

Fermã-n Otãjlora

List of Publications by Year in descending order

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68
papers

1,976
citations

201674

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docs citations

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times ranked

1809
citing authors

#	ARTICLE	IF	CITATIONS
1	A short overview on practical techniques for protein crystallization and a new approach using low intensity electromagnetic fields. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2022, 68, 100559.	4.0	5
2	A Comprehensive Methodology for Monitoring Evaporitic Mineral Precipitation and Hydrochemical Evolution of Saline Lakes: The Case of Lake Magadi Soda Brine (East African Rift Valley, Kenya). <i>Crystal Growth and Design</i> , 2022, 22, 2307-2317.	3.0	8
3	Equilibrium Shape of 2D Nuclei Obtained from Spiral Hillocks on {010} Form of Gypsum. <i>Crystal Growth and Design</i> , 2020, 20, 1526-1530.	3.0	3
4	Hydrochemical and Mineralogical Evolution through Evaporitic Processes in Salar de Llamara Brines (Atacama, Chile). <i>ACS Earth and Space Chemistry</i> , 2020, 4, 882-896.	2.7	14
5	On the Quality of Protein Crystals Grown under Diffusion Mass-transport Controlled Regime (I). <i>Crystals</i> , 2020, 10, 68.	2.2	9
6	A crystallographic study of crystalline casts and pseudomorphs from the 3.5â€‰Ga Dresser Formation, Pilbara Craton (Australia). <i>Journal of Applied Crystallography</i> , 2018, 51, 1050-1058.	4.5	15
7	Role of CaCO ₃ Neutral Pair in Calcium Carbonate Crystallization. <i>Crystal Growth and Design</i> , 2016, 16, 4173-4177.	3.0	22
8	Three study cases of growth morphology in minerals: Halite, calcite and gypsum. <i>Progress in Crystal Growth and Characterization of Materials</i> , 2016, 62, 227-251.	4.0	87
9	The role of mass transport in protein crystallization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 96-104.	0.8	15
10	<i>CRISTALES: a world to discover.</i> An exhibition for schools and universities. <i>Journal of Applied Crystallography</i> , 2015, 48, 1264-1275.	4.5	4
11	Crystal Growth in Geology. , 2015, , 1-43.		11
12	Nucleation and growth of the Naica giant gypsum crystals. <i>Chemical Society Reviews</i> , 2014, 43, 2013-2026.	38.1	63
13	Influence of Charged Polypeptides on Nucleation and Growth of CaCO ₃ Evaluated by Counterdiffusion Experiments. <i>Crystal Growth and Design</i> , 2013, 13, 3884-3891.	3.0	30
14	A Brownian model for crystal nucleation. <i>Journal of Crystal Growth</i> , 2013, 380, 247-255.	1.5	3
15	In Situ Observation of Elementary Growth Processes of Protein Crystals by Advanced Optical Microscopy. <i>Protein and Peptide Letters</i> , 2012, 19, 743-760.	0.9	7
16	Protein Experiment: Scientific Data Processing Platform for On-Flight Experiment Tuning. <i>Microgravity Science and Technology</i> , 2012, 24, 327-334.	1.4	1
17	Counterdiffusion methods applied to protein crystallization. <i>Progress in Biophysics and Molecular Biology</i> , 2009, 101, 26-37.	2.9	103
18	When individuals senesce: the "Florida effect"™ on stable populations of territorial, long-lived birds. <i>Oikos</i> , 2009, 118, 321-327.	2.7	8

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19	Precise protein solubility determination by Laser confocal differential interference contrast microscopy. <i>Journal of Crystal Growth</i> , 2009, 311, 3479-3484.	1.5	22
20	Direct Observation of Adsorption Sites of Protein Impurities and Their Effects on Step Advancement of Protein Crystals. <i>Crystal Growth and Design</i> , 2009, 9, 3062-3071.	3.0	35
21	Floater mortality within settlement areas can explain the Allee effect in breeding populations. <i>Ecological Modelling</i> , 2008, 213, 98-104.	2.5	32
22	Is Agarose an Impurity or an Impurity Filter? In Situ Observation of the Joint Gel/Impurity Effect on Protein Crystal Growth Kinetics. <i>Crystal Growth and Design</i> , 2008, 8, 3623-3629.	3.0	33
23	Toward a Definition of X-ray Crystal Quality. <i>Crystal Growth and Design</i> , 2008, 8, 4284-4290.	3.0	9
24	Comparison of Different Experimental Techniques for the Measurement of Crystal Growth Kinetics. <i>Crystal Growth and Design</i> , 2008, 8, 4316-4323.	3.0	55
25	Aggregation and crystallisation in space. <i>Europhysics News</i> , 2008, 39, 25-27.	0.3	1
26	Formation of natural gypsum megacrystals in Naica, Mexico. <i>Geology</i> , 2007, 35, 327.	4.4	92
27	Direct and Noninvasive Observation of Two-Dimensional Nucleation Behavior of Protein Crystals by Advanced Optical Microscopy. <i>Crystal Growth and Design</i> , 2007, 7, 1980-1987.	3.0	54
28	Formación de megacristales naturales de yeso en Naica, México. <i>Boletín De La Sociedad Geológica Mexicana</i> , 2007, 59, 63-70.	0.3	1
29	Genesis of filamentary pyrite associated with calcite crystals. <i>European Journal of Mineralogy</i> , 2006, 17, 905-913.	1.3	6
30	Can prey behaviour induce spatially synchronic aggregation of solitary predators?. <i>Oikos</i> , 2006, 113, 497-505.	2.7	16
31	Counterdiffusion protein crystallisation in microgravity and its observation with PromISS (protein) Tj ETQq1 1 0.784314 rgBT /Overlo 165-169.	1.4	14
32	Floater Dynamics Can Explain Positive Patterns of Density-Dependent Fecundity in Animal Populations. <i>American Naturalist</i> , 2006, 168, 697-703.	2.1	35
33	Floater survival affects population persistence. The role of prey availability and environmental stochasticity. <i>Oikos</i> , 2005, 108, 523-534.	2.7	66
34	Environmental stochasticity in dispersal areas can explain the "mysterious" disappearance of breeding populations. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2005, 272, 1265-1269.	2.6	61
35	Crystallographic properties of the calcium phosphate mineral, brushite, by means of First Principles calculations. <i>American Mineralogist</i> , 2004, 89, 307-313.	1.9	32
36	High Resolution Imaging as a Characterization Tool for Biological Crystals. <i>Annals of the New York Academy of Sciences</i> , 2004, 1027, 48-55.	3.8	1

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37	Structure of concanavalin A at pH 8: bound solvent and crystal contacts. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 1048-1056.	2.5	6
38	Characterization of dislocations in protein crystals by means of synchrotron double-crystal topography. Journal of Applied Crystallography, 2004, 37, 67-71.	4.5	46
39	DENSITY-DEPENDENT AGE OF FIRST REPRODUCTION AS A BUFFER AFFECTING PERSISTENCE OF SMALL POPULATIONS. , 2004, 14, 616-624.		70
40	Macromolecular Crystals Growth and Characterization. , 2004, , 369-390.		3
41	Protein crystal quality in diffusive environments and its evaluation. Journal of Crystal Growth, 2003, 247, 177-184.	1.5	9
42	Formation of Chemical Gardens. Journal of Colloid and Interface Science, 2002, 256, 351-359.	9.4	185
43	Granada Crystallisation Box: a new device for protein crystallisation by counter-diffusion techniques. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1638-1642.	2.5	75
44	Lysozyme crystal growth kinetics in microgravity. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1681-1689.	2.5	19
45	Crystallization and cryocrystallography inside X-ray capillaries. Journal of Applied Crystallography, 2001, 34, 365-370.	4.5	29
46	Experimental evidence for the stability of the depletion zone around a growing protein crystal under microgravity. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 412-417.	2.5	34
47	Structure of tetragonal hen egg-white lysozyme at 0.94 Å... from crystals grown by the counter-diffusion method. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1119-1126.	2.5	86
48	A supersaturation wave of protein crystallization. Journal of Crystal Growth, 2001, 232, 149-155.	1.5	44
49	Mosaic spread characterization of microgravity-grown tetragonal lysozyme single crystals. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 644-649.	2.5	9
50	In-situ measurement of rocking curves during lysozyme crystal growth. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 650-655.	2.5	4
51	Topography and high resolution diffraction studies in tetragonal lysozyme. Journal of Crystal Growth, 1999, 196, 546-558.	1.5	59
52	Growth of lysozyme crystals under microgravity conditions in the LMS (STS-78) mission. Journal of Crystal Growth, 1999, 196, 649-664.	1.5	30
53	Supersaturation patterns in counter-diffusion crystallisation methods followed by Mach-Zehnder interferometry. Journal of Crystal Growth, 1999, 196, 703-710.	1.5	34
54	Efecto sobre la reacción de oxígeno de la forma y la microestructura del contacto electrodo-electrolito de electrodos a difusión interna en Celdas de Combustible de Óxido Sólido (SOFC). Boletín De La Sociedad Española De Cerámica Y Vidrio, 1999, 38, 625-629.	1.9	2

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55	Reinforced protein crystals. Materials Research Bulletin, 1998, 33, 1593-1598.	5.2	60
56	Teaching Protein Crystallization by the Gel Acupuncture Method. Journal of Chemical Education, 1998, 75, 442.	2.3	23
57	Crystal growth studies in microgravity with the APCF. II. Image analysis studies. Journal of Crystal Growth, 1997, 182, 155-167.	1.5	28
58	Crystal growth studies in microgravity with the APCF. I. Computer simulation of transport dynamics. Journal of Crystal Growth, 1997, 182, 141-154.	1.5	49
59	Protein crystal quality studies using rod-shaped crystals. Journal of Crystal Growth, 1996, 168, 93-98.	1.5	18
60	Computer model of the diffusion/reaction interplay in the gel acupuncture method. Journal of Crystal Growth, 1996, 169, 361-367.	1.5	27
61	Role of Gravity in the Formation of Liesegang Patterns. The Journal of Physical Chemistry, 1996, 100, 8854-8860.	2.9	19
62	The Formation of Manganese Dendrites as the Mineral Record of Flow Structures. , 1994, , 307-318.		8
63	THE ANISOTROPY OF ON-LATTICE SIMULATIONS OF AGGREGATE GROWTH. , 1994, , 493-500.		0
64	Fluid patterns in the diffusive field around a growing crystal. Journal of Crystal Growth, 1993, 128, 163-166.	1.5	2
65	THE ANISOTROPY OF ON-LATTICE SIMULATIONS OF AGGREGATE GROWTH. Fractals, 1993, 01, 867-874.	3.7	0
66	Fractal trees and Horton's laws. Mathematical Geosciences, 1992, 24, 61-71.	0.9	6
67	Concentration distribution around a crystal growing under diffusional control; a computer simulation. Journal of Crystal Growth, 1992, 118, 160-162.	1.5	5
68	Diffusion limited aggregation. The role of surface diffusion. Physica A: Statistical Mechanics and Its Applications, 1991, 178, 415-420.	2.6	14