

Peter G Vekilov

List of Publications by Year in descending order

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145
papers

8,614
citations

36203

51
h-index

48187

88
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147
all docs

147
docs citations

147
times ranked

5866
citing authors

#	ARTICLE	IF	CITATIONS
1	Nucleation. <i>Crystal Growth and Design</i> , 2010, 10, 5007-5019.	1.4	570
2	The two-step mechanism of nucleation of crystals in solution. <i>Nanoscale</i> , 2010, 2, 2346.	2.8	498
3	Dense Liquid Precursor for the Nucleation of Ordered Solid Phases from Solution. <i>Crystal Growth and Design</i> , 2004, 4, 671-685.	1.4	428
4	Quasi-planar nucleus structure in apoferritin crystallization. <i>Nature</i> , 2000, 406, 494-497.	13.7	237
5	Are Nucleation Kinetics of Protein Crystals Similar to Those of Liquid Droplets?. <i>Journal of the American Chemical Society</i> , 2000, 122, 156-163.	6.6	215
6	Entropy and surface engineering in protein crystallization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2006, 62, 116-124.	2.5	207
7	Liquid-liquid separation in solutions of normal and sickle cell hemoglobin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 8479-8483.	3.3	185
8	Direct Determination of the Nucleation Rates of Protein Crystals. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10965-10971.	1.2	180
9	Interactions and Aggregation of Apoferritin Molecules in Solution: Effects of Added Electrolytes. <i>Biophysical Journal</i> , 2000, 78, 2060-2069.	0.2	142
10	Two types of amorphous protein particles facilitate crystal nucleation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 2154-2159.	3.3	141
11	Evidence for Non-DLVO Hydration Interactions in Solutions of the Protein Apoferritin. <i>Physical Review Letters</i> , 2000, 84, 1339-1342.	2.9	138
12	A Metastable Prerequisite for the Growth of Lumazine Synthase Crystals. <i>Journal of the American Chemical Society</i> , 2005, 127, 3433-3438.	6.6	136
13	What Determines the Rate of Growth of Crystals from Solution?. <i>Crystal Growth and Design</i> , 2007, 7, 2796-2810.	1.4	136
14	Mechanisms of hematin crystallization and inhibition by the antimalarial drug chloroquine. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4946-4951.	3.3	135
15	Two-step mechanism for the nucleation of crystals from solution. <i>Journal of Crystal Growth</i> , 2005, 275, 65-76.	0.7	123
16	3. Principles of Crystal Nucleation and Growth. , 2003, , 57-94.		121
17	Kinetics of two-step nucleation of crystals. <i>Journal of Chemical Physics</i> , 2005, 122, 244706.	1.2	118
18	Nucleation of ordered solid phases of proteins via a disordered high-density state: Phenomenological approach. <i>Journal of Chemical Physics</i> , 2005, 122, 174905.	1.2	118

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19	Molecular-level thermodynamic and kinetic parameters for the self-assembly of apoferritin molecules into crystals 1 Edited by W. Baumeister. <i>Journal of Molecular Biology</i> , 2000, 303, 667-678.	2.0	115
20	Diffusion-limited kinetics of the solution-solid phase transition of molecular substances. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 792-796.	3.3	112
21	Metastable Liquid Clusters in Super- and Undersaturated Protein Solutions. <i>Journal of Physical Chemistry B</i> , 2007, 111, 3106-3114.	1.2	112
22	Metastable Mesoscopic Clusters in Solutions of Sickle-Cell Hemoglobin. <i>Biophysical Journal</i> , 2007, 92, 267-277.	0.2	110
23	Two-Step Mechanism of Homogeneous Nucleation of Sickle Cell Hemoglobin Polymers. <i>Biophysical Journal</i> , 2007, 93, 902-913.	0.2	109
24	Nonlinear response of layer growth dynamics in the mixed kinetics-bulk-transport regime. <i>Physical Review E</i> , 1996, 54, 6650-6660.	0.8	105
25	Sickle-cell haemoglobin polymerization: is it the primary pathogenic event of sickle-cell anaemia?. <i>British Journal of Haematology</i> , 2007, 139, 173-184.	1.2	104
26	Molecular Mechanisms of Crystallization and Defect Formation. <i>Physical Review Letters</i> , 2000, 85, 353-356.	2.9	102
27	Thermodynamic Functions of Concentrated Protein Solutions from Phase Equilibria. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3921-3926.	1.2	100
28	Viscoelasticity in Homogeneous Protein Solutions. <i>Physical Review Letters</i> , 2009, 102, 058101.	2.9	97
29	Direct Observation of Nucleus Structure and Nucleation Pathways in Apoferritin Crystallization. <i>Journal of the American Chemical Society</i> , 2001, 123, 1080-1089.	6.6	96
30	Mechanisms of Homogeneous Nucleation of Polymers of Sickle Cell Anemia Hemoglobin in Deoxy State. <i>Journal of Molecular Biology</i> , 2004, 336, 43-59.	2.0	96
31	Origin of Anomalous Mesoscopic Phases in Protein Solutions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 7620-7630.	1.2	95
32	Antimalarials inhibit hemozoin crystallization by unique drug-surface site interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 7531-7536.	3.3	91
33	Dynamics of Layer Growth in Protein Crystallization. <i>Chemical Reviews</i> , 2000, 100, 2061-2090.	23.0	90
34	Spinodal for the solution-to-crystal phase transformation. <i>Journal of Chemical Physics</i> , 2005, 123, 014904.	1.2	88
35	Nucleation of protein crystals: critical nuclei, phase behavior, and control pathways. <i>Journal of Crystal Growth</i> , 2001, 232, 63-76.	0.7	86
36	The use of dynamic light scattering and Brownian microscopy to characterize protein aggregation. <i>Review of Scientific Instruments</i> , 2011, 82, 053106.	0.6	86

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37	Effects of Convective Solute and Impurity Transport in Protein Crystal Growth. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5208-5216.	1.2	81
38	Facet morphology response to nonuniformities in nutrient and impurity supply. I. Experiments and interpretation. <i>Journal of Crystal Growth</i> , 1995, 156, 267-278.	0.7	79
39	Recent advances in the understanding of two-step nucleation of protein crystals. <i>Faraday Discussions</i> , 2015, 179, 27-40.	1.6	79
40	Laser Michelson interferometry investigation of protein crystal growth. <i>Journal of Crystal Growth</i> , 1993, 130, 317-320.	0.7	76
41	Phase transitions of folded proteins. <i>Soft Matter</i> , 2010, 6, 5254.	1.2	72
42	High resolution interferometric technique for in-situ studies of crystal growth morphologies and kinetics. <i>Journal of Crystal Growth</i> , 1995, 148, 289-296.	0.7	67
43	Intermolecular Interactions, Nucleation, and Thermodynamics of Crystallization of Hemoglobin C. <i>Biophysical Journal</i> , 2002, 83, 1147-1156.	0.2	66
44	Solvent entropy contribution to the free energy of protein crystallization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1611-1616.	2.5	65
45	Liquid-Liquid Phase Separation in Hemoglobins: Distinct Aggregation Mechanisms of the $\hat{\text{I}}^{26}$ Mutants. <i>Biophysical Journal</i> , 2004, 86, 1702-1712.	0.2	62
46	Ostwald-Like Ripening of the Anomalous Mesoscopic Clusters in Protein Solutions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 10657-10664.	1.2	61
47	Do protein crystals nucleate within dense liquid clusters?. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 815-822.	0.4	59
48	Temperature-independent solubility and interactions between apoferritin monomers and dimers in solution. <i>Journal of Crystal Growth</i> , 2001, 232, 21-29.	0.7	58
49	Capillarity Effects on Crystallization Kinetics: $\hat{\text{A}}$ Insulin. <i>Journal of the American Chemical Society</i> , 2003, 125, 11684-11693.	6.6	58
50	Smooth transition from metastability to instability in phase separating protein solutions. <i>Journal of Chemical Physics</i> , 2004, 121, 7505-7512.	1.2	55
51	Nucleation of Protein Crystals under the Influence of Solution Shear Flow. <i>Annals of the New York Academy of Sciences</i> , 2006, 1077, 214-231.	1.8	55
52	Unsteady crystal growth due to step-bunch cascading. <i>Physical Review E</i> , 1997, 55, 3202-3214.	0.8	51
53	Thermodynamics of the Hydrophobicity in Crystallization of Insulin. <i>Biophysical Journal</i> , 2003, 85, 3935-3942.	0.2	51
54	The Kinetics of Nucleation and Growth of Sickle Cell Hemoglobin Fibers. <i>Journal of Molecular Biology</i> , 2007, 365, 425-439.	2.0	51

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55	Phase diagrams and kinetics of phase transitions in protein solutions. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 193101.	0.7	51
56	Multi-responsive hybrid particles: thermo-, pH-, photo-, and magneto-responsive magnetic hydrogel cores with gold nanorod optical triggers. <i>Nanoscale</i> , 2016, 8, 11851-11861.	2.8	51
57	Facet morphology response to nonuniformities in nutrient and impurity supply. II. Numerical simulations. <i>Journal of Crystal Growth</i> , 1996, 158, 552-559.	0.7	49
58	Anomalous Dense Liquid Condensates Host the Nucleation of Tumor Suppressor p53 Fibrils. <i>IScience</i> , 2019, 12, 342-355.	1.9	46
59	Elementary processes of protein crystal growth. <i>Progress in Crystal Growth and Characterization of Materials</i> , 1993, 26, 25-49.	1.8	45
60	The Physics of Protein Crystallization. <i>Solid State Physics</i> , 2003, 57, 1-147.	1.3	44
61	Nucleus in a droplet. <i>Nature Materials</i> , 2012, 11, 838-840.	13.3	44
62	Nucleation precursors in protein crystallization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 271-282.	0.4	43
63	Chiral and Achiral Mechanisms of Regulation of Calcite Crystallization. <i>Crystal Growth and Design</i> , 2009, 9, 127-135.	1.4	42
64	Molecular mechanisms of microheterogeneity-induced defect formation in ferritin crystallization. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 43, 343-352.	1.5	41
65	Crystallization of Transmembrane Proteins in cubo: Mechanisms of Crystal Growth and Defect Formation. <i>Journal of Molecular Biology</i> , 2004, 343, 1243-1254.	2.0	40
66	Enhancement and suppression of protein crystal nucleation due to electrically driven convection. <i>Journal of Crystal Growth</i> , 2005, 275, e1527-e1532.	0.7	40
67	Free Heme and the Polymerization of Sick Cell Hemoglobin. <i>Biophysical Journal</i> , 2010, 99, 1976-1985.	0.2	40
68	Lack of Dependence of the Sizes of the Mesoscopic Protein Clusters on Electrostatics. <i>Biophysical Journal</i> , 2015, 109, 1959-1968.	0.2	40
69	Lower Incorporation of Impurities in Ferritin Crystals by Suppression of Convection: Modeling Results. <i>Crystal Growth and Design</i> , 2001, 1, 73-79.	1.4	38
70	Evidence for the surface-diffusion mechanism of solution crystallization from molecular-level observations with ferritin. <i>Physical Review E</i> , 2002, 66, 021606.	0.8	38
71	A fast response mechanism for insulin storage in crystals may involve kink generation by association of 2D clusters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 1681-1686.	3.3	38
72	The free heme concentration in healthy human erythrocytes. <i>Blood Cells, Molecules, and Diseases</i> , 2015, 55, 402-409.	0.6	37

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73	Antagonistic cooperativity between crystal growth modifiers. <i>Nature</i> , 2020, 577, 497-501.	13.7	37
74	Molecular Mechanisms of Hematin Crystallization from Organic Solvent. <i>Crystal Growth and Design</i> , 2015, 15, 5535-5542.	1.4	34
75	Nucleation of protein crystals. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2016, 62, 136-154.	1.8	34
76	Differential dynamic microscopy of weakly scattering and polydisperse protein-rich clusters. <i>Physical Review E</i> , 2015, 92, 042712.	0.8	33
77	Nonlinear dynamics of layer growth and consequences for protein crystal perfection. <i>Journal of Crystal Growth</i> , 1999, 196, 261-275.	0.7	32
78	Hematin crystallization from aqueous and organic solvents. <i>Journal of Chemical Physics</i> , 2013, 139, 121911.	1.2	32
79	Solvent Entropy Effects in the Formation of Protein Solid Phases. <i>Methods in Enzymology</i> , 2003, 368, 84-105.	0.4	30
80	What Is the Molecular-Level Role of the Solution Components in Protein Crystallization?. <i>Crystal Growth and Design</i> , 2007, 7, 2239-2246.	1.4	30
81	Anisotropy of the Coulomb Interaction between Folded Proteins: Consequences for Mesoscopic Aggregation of Lysozyme. <i>Biophysical Journal</i> , 2012, 102, 1934-1943.	0.2	28
82	Mesoscopic protein-rich clusters host the nucleation of mutant p53 amyloid fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	28
83	Increased Stability in Crystal Growth Kinetics in Response to Bulk Transport Enhancement. <i>Physical Review Letters</i> , 1998, 80, 2654-2656.	2.9	27
84	On the methods of determination of homogeneous nucleation rates of protein crystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003, 215, 125-130.	2.3	27
85	Mesoscopic Solute-Rich Clusters in Olanzapine Solutions. <i>Crystal Growth and Design</i> , 2017, 17, 6668-6676.	1.4	26
86	Olanzapine crystal symmetry originates in preformed centrosymmetric solute dimers. <i>Nature Chemistry</i> , 2020, 12, 914-920.	6.6	26
87	Crystallization Mechanisms of Hemoglobin C in the R State. <i>Biophysical Journal</i> , 2004, 87, 2621-2629.	0.2	25
88	Nonclassical Nucleation. <i>ACS Symposium Series</i> , 2020, , 19-46.	0.5	24
89	A second mechanism employed by artemisinins to suppress <i>Plasmodium falciparum</i> hinges on inhibition of hematin crystallization. <i>Journal of Biological Chemistry</i> , 2021, 296, 100123.	1.6	24
90	Miniaturized scintillation technique for protein solubility determinations. <i>Review of Scientific Instruments</i> , 1999, 70, 2845-2849.	0.6	23

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91	Dense liquid droplets as a step source for the crystallization of lumazine synthase. <i>Journal of Crystal Growth</i> , 2005, 275, e1409-e1416.	0.7	22
92	Probing the Twisted Structure of Sickle Hemoglobin Fibers via Particle Simulations. <i>Biophysical Journal</i> , 2016, 110, 2085-2093.	0.2	22
93	Stable Equidistant Step Trains during Crystallization of Insulin. <i>Physical Review Letters</i> , 2003, 90, 225503.	2.9	20
94	Early Onset of Kinetic Roughening due to a Finite Step Width in Hematin Crystallization. <i>Physical Review Letters</i> , 2017, 119, 198101.	2.9	20
95	Growth of Large Hematin Crystals in Biomimetic Solutions. <i>Crystal Growth and Design</i> , 2014, 14, 2123-2127.	1.4	19
96	Polymorphism of Lysozyme Condensates. <i>Journal of Physical Chemistry B</i> , 2017, 121, 9091-9101.	1.2	19
97	Multiple extrema in the intermolecular potential and the phase diagram of protein solutions. <i>Physical Review E</i> , 2006, 73, 061917.	0.8	18
98	Lipid or aqueous medium for hematin crystallization?. <i>CrystEngComm</i> , 2015, 17, 7790-7800.	1.3	18
99	Protein Conformational Flexibility Enables the Formation of Dense Liquid Clusters: Tests Using Solution Shear. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 2339-2345.	2.1	18
100	Quantitative prediction of erythrocyte sickling for the development of advanced sickle cell therapies. <i>Science Advances</i> , 2019, 5, eaax3905.	4.7	18
101	Shear flow suppresses the volume of the nucleation precursor clusters in lysozyme solutions. <i>Journal of Crystal Growth</i> , 2017, 468, 493-501.	0.7	16
102	Steady, Symmetric, and Reversible Growth and Dissolution of Individual Amyloid- β Fibrils. <i>ACS Chemical Neuroscience</i> , 2019, 10, 2967-2976.	1.7	16
103	Grown in a crystal. <i>Nature Nanotechnology</i> , 2011, 6, 82-83.	15.6	15
104	Control of the nucleation of sickle cell hemoglobin polymers by free hematin. <i>Faraday Discussions</i> , 2012, 159, 87.	1.6	15
105	Finite-amplitude instability in growth step trains with overlapping step supply fields. <i>Physical Review E</i> , 1999, 59, 3155-3164.	0.8	14
106	Differential pathways in oxy and deoxy HbC aggregation/crystallization. <i>Proteins: Structure, Function and Bioinformatics</i> , 2001, 42, 99-107.	1.5	13
107	Dissipating step bunches during crystallization under transport control. <i>Physical Review E</i> , 2003, 67, 031606.	0.8	13
108	Interactions of Hemin with Model Erythrocyte Membranes. <i>Journal of Physical Chemistry B</i> , 2010, 114, 4529-4535.	1.2	13

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109	Does Solution Viscosity Scale the Rate of Aggregation of Folded Proteins?. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 1258-1263.	2.1	13
110	Real time, in-situ, monitoring of apoferritin crystallization and defect formation with molecular resolution. <i>Journal of Crystal Growth</i> , 2001, 232, 188-194.	0.7	12
111	Differential phase-shifting interferometry for in situ surface characterization during solution growth of crystals. <i>Review of Scientific Instruments</i> , 2002, 73, 3540-3545.	0.6	12
112	Metastable Mesoscopic Phases in Concentrated Protein Solutions. <i>Annals of the New York Academy of Sciences</i> , 2009, 1161, 377-386.	1.8	12
113	Characterization of the diffusive dynamics of particles with time-dependent asymmetric microscopy intensity profiles. <i>Soft Matter</i> , 2016, 12, 6926-6936.	1.2	12
114	Frustrated peptide chains at the fibril tip control the kinetics of growth of amyloid- β fibrils. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	12
115	Determination of the Transition-State Entropy for Aggregation Suggests How the Growth of Sickle Cell Hemoglobin Polymers can be Slowed. <i>Journal of Molecular Biology</i> , 2008, 377, 882-888.	2.0	11
116	Deconstructing Quinoline- β -Class Antimalarials to Identify Fundamental Physicochemical Properties of β -Hematin Crystal Growth Inhibitors. <i>Chemistry - A European Journal</i> , 2017, 23, 13638-13647.	1.7	11
117	Differential dynamic microscopy of bidisperse colloidal suspensions. <i>Npj Microgravity</i> , 2017, 3, 21.	1.9	11
118	Free heme in micromolar amounts enhances the attraction between sickle cell hemoglobin molecules. <i>Biopolymers</i> , 2009, 91, 1108-1116.	1.2	10
119	Nucleation of protein condensed phases. <i>Reviews in Chemical Engineering</i> , 2011, 27, 1-13.	2.3	10
120	Two-Step Crystal Nucleation Is Selected Because of a Lower Surface Free Energy Barrier. <i>Crystal Growth and Design</i> , 2021, 21, 5394-5402.	1.4	10
121	Shape change in crystallization of biological macromolecules. <i>MRS Bulletin</i> , 2016, 41, 375-380.	1.7	9
122	Phase Separation and Crystallization of Hemoglobin C in Transgenic Mouse and Human Erythrocytes. <i>Biophysical Journal</i> , 2008, 95, 4025-4033.	0.2	7
123	Nucleation and Growth Mechanisms of Protein Crystals. , 2015, , 795-871.		7
124	Biomimetic Assay for Hematin Crystallization Inhibitors: A New Platform To Screen Antimalarial Drugs. <i>Crystal Growth and Design</i> , 2017, 17, 197-206.	1.4	7
125	Attraction between Permanent Dipoles and London Dispersion Forces Dominate the Thermodynamics of Organic Crystallization. <i>Crystal Growth and Design</i> , 2020, 20, 7429-7438.	1.4	7
126	Spatiotemporal Step Patterns during Crystal Growth in a Transport-Controlled System. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11800-11804.	1.2	6

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127	Kinetics and Mechanisms of Protein Crystallization at the Molecular Level. , 2005, 300, 015-052.		6
128	Nucleation of Crystals in Solution. , 2010, , .		6
129	Thermodynamic mechanism of free heme action on sickle cell hemoglobin polymerization. AICHE Journal, 2015, 61, 2861-2870.	1.8	6
130	Structuring of Organic Solvents at Solid Interfaces and Ramifications for Antimalarial Adsorption on Î²-Hematin Crystals. ACS Applied Materials & Interfaces, 2018, 10, 29288-29298.	4.0	6
131	Molecular Mechanisms of Defect Formation. Methods in Enzymology, 2003, 368, 170-188.	0.4	5
132	Incorporation at Kinks: Kink Density and Activation Barriers. AIP Conference Proceedings, 2007, , .	0.3	5
133	How to Identify the Crystal Growth Unit. Israel Journal of Chemistry, 2021, 61, 818-827.	1.0	5
134	Dual Mode of Action of Organic Crystal Growth Inhibitors. Crystal Growth and Design, 2021, 21, 7053-7064.	1.4	5
135	Localized Generation of Attoliter Protein Solution Droplets by Electrofocused Liquid-Liquid Separation. Journal of Physical Chemistry B, 2009, 113, 7340-7346.	1.2	4
136	Nucleation and Crystal Growth of Hemoglobins: The Case of HbC. , 2003, 82, 155-176.		3
137	The Ambiguous Functions of the Precursors That Enable Nonclassical Modes of Olanzapine Nucleation and Growth. Crystals, 2021, 11, 738.	1.0	3
138	Chemical engineers and the fundamental understanding of human disease. AICHE Journal, 2008, 54, 2508-2515.	1.8	2
139	Crystallization of Proteins. , 2019, , 414-459.		2
140	Solvent Structure and Dynamics near the Surfaces of Î²-Hematin Crystals. Journal of Physical Chemistry B, 2021, 125, 11264-11274.	1.2	2
141	Precrystallization solute assemblies and crystal symmetry. Faraday Discussions, 2022, 235, 307-321.	1.6	2
142	Spatio-Temporal Patterns in Ferritin Crystal Growth. Materials Research Society Symposia Proceedings, 2002, 724, N7.18.1.	0.1	0
143	Bonding of SU-8 to glass for gastight picoliter reactors allowing in situ optical observation. Journal of Micromechanics and Microengineering, 2013, 23, 105003.	1.5	0
144	Frontispiece: Deconstructing Quinoline-Class Antimalarials to Identify Fundamental Physicochemical Properties of Beta-Hematin Crystal Growth Inhibitors. Chemistry - A European Journal, 2017, 23, .	1.7	0

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145	Formation of Protein Condensed Phases: Nucleation Mechanisms. Protein and Peptide Letters, 2012, , .	0.4	0