Christo N Nanev

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/7505768/publications.pdf

Version: 2024-02-01

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	Nucleation of lysozyme crystals under external electric and ultrasonic fields. Journal of Crystal Growth, 2001, 232, 285-293.	1.5	107
2	Heterogeneous nucleation (and adhesion) of lysozyme crystals. Journal of Crystal Growth, 1999, 196, 226-233.	1.5	73
3	Temperature-independent solubility and interactions between apoferritin monomers and dimers in solution. Journal of Crystal Growth, 2001, 232, 21-29.	1.5	58
4	Kinetics of Insulin Crystal Nucleation, Energy Barrier, and Nucleus Size. Crystal Growth and Design, 2011, 11, 196-202.	3.0	43
5	Enhancement and suppression of protein crystal nucleation due to electrically driven convection. Journal of Crystal Growth, 2005, 275, e1527-e1532.	1.5	40
6	Protein crystal nucleation in pores. Scientific Reports, 2017, 7, 35821.	3.3	38
7	On the Slow Kinetics of Protein Crystallization. Crystal Growth and Design, 2007, 7, 1533-1540.	3.0	36
8	Protein crystal nucleation: Recent notions. Crystal Research and Technology, 2007, 42, 4-12.	1.3	35
9	Polyhedral instability â€" skeletal and dendritic growth. Progress in Crystal Growth and Characterization of Materials, 1997, 35, 1-26.	4.0	28
10	Sigmoid kinetics of protein crystal nucleation. Journal of Crystal Growth, 2015, 427, 48-53.	1.5	26
11	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
12	Instability of Faceted Crystal Shapes and their Transformation into Skeletons during Growth under Diffusion Control. Crystallography Reviews, 1994, 4, 3-71.	1.5	21
13	Kinetics and intimate mechanism of protein crystal nucleation. Progress in Crystal Growth and Characterization of Materials, 2013, 59, 133-169.	4.0	21
14	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
15	Protocol for growing insulin crystals of uniform size. Journal of Crystal Growth, 2013, 375, 10-15.	1.5	19
16	Hydrophobic Interface-Assisted Protein Crystallization: Theory and Experiment. ACS Applied Materials & Interfaces, 2019, 11, 12931-12940.	8.0	19
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	Recent Insights into Protein Crystal Nucleation. Crystals, 2018, 8, 219.	2.2	14

#	Article	IF	Citations
19	Steering a crystallization process to reduce crystal polydispersity; case study of insulin crystallization. Journal of Crystal Growth, 2017, 480, 164-169.	1.5	13
20	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
21	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
22	Application of meanâ€separationâ€works method to protein crystal nucleation. Crystal Research and Technology, 2008, 43, 229-233.	1.3	11
23	Temperature control of protein crystal nucleation. Crystal Research and Technology, 2012, 47, 1195-1200.	1.3	11
24	Brittleness of protein crystals. Crystal Research and Technology, 2012, 47, 922-927.	1.3	11
25	Phenomenological Consideration of Protein Crystal Nucleation; the Physics and Biochemistry behind the Phenomenon. Crystals, 2017, 7, 193.	2.2	11
26	Peculiarities of Protein Crystal Nucleation and Growth. Crystals, 2018, 8, 422.	2.2	11
27	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
28	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
29	Polyhedral instability and transition to skeletal growth during electrocrystallization of cadmium. Journal of Crystal Growth, 1996, 158, 136-143.	1.5	9
30	Theory of Nucleation. , 2015, , 315-358.		9
31	Evaluation of the critical nucleus size without using interface free energy. Journal of Crystal Growth, 2020, 535, 125521.	1.5	9
32	On the polygonized case of the screw-dislocation mechanism of crystal growth. Journal of Crystal Growth, 1974, 23, 125-128.	1.5	8
33	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
34	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
35	On the elementary processes of protein crystallization: Bond selection mechanism. Journal of Crystal Growth, 2014, 402, 195-202.	1.5	8
36	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

#	Article	IF	Citations
37	Crystal Size Distribution Resulting from the Time Dependence of Crystal Nucleation. Crystal Research and Technology, 2018, 53, 1700248.	1.3	8
38	2D Monte Carlo Simulation of Patchy Particles Association and Protein Crystal Polymorph Selection. Crystals, 2019, 9, 508.	2.2	7
39	Polyhedral (in-)stability of protein crystals. Journal of Crystal Growth, 2002, 237-239, 283-288.	1.5	6
40	Equilibrium forms of protein crystals. Journal of Crystal Growth, 2012, 361, 171-175.	1.5	6
41	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
42	Theoretical and experimental investigation of protein crystal nucleation in pores and crevices. IUCrJ, 2021, 8, 270-280.	2.2	5
43	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
44	Hypergravity as a Crystallization Tool. Annals of the New York Academy of Sciences, 2006, 1077, 172-183.	3.8	4
45	Recent experimental and theoretical studies on protein crystallization. Crystal Research and Technology, 2017, 52, 1600210.	1.3	4
46	How do crystal lattice contacts reveal protein crystallization mechanism?. Crystal Research and Technology, 2008, 43, 914-920.	1.3	3
47	Growth and dissolution of equallyâ€sized insulin crystals. Crystal Research and Technology, 2013, 48, 1003-1010.	1.3	3
48	Bond selection during protein crystallization: Crystal shapes. Crystal Research and Technology, 2015, 50, 451-457.	1.3	3
49	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
50	Crystallization in melts; exploration of atmospheric ice formation and snowfall. Journal of Crystal Growth, 2021, 575, 126342.	1.5	2
51	On the slope of the growing pyramids. Crystal Research and Technology: Journal of Experimental and Industrial Crystallography, 1977, 12, 587-598.	0.3	1
52	On the role of surface energy in the flattening of a crystal face. Open Chemistry, 2005, 3, 188-197.	1.9	0
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