Christo N Nanev

List of Publications by Year
in descending order

53	882	471509 17	501196 28
papers	citations	h-index	g-index

53	53	53	650
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	On the Vitality of the Classical Theory of Crystal Nucleation; Crystal Nucleation in Pure Own Melt; Atmospheric Ice and Snow; Ice in Frozen Foods. Progress in Crystal Growth and Characterization of Materials, 2022, 68, 100567.	4.0	5
2	How to Manage a Crystallization Process Aimed at Obtaining a Desired Combination of Number of Crystals and Their Distribution by Size: Learn Here. Crystal Research and Technology, 2021, 56, 2000190.	1.3	3
3	Theoretical and experimental investigation of protein crystal nucleation in pores and crevices. IUCrJ, 2021, 8, 270-280.	2.2	5
4	Crystallization in melts; exploration of atmospheric ice formation and snowfall. Journal of Crystal Growth, 2021, 575, 126342.	1.5	2
5	Relationship between number and sizes of crystals growing in batch crystallization: Nuclei number density, nucleation kinetics and crystal polydispersity. Journal of Crystal Growth, 2020, 546, 125786.	1.5	13
6	Evaluation of the critical nucleus size without using interface free energy. Journal of Crystal Growth, 2020, 535, 125521.	1.5	9
7	Advancements (and challenges) in the study of protein crystal nucleation and growth; thermodynamic and kinetic explanations and comparison with small-molecule crystallization. Progress in Crystal Growth and Characterization of Materials, 2020, 66, 100484.	4.0	25
8	Hydrophobic Interface-Assisted Protein Crystallization: Theory and Experiment. ACS Applied Materials & Interfaces, 2019, 11, 12931-12940.	8.0	19
9	2D Monte Carlo Simulation of Patchy Particles Association and Protein Crystal Polymorph Selection. Crystals, 2019, 9, 508.	2.2	7
10	Crystal Size Distribution Resulting from the Time Dependence of Crystal Nucleation. Crystal Research and Technology, 2018, 53, 1700248.	1.3	8
11	Peculiarities of Protein Crystal Nucleation and Growth. Crystals, 2018, 8, 422.	2.2	11
12	Recent Insights into Protein Crystal Nucleation. Crystals, 2018, 8, 219.	2.2	14
13	Steering a crystallization process to reduce crystal polydispersity; case study of insulin crystallization. Journal of Crystal Growth, 2017, 480, 164-169.	1.5	13
14	On some aspects of crystallization process energetics, logistic new phase nucleation kinetics, crystal size distribution and Ostwald ripening. Journal of Applied Crystallography, 2017, 50, 1021-1027.	4.5	8
15	Recent experimental and theoretical studies on protein crystallization. Crystal Research and Technology, 2017, 52, 1600210.	1.3	4
16	Phenomenological Consideration of Protein Crystal Nucleation; the Physics and Biochemistry behind the Phenomenon. Crystals, 2017, 7, 193.	2.2	11
17	Recent Insights into the Crystallization Process; Protein Crystal Nucleation and Growth Peculiarities; Processes in the Presence of Electric Fields. Crystals, 2017, 7, 310.	2.2	17
18	Protein crystal nucleation in pores. Scientific Reports, 2017, 7, 35821.	3.3	38

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19	Bond selection during protein crystallization: Crystal shapes. Crystal Research and Technology, 2015, 50, 451-457.	1.3	3
20	Sigmoid kinetics of protein crystal nucleation. Journal of Crystal Growth, 2015, 427, 48-53.	1.5	26
21	Theory of Nucleation. , 2015, , 315-358.		9
22	On the elementary processes of protein crystallization: Bond selection mechanism. Journal of Crystal Growth, 2014, 402, 195-202.	1.5	8
23	Kinetics and intimate mechanism of protein crystal nucleation. Progress in Crystal Growth and Characterization of Materials, 2013, 59, 133-169.	4.0	21
24	Growth and dissolution of equallyâ€sized insulin crystals. Crystal Research and Technology, 2013, 48, 1003-1010.	1.3	3
25	Protocol for growing insulin crystals of uniform size. Journal of Crystal Growth, 2013, 375, 10-15.	1.5	19
26	Temperature control of protein crystal nucleation. Crystal Research and Technology, 2012, 47, 1195-1200.	1.3	11
27	Equilibrium forms of protein crystals. Journal of Crystal Growth, 2012, 361, 171-175.	1.5	6
28	Brittleness of protein crystals. Crystal Research and Technology, 2012, 47, 922-927.	1.3	11
29	Kinetics of Insulin Crystal Nucleation, Energy Barrier, and Nucleus Size. Crystal Growth and Design, 2011, 11, 196-202.	3.0	43
30	Growth of rhombohedral insulin crystals and in vitro modeling of their dissolution in the blood stream. Crystal Research and Technology, 2011, 46, 119-126.	1.3	5
31	Application of meanâ€separationâ€works method to protein crystal nucleation. Crystal Research and Technology, 2008, 43, 229-233.	1.3	11
32	How do crystal lattice contacts reveal protein crystallization mechanism?. Crystal Research and Technology, 2008, 43, 914-920.	1.3	3
33	On the Slow Kinetics of Protein Crystallization. Crystal Growth and Design, 2007, 7, 1533-1540.	3.0	36
34	Protein crystal nucleation: Recent notions. Crystal Research and Technology, 2007, 42, 4-12.	1.3	35
35	Hypergravity as a Crystallization Tool. Annals of the New York Academy of Sciences, 2006, 1077, 172-183.	3.8	4
36	Is Crystal Growth under Low Supersaturations Influenced by a Tendency to a Minimum of the Surface-Free Energy?. Annals of the New York Academy of Sciences, 2006, 1077, 194-207.	3.8	8

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37	Enhancement and suppression of protein crystal nucleation due to electrically driven convection. Journal of Crystal Growth, 2005, 275, e1527-e1532.	1.5	40
38	On the role of surface energy in the flattening of a crystal face. Open Chemistry, 2005, 3, 188-197.	1.9	0
39	Effects of Buoyancy-Driven Convection on Nucleation and Growth of Protein Crystals. Annals of the New York Academy of Sciences, 2004, 1027, 1-9.	3.8	8
40	Nucleation of Insulin Crystals in a Wide Continuous Supersaturation Gradient. Annals of the New York Academy of Sciences, 2004, 1027, 56-63.	3.8	11
41	Nucleation rate determination by a concentration pulse technique: application on ferritin crystals to show the effect of surface treatment of a substrate. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1588-1592.	2.5	20
42	Polyhedral (in-)stability of protein crystals. Journal of Crystal Growth, 2002, 237-239, 283-288.	1.5	6
43	Temperature-independent solubility and interactions between apoferritin monomers and dimers in solution. Journal of Crystal Growth, 2001, 232, 21-29.	1.5	58
44	Nucleation of lysozyme crystals under external electric and ultrasonic fields. Journal of Crystal Growth, 2001, 232, 285-293.	1.5	107
45	Heterogeneous nucleation (and adhesion) of lysozyme crystals. Journal of Crystal Growth, 1999, 196, 226-233.	1.5	73
46	Polyhedral instability â€" skeletal and dendritic growth. Progress in Crystal Growth and Characterization of Materials, 1997, 35, 1-26.	4.0	28
47	Polyhedral instability and transition to skeletal growth during electrocrystallization of cadmium. Journal of Crystal Growth, 1996, 158, 136-143.	1.5	9
48	Instability of Faceted Crystal Shapes and their Transformation into Skeletons during Growth under Diffusion Control. Crystallography Reviews, 1994, 4, 3-71.	1.5	21
49	On the morphological instability of growing crystals (I) morphological peculiarities of the transition shapes of crystals in diffusion-controlled regime of growth. Crystal Research and Technology, 1988, 23, 585-594.	1.3	9
50	On the slope of the growing pyramids. Crystal Research and Technology: Journal of Experimental and Industrial Crystallography, 1977, 12, 587-598.	0.3	1
51	On the polygonized growth of a step anchoredin two screw dislocations of opposite sign. Journal of Crystal Growth, 1976, 35, 113-119.	1.5	9
52	On the polygonized case of the screw-dislocation mechanism of crystal growth. Journal of Crystal Growth, 1974, 23, 125-128.	1.5	8
53	A Contemporary Look at the Polyhedral Shape Instability of Crystals Growing under Conditions of Diffusionâ€Limited Supply of Building Material. Crystal Research and Technology, 0, , 2100212.	1.3	0