 3287-3294	3.5	13
112	Formation of Organic Molecular Nanocrystals under Soft Confinement. <i>CrystEngComm</i> , <b>2015</b> , 17, 6044-6052	3.5	13
111	Impact of Ultrasonic Energy on the Flow Crystallization of Dextrose Monohydrate. <i>Crystal Growth and Design</i> , <b>2004</b> , 4, 687-690	3.5	13
110	Microparticle driven by parametric and random forces: Theory and experiment. <i>Physical Review E</i> , <b>1995</b> , 52, 1325-1332	2.4	13
109	Diffusional separation in ternary systems. <i>AIChE Journal</i> , <b>1986</b> , 32, 1747-1749	3.6	13

108	The removal of pyritic sulfur from coal employing <i>Thiobacillus ferrooxidans</i> in a packed column reactor. <i>Biotechnology and Bioengineering</i> , <b>1987</b> , 29, 146-50	4.9	13
107	Methods for estimating supersaturation in antisolvent crystallization systems. <i>CrystEngComm</i> , <b>2019</b> , 21, 5811-5817	3.3	12
106	Mixed-Suspension, Mixed-Product Removal Studies of Ciprofloxacin from Pure and Crude Active Pharmaceutical Ingredients: The Role of Impurities on Solubility and Kinetics. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 4008-4018	3.5	12
105	A compact, portable, re-configurable, and automated system for on-demand pharmaceutical tablet manufacturing. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 539, 157-164	6.5	12
104	SURMOF induced polymorphism and crystal morphological engineering of acetaminophen polymorphs: advantage of heterogeneous nucleation. <i>CrystEngComm</i> , <b>2018</b> , 20, 2084-2088	3.3	12
103	Incorporating Solvent-Dependent Kinetics To Design a Multistage, Continuous, Combined Cooling/Antisolvent Crystallization Process. <i>Organic Process Research and Development</i> , <b>2019</b> , 23, 1960-1969	3.9	12
102	Quantitative Solution Measurement for the Selection of Complexing Agents to Enable Purification by Impurity Complexation. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 3649-3657	3.5	12
101	Purification of Structurally Similar Compounds by the Formation of Impurity Co-Former Complexes in Solution. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 1577-1582	3.5	12
100	CFD simulations for analysis and scale-up of anti-solvent crystallization. <i>AIChE Journal</i> , <b>2006</b> , 52, 3621-3625	3.25	12
99	Cluster diffusion in metastable solutions. <i>AIChE Journal</i> , <b>1987</b> , 33, 697-699	3.6	12
98	Molecular Modeling on the Role of Local Concentration in the Crystallization of L-Methionine from Aqueous Solution. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 3454-3464	3.5	12
97	Purification of amoxicillin trihydrate by impurity-coformer complexation in solution. <i>CrystEngComm</i> , <b>2013</b> , 15, 6776	3.3	11
96	Diffusion and cluster formation in aqueous solutions of potassium aluminum sulfate. <i>Journal of Crystal Growth</i> , <b>1997</b> , 181, 61-69	1.6	11
95	The Gel-Crystallization of L-Phenylalanine and Aspartame from Aqueous Solutions. <i>Chemical Engineering Communications</i> , <b>2002</b> , 189, 1079-1090	2.2	11
94	Estimation of crystal growth kinetics using differential scanning calorimetry. <i>Journal of Crystal Growth</i> , <b>2000</b> , 212, 489-499	1.6	11
93	Supersaturated electrolyte solutions: Theory and experiment. <i>Physical Review E</i> , <b>1995</b> , 52, 3923-3935	2.4	11
92	Formation of inclusions in terephthalic acid crystals. <i>AIChE Journal</i> , <b>1984</b> , 30, 865-867	3.6	11
91	Polymorph Control in MSMPR Crystallizers. A Case Study with Paracetamol. <i>Organic Process Research and Development</i> , <b>2019</b> , 23, 794-806	3.9	10

90	Diffusivity of protein in aqueous solutions. <i>Korean Journal of Chemical Engineering</i> , <b>1996</b> , 13, 288-293	2.8	10
89	Ternary Diffusion Coefficients in Metastable Solutions of Glycine-Valine-H <sub>2</sub> O. <i>AIChE Journal</i> , <b>1989</b> , 35, 676-678	3.6	10
88	The effect of crystal size on occlusion formation during crystallization from solution. <i>AIChE Journal</i> , <b>1981</b> , 27, 1029-1031	3.6	10
87	Solubility Studies of Cyclosporine Using Ionic Liquids. <i>ACS Omega</i> , <b>2019</b> , 4, 7938-7943	3.9	9
86	Concluding remarks. <i>Faraday Discussions</i> , <b>2015</b> , 179, 543-7	3.6	9
85	Chiral self assembled monolayers as resolving auxiliaries in the crystallization of valine. <i>Journal of Pharmaceutical Sciences</i> , <b>2010</b> , 99, 3931-40	3.9	9
84	Gas transport in ring substituted polyanilines. <i>Polymer Engineering and Science</i> , <b>1997</b> , 37, 868-875	2.3	9
83	Molecular dynamics study of the interactions of ice inhibitors on the ice {001} surface. <i>Langmuir</i> , <b>2004</b> , 20, 5353-7	4	9
82	A Compact Device for the Integrated Filtration, Drying, and Mechanical Processing of Active Pharmaceutical Ingredients. <i>Journal of Pharmaceutical Sciences</i> , <b>2020</b> , 109, 1365-1372	3.9	9
81	On-Demand Continuous Manufacturing of Ciprofloxacin in Portable Plug-and-Play Factories: Implementation and In Situ Control of Downstream Production. <i>Organic Process Research and Development</i> , <b>2021</b> , 25, 1534-1546	3.9	9
80	Surface functionalization in combination with confinement for crystallization from undersaturated solutions. <i>CrystEngComm</i> , <b>2018</b> , 20, 6136-6139	3.3	9
79	Molecular self-assembly and clustering in nucleation processes: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 179, 155-97	3.6	8
78	Ionic liquids in cross-coupling reactions: "liquid" solutions to a "solid" precipitation problem. <i>Chemical Communications</i> , <b>2018</b> , 54, 2056-2059	5.8	8
77	Crystals and Crystal Growth <b>2019</b> , 32-75		8
76	On the connection between nonmonotonic taste behavior and molecular conformation in solution: The case of rebaudioside-A. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 244301	3.9	8
75	The effect of additives on the water activity of supersaturated solutions of succinic acid. <i>Journal of Crystal Growth</i> , <b>1999</b> , 206, 99-108	1.6	8
74	Purification of terephthalic acid by crystal aging. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1990</b> , 29, 2089-2093	3.9	8
73	Momentum and mass transfer in supersaturated solutions and crystal growth from solution. <i>Journal of Crystal Growth</i> , <b>1997</b> , 174, 362-368	1.6	7

72	Empirical molecular modelling of suspension stabilisation with Polysorbate 80. <i>Molecular Simulation</i> , <b>2008</b> , 34, 1353-1357	2	7
71	Concentration gradient formation in supersaturated vertical columns I. Fokker-Planck approximation. <i>Journal of Crystal Growth</i> , <b>1992</b> , 121, 723-732	1.6	7
70	Crystal aging and crystal habit of terephthalic acid. <i>AICHE Journal</i> , <b>1987</b> , 33, 848-852	3.6	7
69	Double Salt Ionic Liquids Containing the Trihexyl(tetradecyl)phosphonium Cation: The Ability to Tune the Solubility of Aromatics, Ethers, and Lipophilic Compounds. <i>ECS Transactions</i> , <b>2016</b> , 75, 451-465 <sup>1</sup>		7
68	Development of Continuous Spherical Crystallization to Prepare Fenofibrate Agglomerates with Impurity Complexation Using Mixed-Suspension, Mixed-Product Removal Crystallizer. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 6448-6454	3.5	7
67	Reversible control of solubility using functionalized nanoparticles. <i>Chemical Communications</i> , <b>2017</b> , 53, 1429-1432	5.8	6
66	Crystal Nucleation <b>2019</b> , 76-114		6
65	Statistical Design of Experiment on Contact Secondary Nucleation as a Means of Creating Seed Crystals for Continuous Tubular Crystallizers. <i>Organic Process Research and Development</i> , <b>2015</b> , 19, 1101-1108	3.9	6
64	Pasteur revisited: chiral separation by crystallization on self-assembled monolayers. <i>CrystEngComm</i> , <b>2012</b> , 14, 8326	3.3	6
63	Relationship between diffusivity and viscosity for supersaturated electrolyte solutions. <i>Journal of Crystal Growth</i> , <b>1997</b> , 174, 369-379	1.6	6
62	Diffusion in supersaturated solutions: Application to the case of supersaturated protein solutions. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 4357-4364	3.9	6
61	The Study of Molecular Materials Using Computational Chemistry <b>1999</b> , 106-165		6
60	Concentration dependence of solution shear viscosity and solute mass diffusivity in crystal growth from solutions. <i>Physical Review E</i> , <b>1995</b> , 52, 805-812	2.4	6
59	Polymorphism and aging in terephthalic acid. <i>Crystal Research and Technology</i> , <b>1985</b> , 20, 201-208	1.3	6
58	A new technique for collecting binary vapor-liquid equilibrium data without measuring composition: The method of intersecting isochores. <i>AICHE Journal</i> , <b>1975</b> , 21, 1111-1114	3.6	6
57	Demonstration of pharmaceutical tablet coating process by injection molding technology. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 535, 106-112	6.5	6
56	Polymorph selection: the role of nucleation, crystal growth and molecular modeling. <i>Current Opinion in Drug Discovery &amp; Development</i> , <b>2007</b> , 10, 746-55		6
55	The use of biocompatible crystalline substrates for the heterogeneous nucleation and polymorphic selection of indomethacin. <i>CrystEngComm</i> , <b>2019</b> , 21, 2193-2202	3.3	5

54	On-Demand Manufacturing of Direct Compressible Tablets: Can Formulation Be Simplified?. <i>Pharmaceutical Research</i> , <b>2019</b> , 36, 167	4.5	5
53	Two-Stage Crystallizer Design for High Loading of Poorly Water-Soluble Pharmaceuticals in Porous Silica Matrices. <i>Crystals</i> , <b>2017</b> , 7, 131	2.3	5
52	Statistics of experiments on cluster formation and transport in a gravitational field. <i>Journal Physics D: Applied Physics</i> , <b>1993</b> , 26, B123-B127	3	5
51	Metastable state relaxation in a gravitational field. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1992</b> , 183, 549-562	3.3	5
50	Transport of gases in miscible polymer blends above and below the glass transition region. <i>AIChE Journal</i> , <b>1993</b> , 39, 1509-1518	3.6	5
49	Solvothermal Crystallization Kinetics and Control of Crystal Size Distribution of MOF-808 in a Continuous Flow Reactor. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 6529-6536	3.5	5
48	Purification of nitrophenols using complex-assisted crystallization. <i>CrystEngComm</i> , <b>2016</b> , 18, 7487-7493	3.3	5
47	SURMOF Induced Morphological Crystal Engineering of Substituted Benzamides. <i>Crystal Growth and Design</i> , <b>2018</b> , 18, 7048-7058	3.5	5
46	Monitoring and Advanced Control of Crystallization Processes <b>2019</b> , 313-345		4
45	Desorption of water vapor in hydrogen-bonded polymer blends. <i>Journal of Applied Polymer Science</i> , <b>1998</b> , 70, 39-45	2.9	4
44	Solutions and solution properties <b>2002</b> , 1-31		4
43	Theory of metastable state relaxation for non-critical binary systems with non-conserved order parameter. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1993</b> , 192, 85-106	3.3	4
42	Optimization of fuel composition in open-cycle magnetohydrodynamic power generation. <i>Journal of Energy</i> , <b>1982</b> , 6, 155-157		4
41	Impurity incorporation in solution crystallization: diagnosis, prevention, and control. <i>CrystEngComm</i> ,	3.3	4
40	Methods for Nano-Crystals Preparation. <i>NATO Science for Peace and Security Series A: Chemistry and Biology</i> , <b>2017</b> , 275-287	0.1	4
39	Mathematical modeling and experimental validation of continuous slug-flow tubular crystallization with ultrasonication-induced nucleation and spatially varying temperature. <i>Chemical Engineering Research and Design</i> , <b>2021</b> , 169, 275-287	5.5	4
38	Impact of Critical Material Attributes (CMAs)-Particle Shape on Miniature Pharmaceutical Unit Operations. <i>AAPS PharmSciTech</i> , <b>2021</b> , 22, 98	3.9	4
37	Concomitant cocrystallization on engineered surfaces. <i>CrystEngComm</i> , <b>2013</b> , 15, 7450	3.3	3

36	Complexation-Assisted Continuous Crystallization of Isomeric Systems with Nanofiltration Recycle. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 5506-5516	3.5	3
35	Relationship between solution shear viscosity and density at the saturation point. <i>Journal of Crystal Growth</i> , <b>1996</b> , 166, 261-265	1.6	3
34	Theory of metastable state relaxation in a gravitational field for non-critical binary systems with non-conserved order parameter. <i>Journal of Physics A</i> , <b>1993</b> , 26, 2709-2725		3
33	Parametrically driven microparticle in the presence of a stationary zero-mean stochastic source: Model for thermal equilibrium in the Paul trap. <i>Physical Review E</i> , <b>1994</b> , 50, 702-708	2.4	3
32	Fuel Development for Open-Loop Combustion-Driven MHD Power Generation. <i>Journal of Energy</i> , <b>1979</b> , 3, 120-122		3
31	Influence of Volume on the Nucleation of Model Organic Molecular Crystals through an Induction Time Approach. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 2932-2941	3.5	3
30	General Method for the Identification of Crystal Faces Using Raman Spectroscopy Combined with Machine Learning and Application to the Epitaxial Growth of Acetaminophen. <i>Langmuir</i> , <b>2018</b> , 34, 9836-9846	4	2
29	Solutions and Solution Properties <b>2019</b> , 1-31		2
28	The Influence of Impurities and Additives on Crystallization <b>2019</b> , 115-135		2
27	Molecular Modeling Applications in Crystallization <b>2019</b> , 136-171		2
26	Selection and Design of Industrial Crystallizers <b>2019</b> , 197-215		2
25	Diffusion of Lysozyme in Buffered Salt Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 10313-10319	3.9	2
24	Diffusivity, viscosity, and cluster formation in protein solutions. <i>Biotechnology and Bioprocess Engineering</i> , <b>1997</b> , 2, 64-67	3.1	2
23	Gravity induced formation of concentration gradients in supersaturated binary solutions. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1996</b> , 224, 503-532	3.3	2
22	Diffusion of benzene vapor in blends of poly(vinyl acetate) and poly(methyl acrylate). <i>Polymer Engineering and Science</i> , <b>1991</b> , 31, 1172-1175	2.3	2
21	Water vapor diffusion in polymer networks. <i>AIChE Journal</i> , <b>1992</b> , 38, 1481-1484	3.6	2
20	Calculation of Crystal Habit and Solvent-Accessible Areas of Sucrose and Adipic Acid Crystals. <i>ACS Symposium Series</i> , <b>1990</b> , 55-71	0.4	2
19	A crystal growth model with concentration dependent diffusion. <i>Journal of Crystal Growth</i> , <b>1984</b> , 67, 380-382	1.6	2

18	Nitric oxide gas absorption in a limestone packed column. <i>AIChE Journal</i> , <b>1981</b> , 27, 518-521	3.6	2
17	Nucleation in complex multi-component and multi-phase systems: general discussion. <i>Faraday Discussions</i> , <b>2015</b> , 179, 503-42	3.6	1
16	Crystallization in the Pharmaceutical Industry <b>2019</b> , 380-413		1
15	Crystallization of Proteins <b>2019</b> , 414-459		1
14	Thermodynamic and statistical studies of supersaturated ternary solutions. <i>Physical Review E</i> , <b>1999</b> , 60, 3211-8	2.4	1
13	Parameter estimation for analysis of vapor diffusion in polymers. <i>Polymer Engineering and Science</i> , <b>1994</b> , 34, 1250-1253	2.3	1
12	Diffusion of gases in polymer blends near the lower critical solution temperature. <i>AIChE Journal</i> , <b>1995</b> , 41, 166-170	3.6	1
11	Nucleation in non-critical binary systems. <i>Journal of Crystal Growth</i> , <b>1993</b> , 128, 139-143	1.6	1
10	GTRC process for removing inorganic impurities from spent hydrodesulfurization catalysts. <i>Mining, Metallurgy and Exploration</i> , <b>1987</b> , 4, 78-82	1.1	1
9	THE AGGLOMERATION AND AGING OF TEREPHTHALIC ACID PARTICLES IN LIQUID SOLUTION. <i>Particulate Science and Technology</i> , <b>1983</b> , 1, 409-417	2	1
8	Structure Formation Due to Non-Equilibrium Liquid-Liquid Phase Separation in Polypropylene Solutions <b>1993</b> , 209-223		1
7	End to End Continuous Manufacturing: Integration of Unit Operations <b>2017</b> , 447-483		0
6	Tunable protein crystal size distribution via continuous slug-flow crystallization with spatially varying temperature. <i>CrystEngComm</i> , <b>2021</b> , 23, 6495-6505	3.3	0
5	Structural effects on vapor diffusivity in rigid polymers. <i>Journal of Applied Polymer Science</i> , <b>1993</b> , 50, 271-275	2.9	
4	Vapor-phase growth forms and purification of 1,4-benzenedicarboxylic acid. <i>Journal of Crystal Growth</i> , <b>1986</b> , 74, 217-220	1.6	
3	Condensation of aluminum when used as a fuel additive in MHD power generation. <i>Journal of Energy</i> , <b>1980</b> , 4, 44-46		
2	Multicomponent, multiphase vapor-liquid equilibrium data from the method of intersecting isochores. <i>AIChE Journal</i> , <b>1976</b> , 22, 399-400	3.6	
1	Influence of Centrifugation on Cluster Formation and Nucleation <b>1997</b> , 189-196		



