

# Lian Yu

## List of Publications by Year in descending order

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125  
papers

8,362  
citations

71004

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53065

89  
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129  
all docs

129  
docs citations

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times ranked

5306  
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface Enrichment of Surfactants in Amorphous Drugs: An X-ray Photoelectron Spectroscopy Study. <i>Molecular Pharmaceutics</i> , 2022, 19, 654-660.	2.3	13
2	Surface diffusion of a glassy discotic organic semiconductor and the surface mobility gradient of molecular glasses. <i>Journal of Chemical Physics</i> , 2022, 156, 094710.	1.2	7
3	Structures of glasses created by multiple kinetic arrests. <i>Journal of Chemical Physics</i> , 2022, 156, 084504.	1.2	3
4	Surface Diffusion Is Controlled by Bulk Fragility across All Glass Types. <i>Physical Review Letters</i> , 2022, 128, 075501.	2.9	13
5	Compositional trends in surface enhanced diffusion in lead silicate glasses. <i>Computational Materials Science</i> , 2022, 206, 111304.	1.4	0
6	Polymorphic selectivity in crystal nucleation. <i>Journal of Chemical Physics</i> , 2022, 156, 144504.	1.2	17
7	Surfactants Accelerate Crystallization of Amorphous Nifedipine by Similar Enhancement of Nucleation and Growth Independent of Hydrophilic-Lipophilic Balance. <i>Molecular Pharmaceutics</i> , 2022, 19, 2343-2350.	2.3	11
8	Solvent-Mediated Polymorphic Transformations in Molten Polymers: The Account of Acetaminophen. <i>Molecular Pharmaceutics</i> , 2022, , .	2.3	1
9	Anisotropic Molecular Organization at a Liquid/Vapor Interface Promotes Crystal Nucleation with Polymorph Selection. <i>Journal of the American Chemical Society</i> , 2022, 144, 11638-11645.	6.6	18
10	Surface Mobility of Amorphous Indomethacin Containing Moisture and a Surfactant: A Concentration-Temperature Superposition Principle. <i>Molecular Pharmaceutics</i> , 2022, 19, 2962-2970.	2.3	2
11	Surface mobility in amorphous selenium and comparison with organic molecular glasses. <i>Journal of Chemical Physics</i> , 2021, 154, 074703.	1.2	8
12	Amorphous Drug-Polymer Salt with High Stability under Tropical Conditions and Fast Dissolution: The Case of Clofazimine and Poly(acrylic acid). <i>Molecular Pharmaceutics</i> , 2021, 18, 1364-1372.	2.3	21
13	Factors correlating to enhanced surface diffusion in metallic glasses. <i>Journal of Chemical Physics</i> , 2021, 154, 104502.	1.2	6
14	Using Deposition Rate and Substrate Temperature to Manipulate Liquid Crystal-Like Order in a Vapor-Deposited Hexagonal Columnar Glass. <i>Journal of Physical Chemistry B</i> , 2021, 125, 2761-2770.	1.2	17
15	Controlling the Columnar Order in a Discotic Liquid Crystal by Kinetic Arrest of Disc Tumbling. <i>Chemistry of Materials</i> , 2021, 33, 4757-4764.	3.2	13
16	Amorphous Drug-Polymer Salts. <i>Pharmaceutics</i> , 2021, 13, 1271.	2.0	12
17	Amorphous Drug-Polymer Salt with High Stability under Tropical Conditions and Fast Dissolution: The Challenging Case of Lumefantrine-PAA. <i>Journal of Pharmaceutical Sciences</i> , 2021, 110, 3670-3677.	1.6	11
18	Proliferous Polymorph Generator ROY in Its Liquid and Glass: Two Conformational Populations Mirroring the Crystalline-State Distribution. <i>Journal of Physical Chemistry B</i> , 2021, 125, 10304-10311.	1.2	7

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19	Structures of glass-forming liquids by x-ray scattering: Glycerol, xylitol, and D-sorbitol. Journal of Chemical Physics, 2021, 155, 244508.	1.2	4
20	Effect of Polymers on Crystallization in Glass-Forming Molecular Liquids: Equal Suppression of Nucleation and Growth and Master Curve for Prediction. Crystal Growth and Design, 2020, 20, 237-244.	1.4	23
21	A general method for cultivating single crystals from melt microdroplets. Chemical Communications, 2020, 56, 9950-9953.	2.2	41
22	Polymorphism of Piroxicam: New Polymorphs by Melt Crystallization and Crystal Structure Prediction. Crystal Growth and Design, 2020, 20, 7874-7881.	1.4	27
23	Rich polymorphism in nicotinamide revealed by melt crystallization and crystal structure prediction. Communications Chemistry, 2020, 3, .	2.0	29
24	The Twelfth Solved Structure of ROY: Single Crystals of Y04 Grown from Melt Microdroplets. Crystal Growth and Design, 2020, 20, 7093-7097.	1.4	43
25	A Mechanism for Reversible Solid-State Transitions Involving Nitro Torsion. Chemistry of Materials, 2020, 32, 7754-7765.	3.2	29
26	Atomic-Level Drug Substance and Polymer Interaction in Posaconazole Amorphous Solid Dispersion from Solid-State NMR. Molecular Pharmaceutics, 2020, 17, 2585-2598.	2.3	28
27	Molecular Mechanism of Crystalline-to-Amorphous Conversion of Pharmaceutical Solids from <sup>19</sup> F Magic Angle Spinning NMR. Journal of Physical Chemistry B, 2020, 124, 5271-5283.	1.2	25
28	Over What Length Scale Does an Inorganic Substrate Perturb the Structure of a Glassy Organic Semiconductor?. ACS Applied Materials & Interfaces, 2020, 12, 26717-26726.	4.0	22
29	Surface diffusion in glasses of rod-like molecules posaconazole and itraconazole: effect of interfacial molecular alignment and bulk penetration. Soft Matter, 2020, 16, 5062-5070.	1.2	33
30	Surface dynamics measurement on a gold based metallic glass. Applied Physics Letters, 2020, 116, .	1.5	9
31	Extreme Elasticity Anisotropy: Extreme Elasticity Anisotropy in Molecular Glasses (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Ove 7.8	7.8	10
32	Molecular Orientation for Vapor-Deposited Organic Glasses Follows Rate-Temperature Superposition: The Case of Posaconazole. Journal of Physical Chemistry B, 2020, 124, 2505-2513.	1.2	19
33	Organic glasses with tunable liquid-crystalline order through kinetic arrest of end-over-end rotation: the case of saperconazole. Soft Matter, 2020, 16, 2025-2030.	1.2	10
34	Rapid improvement in the macrolactins production of Bacillus sp. combining atmospheric room temperature plasma with the specific growth rate index. Journal of Bioscience and Bioengineering, 2020, 130, 48-53.	1.1	3
35	Extreme Elasticity Anisotropy in Molecular Glasses. Advanced Functional Materials, 2020, 30, 2001481.	7.8	12
36	Vapor deposition of a nonmesogen prepares highly structured organic glasses. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21421-21426.	3.3	30

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37	Accuracy and reproducibility in crystal structure prediction: the curious case of ROY. <i>CrystEngComm</i> , 2019, 21, 2080-2088.	1.3	55
38	Anisotropic Vapor-Deposited Glasses: Hybrid Organic Solids. <i>Accounts of Chemical Research</i> , 2019, 52, 407-414.	7.6	67
39	Polymer Nanocoating of Amorphous Drugs for Improving Stability, Dissolution, Powder Flow, and Tabletability: The Case of Chitosan-Coated Indomethacin. <i>Molecular Pharmaceutics</i> , 2019, 16, 1305-1311.	2.3	37
40	Solvent-polymer guest exchange in a carbamazepine inclusion complex: structure, kinetics and implication for guest selection. <i>CrystEngComm</i> , 2019, 21, 2164-2173.	1.3	5
41	Vapor-Deposited Glass Structure Determined by Deposition Rate“Substrate Temperature Superposition Principle. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 3536-3542.	2.1	33
42	Improving Stability and Dissolution of Amorphous Clofazimine by Polymer Nano-Coating. <i>Pharmaceutical Research</i> , 2019, 36, 67.	1.7	13
43	Inhibiting Surface Crystallization and Improving Dissolution of Amorphous Loratadine by Dextran Sulfate Nanocoating. <i>Journal of Pharmaceutical Sciences</i> , 2019, 108, 2391-2396.	1.6	15
44	Origin of Anisotropic Molecular Packing in Vapor-Deposited Alq3 Glasses. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 164-170.	2.1	49
45	Effect of molecular size and hydrogen bonding on three surface-facilitated processes in molecular glasses: Surface diffusion, surface crystal growth, and formation of stable glasses by vapor deposition. <i>Journal of Chemical Physics</i> , 2019, 150, 024502.	1.2	19
46	Fabrication and characterization of DDAB/PLA-alginate composite microcapsules as single-shot vaccine. <i>RSC Advances</i> , 2018, 8, 13612-13624.	1.7	14
47	Organic Glasses with Tunable Liquid-Crystalline Order. <i>Physical Review Letters</i> , 2018, 120, 055502.	2.9	38
48	Surface Enrichment and Depletion of the Active Ingredient in Spray Dried Amorphous Solid Dispersions. <i>Pharmaceutical Research</i> , 2018, 35, 38.	1.7	25
49	Trans“cis isomerization energies of azopyridines: a calorimetric and computational study. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 132, 463-469.	2.0	10
50	Gelatin Nano-coating for Inhibiting Surface Crystallization of Amorphous Drugs. <i>Pharmaceutical Research</i> , 2018, 35, 23.	1.7	18
51	Anisotropic organic glasses. <i>Current Opinion in Solid State and Materials Science</i> , 2018, 22, 49-57.	5.6	27
52	Polymorphism of griseofulvin: concomitant crystallization from the melt and a single crystal structure of a metastable polymorph with anomalously large thermal expansion. <i>Chemical Communications</i> , 2018, 54, 358-361.	2.2	58
53	Class Structure Controls Crystal Polymorph Selection in Vapor-Deposited Films of 4,4“Bis(“N“carbazolyl)-1,1“biphenyl. <i>Crystal Growth and Design</i> , 2018, 18, 5800-5807.	1.4	13
54	Crystal nucleation rates in glass-forming molecular liquids: D-sorbitol, D-arabitol, D-xylitol, and glycerol. <i>Journal of Chemical Physics</i> , 2018, 149, 054503.	1.2	43

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55	Cross-Nucleation between Polymorphs: Quantitative Modeling of Kinetics and Morphology. <i>Crystal Growth and Design</i> , 2018, 18, 3921-3926.	1.4	12
56	Tensile Fracture of Molecular Glasses Studied by Differential Scanning Calorimetry: Reduction of Heat Capacity by Lateral Constraint. <i>Journal of Physical Chemistry B</i> , 2017, 121, 444-449.	1.2	5
57	Effect of Low-Concentration Polymers on Crystal Growth in Molecular Glasses: A Controlling Role for Polymer Segmental Mobility Relative to Host Dynamics. <i>Journal of Physical Chemistry B</i> , 2017, 121, 1963-1971.	1.2	34
58	Highly Organized Smectic-like Packing in Vapor-Deposited Glasses of a Liquid Crystal. <i>Chemistry of Materials</i> , 2017, 29, 849-858.	3.2	30
59	Simultaneous determination of 13 carbohydrates using high-performance anion-exchange chromatography coupled with pulsed amperometric detection and mass spectrometry. <i>Journal of Separation Science</i> , 2017, 40, 1843-1854.	1.3	15
60	Nematic-like stable glasses without equilibrium liquid crystal phases. <i>Journal of Chemical Physics</i> , 2017, 146, 054503.	1.2	18
61	Cross-Nucleation between Concomitantly Crystallizing $\hat{\alpha}$ - and $\hat{\beta}$ -Phases in Polypivalolactone: Secondary Nucleation of One Polymorph on Another. <i>Crystal Growth and Design</i> , 2017, 17, 2639-2645.	1.4	20
62	Surface transport mechanisms in molecular glasses probed by the exposure of nano-particles. <i>Journal of Chemical Physics</i> , 2017, 146, 203324.	1.2	3
63	Vapor-Deposited Glasses with Long-Range Columnar Liquid Crystalline Order. <i>Chemistry of Materials</i> , 2017, 29, 9110-9119.	3.2	25
64	Fast Surface Diffusion and Crystallization of Amorphous Griseofulvin. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9463-9468.	1.2	51
65	Influence of Hydrogen Bonding on the Surface Diffusion of Molecular Glasses: Comparison of Three Triazines. <i>Journal of Physical Chemistry B</i> , 2017, 121, 7221-7227.	1.2	16
66	Polyamorphism of D-mannitol. <i>Journal of Chemical Physics</i> , 2017, 146, 244503.	1.2	29
67	Polymorphs of the antiviral drug ganciclovir. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017, 73, 1116-1120.	0.2	3
68	Pair distribution functions of amorphous organic thin films from synchrotron X-ray scattering in transmission mode. <i>IUCr</i> , 2017, 4, 555-559.	1.0	11
69	Surface diffusion and surface crystal growth of <i>trans</i> -naphthyl benzene glasses. <i>Journal of Chemical Physics</i> , 2016, 145, .	1.2	32
70	Tuning the Helical Structures of Wells' Dawson Polyoxometalate Based Hybrid Compounds by Using Isomeric Ligands. <i>Crystal Growth and Design</i> , 2016, 16, 3215-3223.	1.4	34
71	Hydrogen Bonding Slows Down Surface Diffusion of Molecular Glasses. <i>Journal of Physical Chemistry B</i> , 2016, 120, 8007-8015.	1.2	46
72	Surface Mobility of Amorphous <i>o</i> -Terphenyl: A Strong Inhibitory Effect of Low-Concentration Polystyrene. <i>Journal of Physical Chemistry B</i> , 2016, 120, 6842-6847.	1.2	7

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73	Surface mobility of molecular glasses and its importance in physical stability. <i>Advanced Drug Delivery Reviews</i> , 2016, 100, 3-9.	6.6	125
74	Surface Diffusion of Polymer Glasses. <i>Macromolecules</i> , 2016, 49, 731-735.	2.2	66
75	Design of simvastatin-loaded polymeric microbubbles as targeted ultrasound contrast agents for vascular imaging and drug delivery in the identification of atherosclerotic plaque. <i>New Journal of Chemistry</i> , 2016, 40, 1256-1262.	1.4	8
76	Vapor deposition of a smectic liquid crystal: highly anisotropic, homogeneous glasses with tunable molecular orientation. <i>Soft Matter</i> , 2016, 12, 2942-2947.	1.2	32
77	Fast Surface Crystallization of Molecular Glasses: Creation of Depletion Zones by Surface Diffusion and Crystallization Flux. <i>Journal of Physical Chemistry B</i> , 2015, 119, 3304-3311.	1.2	33
78	Fast Surface Diffusion of Amorphous <i>o</i> -Terphenyl and Its Competition with Viscous Flow in Surface Evolution. <i>Journal of Physical Chemistry B</i> , 2015, 119, 5071-5078.	1.2	77
79	Possible existence of two amorphous phases of <i>d</i> -mannitol related by a first-order transition. <i>Journal of Chemical Physics</i> , 2015, 142, 244504.	1.2	51
80	Fast Crystal Growth in <i>o</i> -Terphenyl Glasses: A Possible Role for Fracture and Surface Mobility. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10124-10130.	1.2	46
81	Molecular modeling of vapor-deposited polymer glasses. <i>Journal of Chemical Physics</i> , 2014, 140, 204504.	1.2	32
82	Co-crystallization with Nicotinamide in Two Conformations Lowers Energy but Expands Volume. <i>Journal of Pharmaceutical Sciences</i> , 2014, 103, 2896-2903.	1.6	9
83	Termination of Solid-State Crystal Growth in Molecular Glasses by Fluidity. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 1705-1710.	2.1	32
84	Fast Surface Crystal Growth on Molecular Glasses and Its Termination by the Onset of Fluidity. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7638-7646.	1.2	45
85	Effect of bulk aging on surface diffusion of glasses. <i>Journal of Chemical Physics</i> , 2014, 140, 054509.	1.2	22
86	Surface Self-Diffusion of Organic Glasses. <i>Journal of Physical Chemistry A</i> , 2013, 117, 13303-13309.	1.1	106
87	Low-Concentration Polymers Inhibit and Accelerate Crystal Growth in Organic Glasses in Correlation with Segmental Mobility. <i>Journal of Physical Chemistry B</i> , 2013, 117, 10334-10341.	1.2	37
88	Study of dynamics and crystallization kinetics of 5-methyl-2-[(2-nitrophenyl)amino]-3-thiophenecarbonitrile at ambient and elevated pressure. <i>Journal of Chemical Physics</i> , 2012, 136, 234509.	1.2	17
89	Fast Crystal Growth Induces Mobility and Tension in Supercooled <i>o</i> -Terphenyl. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2562-2567.	2.1	16
90	Formation Enthalpies and Polymorphs of Nicotinamide- <i>R</i> -Mandelic Acid Co-Crystals. <i>Crystal Growth and Design</i> , 2012, 12, 4090-4097.	1.4	25

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91	Polymorphism of Nifedipine: Crystal Structure and Reversible Transition of the Metastable $\hat{\mu}^2$ Polymorph. <i>Crystal Growth and Design</i> , 2012, 12, 2037-2043.	1.4	62
92	Does Crystal Density Control Fast Surface Crystal Growth in Glasses? A Study with Polymorphs. <i>Crystal Growth and Design</i> , 2011, 11, 3979-3984.	1.4	23
93	Evolution of glassy gratings with variable aspect ratios under surface diffusion. <i>Journal of Chemical Physics</i> , 2011, 134, 194704.	1.2	41
94	Anisotropic Structure and Transformation Kinetics of Vapor-Deposited Indomethacin Glasses. <i>Journal of Physical Chemistry B</i> , 2011, 115, 455-463.	1.2	85
95	Crystallization of Organic Glasses: Effects of Polymer Additives on Bulk and Surface Crystal Growth in Amorphous Nifedipine. <i>Pharmaceutical Research</i> , 2011, 28, 2458-2466.	1.7	71
96	Surface Self-Diffusion of an Organic Glass. <i>Physical Review Letters</i> , 2011, 106, 256103.	2.9	244
97	Glasses crystallize rapidly at free surfaces by growing crystals upward. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 5990-5995.	3.3	120
98	Polymorphism in Molecular Solids: An Extraordinary System of Red, Orange, and Yellow Crystals. <i>Accounts of Chemical Research</i> , 2010, 43, 1257-1266.	7.6	307
99	Solubilities of Crystalline Drugs in Polymers: An Improved Analytical Method and Comparison of Solubilities of Indomethacin and Nifedipine in PVP, PVP/VA, and PVAc. <i>Journal of Pharmaceutical Sciences</i> , 2010, 99, 4023-4031.	1.6	212
100	Generality of forming stable organic glasses by vapor deposition. <i>Chemical Physics Letters</i> , 2010, 499, 62-65.	1.2	60
101	Diffusion-controlled and "diffusionless" crystal growth near the glass transition temperature: Relation between liquid dynamics and growth kinetics of seven ROY polymorphs. <i>Journal of Chemical Physics</i> , 2009, 131, 074506.	1.2	43
102	Physical vapor deposition as a route to hidden amorphous states. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15165-15170.	3.3	82
103	Crystallization near Glass Transition: "Transition from Diffusion-Controlled to Diffusionless Crystal Growth Studied with Seven Polymorphs. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5594-5601.	1.2	116
104	Hiking down the Energy Landscape: "Progress Toward the Kauzmann Temperature via Vapor Deposition. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4934-4942.	1.2	192
105	Surface-Enhanced Crystallization of Amorphous Nifedipine. <i>Molecular Pharmaceutics</i> , 2008, 5, 921-926.	2.3	138
106	Crystal growth kinetics exhibit a fragility-dependent decoupling from viscosity. <i>Journal of Chemical Physics</i> , 2008, 128, 034709.	1.2	272
107	Inhibiting Surface Crystallization of Amorphous Indomethacin by Nanocoating. <i>Langmuir</i> , 2007, 23, 5148-5153.	1.6	137
108	Organic Glasses with Exceptional Thermodynamic and Kinetic Stability. <i>Science</i> , 2007, 315, 353-356.	6.0	647



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109	Cross-Nucleation between $\alpha$ -Mannitol Polymorphs in Seeded Crystallization. <i>Crystal Growth and Design</i> , 2007, 7, 2410-2414.	1.4	66
110	Survival of the fittest polymorph: how fast nucleater can lose to fast grower. <i>CrystEngComm</i> , 2007, 9, 847.	1.3	72
111	Influence of substrate temperature on the stability of glasses prepared by vapor deposition. <i>Journal of Chemical Physics</i> , 2007, 127, 154702.	1.2	165
112	Sudden Rise of Crystal Growth Rate of Nifedipine near $T_g$ without and with Polyvinylpyrrolidone. <i>Journal of Pharmaceutical Sciences</i> , 2007, 96, 1131-1138.	1.6	79
113	Effect of Molecular Chirality on Racemate Stability: $\alpha$ -Amino Acids with Nonpolar R Groups. <i>Journal of the American Chemical Society</i> , 2006, 128, 1873-1878.	6.6	35
114	Origin of Enhanced Crystal Growth Kinetics near $T_g$ Probed with Indomethacin Polymorphs. <i>Journal of Physical Chemistry B</i> , 2006, 110, 15694-15699.	1.2	89
115	Surface Crystallization of Indomethacin Below $T_g$ . <i>Pharmaceutical Research</i> , 2006, 23, 2350-2355.	1.7	182
116	Cross-Nucleation between ROY Polymorphs. <i>Journal of the American Chemical Society</i> , 2005, 127, 17439-17444.	6.6	200
117	Measuring Free-Energy Difference between Crystal Polymorphs through Eutectic Melting. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19915-19922.	1.2	52
118	New Polymorphs of ROY and New Record for Coexisting Polymorphs of Solved Structures. <i>Journal of the American Chemical Society</i> , 2005, 127, 9881-9885.	6.6	204
119	Color Changes Caused by Conformational Polymorphism: $\alpha$ Optical-Crystallography, Single-Crystal Spectroscopy, and Computational Chemistry. <i>Journal of Physical Chemistry A</i> , 2002, 106, 544-550.	1.1	88
120	Selective Nucleation and Discovery of Organic Polymorphs through Epitaxy with Single Crystal Substrates. <i>Journal of the American Chemical Society</i> , 2001, 123, 10830-10839.	6.6	238
121	Amorphous pharmaceutical solids: preparation, characterization and stabilization. <i>Advanced Drug Delivery Reviews</i> , 2001, 48, 27-42.	6.6	1,183
122	Thermochemistry and Conformational Polymorphism of a Hexamorphic Crystal System. <i>Journal of the American Chemical Society</i> , 2000, 122, 585-591.	6.6	277
123	Inferring thermodynamic stability relationship of polymorphs from melting data. <i>Journal of Pharmaceutical Sciences</i> , 1995, 84, 966-974.	1.6	241
124	Conformational and Color Polymorphism of 5-Methyl-2-[(2-nitrophenyl)amino]-3-thiophenecarbonitrile. <i>Journal of Pharmaceutical Sciences</i> , 1995, 84, 1385-1386.	1.6	57
125	Crystal Energy Landscape of Nifedipine by Experiment and Computer Prediction. <i>Crystal Growth and Design</i> , 0, , .	1.4	5