

# Peter G Vekilov

## List of Publications by Year in Descending Order

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

140  
papers

7,195  
citations

49  
h-index

81  
g-index

147  
ext. papers

7,946  
ext. citations

5.8  
avg, IF

6.54  
L-index

#	Paper	IF	Citations
140	Dual Mode of Action of Organic Crystal Growth Inhibitors. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 7053-7064	3.5	0
139	Solvent Structure and Dynamics near the Surfaces of Hematin Crystals. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 11264-11274	3.4	0
138	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> , <b>2021</b> , 118,	11.5	9
137	The Ambiguous Functions of the Precursors That Enable Nonclassical Modes of Olanzapine Nucleation and Growth. <i>Crystals</i> , <b>2021</b> , 11, 738	2.3	1
136	Two-Step Crystal Nucleation Is Selected Because of a Lower Surface Free Energy Barrier. <i>Crystal Growth and Design</i> , <b>2021</b> , 21, 5394-5402	3.5	1
135	A second mechanism employed by artemisinins to suppress Plasmodium falciparum hinges on inhibition of hematin crystallization. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100123	5.4	7
134	Antagonistic cooperativity between crystal growth modifiers. <i>Nature</i> , <b>2020</b> , 577, 497-501	50.4	17
133	Nonclassical Nucleation. <i>ACS Symposium Series</i> , <b>2020</b> , 19-46	0.4	13
132	Olanzapine crystal symmetry originates in preformed centrosymmetric solute dimers. <i>Nature Chemistry</i> , <b>2020</b> , 12, 914-920	17.6	12
131	Attraction between Permanent Dipoles and London Dispersion Forces Dominate the Thermodynamics of Organic Crystallization. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 7429-7438	3.5	2
130	Steady, Symmetric, and Reversible Growth and Dissolution of Individual Amyloid Fibrils. <i>ACS Chemical Neuroscience</i> , <b>2019</b> , 10, 2967-2976	5.7	10
129	Anomalous Dense Liquid Condensates Host the Nucleation of Tumor Suppressor p53 Fibrils. <i>iScience</i> , <b>2019</b> , 12, 342-355	6.1	29
128	Quantitative prediction of erythrocyte sickling for the development of advanced sickle cell therapies. <i>Science Advances</i> , <b>2019</b> , 5, eaax3905	14.3	11
127	Crystallization of Proteins <b>2019</b> , 414-459		1
126	Structuring of Organic Solvents at Solid Interfaces and Ramifications for Antimalarial Adsorption on Hematin Crystals. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29288-29298	9.5	5
125	Two types of amorphous protein particles facilitate crystal nucleation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 2154-2159	11.5	100
124	Antimalarials inhibit hematin crystallization by unique drug-surface site interactions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 7531-7536	11.5	56

123	Shear flow suppresses the volume of the nucleation precursor clusters in lysozyme solutions. <i>Journal of Crystal Growth</i> , <b>2017</b> , 468, 493-501	1.6	13
122	Mesoscopic Solute-Rich Clusters in Olanzapine Solutions. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 6668-6676	5.5	16
121	Deconstructing Quinoline-Class Antimalarials to Identify Fundamental Physicochemical Properties of Beta-Hematin Crystal Growth Inhibitors. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 13638-13647	4.8	8
120	Differential dynamic microscopy of bidisperse colloidal suspensions. <i>Npj Microgravity</i> , <b>2017</b> , 3, 21	5.3	8
119	Polymorphism of Lysozyme Condensates. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 9091-9101	3.4	15
118	Early Onset of Kinetic Roughening due to a Finite Step Width in Hematin Crystallization. <i>Physical Review Letters</i> , <b>2017</b> , 119, 198101	7.4	10
117	Biomimetic Assay for Hematin Crystallization Inhibitors: A New Platform To Screen Antimalarial Drugs. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 197-206	3.5	7
116	Nucleation of protein crystals. <i>Progress in Crystal Growth and Characterization of Materials</i> , <b>2016</b> , 62, 136-154	3.5	26
115	Protein Conformational Flexibility Enables the Formation of Dense Liquid Clusters: Tests Using Solution Shear. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 2339-45	6.4	14
114	Multi-responsive hybrid particles: thermo-, pH-, photo-, and magneto-responsive magnetic hydrogel cores with gold nanorod optical triggers. <i>Nanoscale</i> , <b>2016</b> , 8, 11851-61	7.7	42
113	Probing the Twisted Structure of Sickle Hemoglobin Fibers via Particle Simulations. <i>Biophysical Journal</i> , <b>2016</b> , 110, 2085-93	2.9	18
112	Shape change in crystallization of biological macromolecules. <i>MRS Bulletin</i> , <b>2016</b> , 41, 375-380	3.2	5
111	Characterization of the diffusive dynamics of particles with time-dependent asymmetric microscopy intensity profiles. <i>Soft Matter</i> , <b>2016</b> , 12, 6926-36	3.6	9
110	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> , <b>2015</b> , 112, 4946-51	11.5	93
109	Thermodynamic mechanism of free heme action on sickle cell hemoglobin polymerization. <i>AIChE Journal</i> , <b>2015</b> , 61, 2861-2870	3.6	6
108	Molecular Mechanisms of Hematin Crystallization from Organic Solvent. <i>Crystal Growth and Design</i> , <b>2015</b> , 15, 5535-5542	3.5	24
107	The free heme concentration in healthy human erythrocytes. <i>Blood Cells, Molecules, and Diseases</i> , <b>2015</b> , 55, 402-9	2.1	22
106	Lipid or aqueous medium for hematin crystallization?. <i>CrystEngComm</i> , <b>2015</b> , 17, 7790-7800	3.3	11

105	Nucleation and Growth Mechanisms of Protein Crystals <b>2015</b> , 795-871		6
104	Differential dynamic microscopy of weakly scattering and polydisperse protein-rich clusters. <i>Physical Review E</i> , <b>2015</b> , 92, 042712	2.4	23
103	Lack of Dependence of the Sizes of the Mesoscopic Protein Clusters on Electrostatics. <i>Biophysical Journal</i> , <b>2015</b> , 109, 1959-68	2.9	33
102	Do protein crystals nucleate within dense liquid clusters?. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2015</b> , 71, 815-22	1.1	44
101	Recent advances in the understanding of two-step nucleation of protein crystals. <i>Faraday Discussions</i> , <b>2015</b> , 179, 27-40	3.6	68
100	Growth of Large Hematin Crystals in Biomimetic Solutions. <i>Crystal Growth and Design</i> , <b>2014</b> , 14, 2123-2137	3.5	14
99	Nucleation precursors in protein crystallization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , <b>2014</b> , 70, 271-82	1.1	30
98	Hematin crystallization from aqueous and organic solvents. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 121911	3.9	22
97	Bonding of SU-8 to glass for gastight picoliter reactors allowing in situ optical observation. <i>Journal of Micromechanics and Microengineering</i> , <b>2013</b> , 23, 105003	2	
96	Control of the nucleation of sickle cell hemoglobin polymers by free hematin. <i>Faraday Discussions</i> , <b>2012</b> , 159, 87	3.6	15
95	Does Solution Viscosity Scale the Rate of Aggregation of Folded Proteins?. <i>Journal of Physical Chemistry Letters</i> , <b>2012</b> , 3, 1258-63	6.4	12
94	Ostwald-like ripening of the anomalous mesoscopic clusters in protein solutions. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 10657-64	3.4	49
93	Phase diagrams and kinetics of phase transitions in protein solutions. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 193101	1.8	41
92	Anisotropy of the Coulomb interaction between folded proteins: consequences for mesoscopic aggregation of lysozyme. <i>Biophysical Journal</i> , <b>2012</b> , 102, 1934-43	2.9	27
91	The use of dynamic light scattering and brownian microscopy to characterize protein aggregation. <i>Review of Scientific Instruments</i> , <b>2011</b> , 82, 053106	1.7	68
90	Nucleation of protein condensed phases. <i>Reviews in Chemical Engineering</i> , <b>2011</b> , 27, 1-13	5	9
89	Nucleation of Crystals in Solution <b>2010</b> ,		6
88	Free heme and the polymerization of sickle cell hemoglobin. <i>Biophysical Journal</i> , <b>2010</b> , 99, 1976-85	2.9	30

87	Origin of anomalous mesoscopic phases in protein solutions. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 7620-30	3.4	87
86	Interactions of hemin with model erythrocyte membranes. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 4529-35	3.4	9
85	The two-step mechanism of nucleation of crystals in solution. <i>Nanoscale</i> , <b>2010</b> , 2, 2346-57	7.7	374
84	Phase transitions of folded proteins. <i>Soft Matter</i> , <b>2010</b> , 6, 5254	3.6	62
83	Nucleation. <i>Crystal Growth and Design</i> , <b>2010</b> , 10, 5007-5019	3.5	478
82	Viscoelasticity in homogeneous protein solutions. <i>Physical Review Letters</i> , <b>2009</b> , 102, 058101	7.4	88
81	Free heme in micromolar amounts enhances the attraction between sickle cell hemoglobin molecules. <i>Biopolymers</i> , <b>2009</b> , 91, 1108-16	2.2	10
80	Metastable mesoscopic phases in concentrated protein solutions. <i>Annals of the New York Academy of Sciences</i> , <b>2009</b> , 1161, 377-86	6.5	12
79	Localized generation of attoliter protein solution droplets by electrofocused liquid-liquid separation. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 7340-6	3.4	3
78	Chiral and Achiral Mechanisms of Regulation of Calcite Crystallization. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 127-135	3.5	35
77	Phase separation and crystallization of hemoglobin C in transgenic mouse and human erythrocytes. <i>Biophysical Journal</i> , <b>2008</b> , 95, 4025-33	2.9	4
76	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> , <b>2008</b> , 377, 882-8	6.5	9
75	Chemical engineers and the fundamental understanding of human disease. <i>AIChE Journal</i> , <b>2008</b> , 54, 2508-2515	3.2	152
74	What Is the Molecular-Level Role of the Solution Components in Protein Crystallization?. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 2239-2246	3.5	28
73	Metastable mesoscopic clusters in solutions of sickle-cell hemoglobin. <i>Biophysical Journal</i> , <b>2007</b> , 92, 267-273	3.7	103
72	Two-step mechanism of homogeneous nucleation of sickle cell hemoglobin polymers. <i>Biophysical Journal</i> , <b>2007</b> , 93, 902-13	2.9	86
71	Metastable liquid clusters in super- and undersaturated protein solutions. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 3106-14	3.4	103
70	Incorporation at Kinks: Kink Density and Activation Barriers. <i>AIP Conference Proceedings</i> , <b>2007</b> ,	0	4

69	Sickle-cell haemoglobin polymerization: is it the primary pathogenic event of sickle-cell anaemia?. <i>British Journal of Haematology</i> , <b>2007</b> , 139, 173-84	4.5	74
68	What Determines the Rate of Growth of Crystals from Solution?. <i>Crystal Growth and Design</i> , <b>2007</b> , 7, 2796-2810	3.5	116
67	The kinetics of nucleation and growth of sickle cell hemoglobin fibers. <i>Journal of Molecular Biology</i> , <b>2007</b> , 365, 425-39	6.5	47
66	Multiple extrema in the intermolecular potential and the phase diagram of protein solutions. <i>Physical Review E</i> , <b>2006</b> , 73, 061917	2.4	18
65	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> , <b>2006</b> , 103, 1681-6	11.5	34
64	Entropy and surface engineering in protein crystallization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2006</b> , 62, 116-24		185
63	Nucleation of protein crystals under the influence of solution shear flow. <i>Annals of the New York Academy of Sciences</i> , <b>2006</b> , 1077, 214-31	6.5	48
62	Nucleation of ordered solid phases of proteins via a disordered high-density state: phenomenological approach. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 174905	3.9	102
61	A metastable prerequisite for the growth of lumazine synthase crystals. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 3433-8	16.4	126
60	Kinetics and mechanisms of protein crystallization at the molecular level. <i>Methods in Molecular Biology</i> , <b>2005</b> , 300, 15-52	1.4	4
59	Two-step mechanism for the nucleation of crystals from solution. <i>Journal of Crystal Growth</i> , <b>2005</b> , 275, 65-76	1.6	104
58	Enhancement and suppression of protein crystal nucleation due to electrically driven convection. <i>Journal of Crystal Growth</i> , <b>2005</b> , 275, e1527-e1532	1.6	38
57	Dense liquid droplets as a step source for the crystallization of lumazine synthase. <i>Journal of Crystal Growth</i> , <b>2005</b> , 275, e1409-e1416	1.6	19
56	Spinodal for the solution-to-crystal phase transformation. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 014904	3.9	81
55	Kinetics of two-step nucleation of crystals. <i>Journal of Chemical Physics</i> , <b>2005</b> , 122, 244706	3.9	103
54	Smooth transition from metastability to instability in phase separating protein solutions. <i>Journal of Chemical Physics</i> , <b>2004</b> , 121, 7505-12	3.9	49
53	Dense Liquid Precursor for the Nucleation of Ordered Solid Phases from Solution. <i>Crystal Growth and Design</i> , <b>2004</b> , 4, 671-685	3.5	368
52	Crystallization mechanisms of hemoglobin C in the R state. <i>Biophysical Journal</i> , <b>2004</b> , 87, 2621-9	2.9	20

51	Mechanisms of homogeneous nucleation of polymers of sickle cell anemia hemoglobin in deoxy state. <i>Journal of Molecular Biology</i> , <b>2004</b> , 336, 43-59	6.5	83
50	Crystallization of transmembrane proteins in cubo: mechanisms of crystal growth and defect formation. <i>Journal of Molecular Biology</i> , <b>2004</b> , 343, 1243-54	6.5	34
49	Liquid-liquid phase separation in hemoglobins: distinct aggregation mechanisms of the beta6 mutants. <i>Biophysical Journal</i> , <b>2004</b> , 86, 1702-12	2.9	56
48	Solvent entropy effects in the formation of protein solid phases. <i>Methods in Enzymology</i> , <b>2003</b> , 368, 84-105	1.7	27
47	Molecular mechanisms of defect formation. <i>Methods in Enzymology</i> , <b>2003</b> , 368, 170-88	1.7	5
46	3. Principles of Crystal Nucleation and Growth <b>2003</b> , 57-94		111
45	On the methods of determination of homogeneous nucleation rates of protein crystals. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2003</b> , 215, 125-130	5.1	23
44	Thermodynamic Functions of Concentrated Protein Solutions from Phase Equilibria. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3921-3926	3.4	88
43	Stable equidistant step trains during crystallization of insulin. <i>Physical Review Letters</i> , <b>2003</b> , 90, 225503	7.4	16
42	Capillarity effects on crystallization kinetics: insulin. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 11684-93	16.4	53
41	The Physics of Protein Crystallization. <i>Solid State Physics</i> , <b>2003</b> , 57, 1-147	2	34
40	Thermodynamics of the hydrophobicity in crystallization of insulin. <i>Biophysical Journal</i> , <b>2003</b> , 85, 3935-42.9	42.9	45
39	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> , <b>2003</b> , 100, 792-6	11.5	98
38	Nucleation and crystal growth of hemoglobins. The case of HbC. <i>Methods in Molecular Medicine</i> , <b>2003</b> , 82, 155-76		2
37	Dissipating step bunches during crystallization under transport control. <i>Physical Review E</i> , <b>2003</b> , 67, 031606	6.6	11
36	Solvent entropy contribution to the free energy of protein crystallization. <i>Acta Crystallographica Section D: Biological Crystallography</i> , <b>2002</b> , 58, 1611-6		62
35	Evidence for the surface-diffusion mechanism of solution crystallization from molecular-level observations with ferritin. <i>Physical Review E</i> , <b>2002</b> , 66, 021606	2.4	30
34	Differential phase-shifting interferometry for in situ surface characterization during solution growth of crystals. <i>Review of Scientific Instruments</i> , <b>2002</b> , 73, 3540-3545	1.7	11

33	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> , <b>2002</b> , 99, 8479-83	11.5	164
32	Spatiotemporal Step Patterns during Crystal Growth in a Transport-Controlled System. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 11800-11804	3.4	5
31	Intermolecular interactions, nucleation, and thermodynamics of crystallization of hemoglobin C. <i>Biophysical Journal</i> , <b>2002</b> , 83, 1147-56	2.9	59
30	Spatio-Temporal Patterns in Ferritin Crystal Growth. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 724, N7.18.1		
29	Molecular mechanisms of microheterogeneity-induced defect formation in ferritin crystallization. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2001</b> , 43, 343-352	4.2	35
28	Differential pathways in oxy and deoxy HbC aggregation/crystallization. <i>Proteins: Structure, Function and Bioinformatics</i> , <b>2001</b> , 42, 99-107	4.2	12
27	Nucleation of protein crystals: critical nuclei, phase behavior, and control pathways. <i>Journal of Crystal Growth</i> , <b>2001</b> , 232, 63-76	1.6	79
26	Temperature-independent solubility and interactions between apoferritin monomers and dimers in solution. <i>Journal of Crystal Growth</i> , <b>2001</b> , 232, 21-29	1.6	53
25	Real time, in-situ, monitoring of apoferritin crystallization and defect formation with molecular resolution. <i>Journal of Crystal Growth</i> , <b>2001</b> , 232, 188-194	1.6	9
24	Direct observation of nucleus structure and nucleation pathways in apoferritin crystallization. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 1080-9	16.4	81
23	Lower Incorporation of Impurities in Ferritin Crystals by Suppression of Convection: Modeling Results. <i>Crystal Growth and Design</i> , <b>2001</b> , 1, 73-79	3.5	35
22	Quasi-planar nucleus structure in apoferritin crystallization. <i>Nature</i> , <b>2000</b> , 406, 494-7	50.4	201
21	Molecular mechanisms of crystallization and defect formation. <i>Physical Review Letters</i> , <b>2000</b> , 85, 353-6	7.4	86
20	Evidence for non-DLVO hydration interactions in solutions of the protein apoferritin. <i>Physical Review Letters</i> , <b>2000</b> , 84, 1339-42	7.4	132
19	Molecular-level thermodynamic and kinetic parameters for the self-assembly of apoferritin molecules into crystals. <i>Journal of Molecular Biology</i> , <b>2000</b> , 303, 667-78	6.5	104
18	Interactions and aggregation of apoferritin molecules in solution: effects of added electrolytes. <i>Biophysical Journal</i> , <b>2000</b> , 78, 2060-9	2.9	125
17	Dynamics of Layer Growth in Protein Crystallization. <i>Chemical Reviews</i> , <b>2000</b> , 100, 2061-2090	68.1	85
16	Are Nucleation Kinetics of Protein Crystals Similar to Those of Liquid Droplets?. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 156-163	16.4	193



15	Miniaturized scintillation technique for protein solubility determinations. <i>Review of Scientific Instruments</i> , <b>1999</b> , 70, 2845-2849	1.7	18
14	Finite-amplitude instability in growth step trains with overlapping step supply fields. <i>Physical Review E</i> , <b>1999</b> , 59, 3155-3164	2.4	12
13	Nonlinear dynamics of layer growth and consequences for protein crystal perfection. <i>Journal of Crystal Growth</i> , <b>1999</b> , 196, 261-275	1.6	30
12	Direct Determination of the Nucleation Rates of Protein Crystals. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 10965-10971	3.4	153
11	Effects of Convective Solute and Impurity Transport in Protein Crystal Growth. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 5208-5216	3.4	77
10	Increased Stability in Crystal Growth Kinetics in Response to Bulk Transport Enhancement. <i>Physical Review Letters</i> , <b>1998</b> , 80, 2654-2656	7.4	24
9	Unsteady crystal growth due to step-bunch cascading. <i>Physical Review E</i> , <b>1997</b> , 55, 3202-3214	2.4	46
8	Facet morphology response to nonuniformities in nutrient and impurity supply. II. Numerical simulations. <i>Journal of Crystal Growth</i> , <b>1996</b> , 158, 552-559	1.6	45
7	Nonlinear response of layer growth dynamics in the mixed kinetics-bulk-transport regime. <i>Physical Review E</i> , <b>1996</b> , 54, 6650-6660	2.4	88
6	High resolution interferometric technique for in-situ studies of crystal growth morphologies and kinetics. <i>Journal of Crystal Growth</i> , <b>1995</b> , 148, 289-296	1.6	62
5	Facet morphology response to nonuniformities in nutrient and impurity supply. I. Experiments and interpretation. <i>Journal of Crystal Growth</i> , <b>1995</b> , 156, 267-278	1.6	71
4	Laser Michelson interferometry investigation of protein crystal growth. <i>Journal of Crystal Growth</i> , <b>1993</b> , 130, 317-320	1.6	70
3	Elementary processes of protein crystal growth. <i>Progress in Crystal Growth and Characterization of Materials</i> , <b>1993</b> , 26, 25-49	3.5	41
2	Mesoscopic Liquid Clusters Represent a Distinct Condensate of Mutant p53		3
1	The Two-Step Mechanism and The Solution-Crystal Spinodal for Nucleation of Crystals in Solution. <i>Advances in Chemical Physics</i> , 79-109		5