

Fermã-n Otãjlora

List of Publications by Year in descending order

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68
papers

1,976
citations

201674

27
h-index

265206

42
g-index

70
all docs

70
docs citations

70
times ranked

1809
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Chemical Gardens. <i>Journal of Colloid and Interface Science</i> , 2002, 256, 351-359.	9.4	185
2	Counterdiffusion methods applied to protein crystallization. <i>Progress in Biophysics and Molecular Biology</i> , 2009, 101, 26-37.	2.9	103
3	Formation of natural gypsum megacrystals in Naica, Mexico. <i>Geology</i> , 2007, 35, 327.	4.4	92
4	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
5	Structure of tetragonal hen egg-white lysozyme at 0.94 Å from crystals grown by the counter-diffusion method. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 1119-1126.	2.5	86
6	Granada Crystallisation Box: a new device for protein crystallisation by counter-diffusion techniques. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1638-1642.	2.5	75
7	DENSITY-DEPENDENT AGE OF FIRST REPRODUCTION AS A BUFFER AFFECTING PERSISTENCE OF SMALL POPULATIONS. , 2004, 14, 616-624.		70
8	Floater survival affects population persistence. The role of prey availability and environmental stochasticity. <i>Oikos</i> , 2005, 108, 523-534.	2.7	66
9	Nucleation and growth of the Naica giant gypsum crystals. <i>Chemical Society Reviews</i> , 2014, 43, 2013-2026.	38.1	63
10	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
11	Reinforced protein crystals. <i>Materials Research Bulletin</i> , 1998, 33, 1593-1598.	5.2	60
12	Topography and high resolution diffraction studies in tetragonal lysozyme. <i>Journal of Crystal Growth</i> , 1999, 196, 546-558.	1.5	59
13	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
14	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
15	Crystal growth studies in microgravity with the APCF. I. Computer simulation of transport dynamics. <i>Journal of Crystal Growth</i> , 1997, 182, 141-154.	1.5	49
16	Characterization of dislocations in protein crystals by means of synchrotron double-crystal topography. <i>Journal of Applied Crystallography</i> , 2004, 37, 67-71.	4.5	46
17	A supersaturation wave of protein crystallization. <i>Journal of Crystal Growth</i> , 2001, 232, 149-155.	1.5	44
18	Floater Dynamics Can Explain Positive Patterns of Density-Dependent Fecundity in Animal Populations. <i>American Naturalist</i> , 2006, 168, 697-703.	2.1	35

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19	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
20	Supersaturation patterns in counter-diffusion crystallisation methods followed by Maché-Zehnder interferometry. <i>Journal of Crystal Growth</i> , 1999, 196, 703-710.	1.5	34
21	Experimental evidence for the stability of the depletion zone around a growing protein crystal under microgravity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2001, 57, 412-417.	2.5	34
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	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
24	Floater mortality within settlement areas can explain the Allee effect in breeding populations. <i>Ecological Modelling</i> , 2008, 213, 98-104.	2.5	32
25	Growth of lysozyme crystals under microgravity conditions in the LMS (STS-78) mission. <i>Journal of Crystal Growth</i> , 1999, 196, 649-664.	1.5	30
26	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
27	Crystallization and cryocrystallography inside X-ray capillaries. <i>Journal of Applied Crystallography</i> , 2001, 34, 365-370.	4.5	29
28	Crystal growth studies in microgravity with the APCF. II. Image analysis studies. <i>Journal of Crystal Growth</i> , 1997, 182, 155-167.	1.5	28
29	Computer model of the diffusion/reaction interplay in the gel acupuncture method. <i>Journal of Crystal Growth</i> , 1996, 169, 361-367.	1.5	27
30	Teaching Protein Crystallization by the Gel Acupuncture Method. <i>Journal of Chemical Education</i> , 1998, 75, 442.	2.3	23
31	Precise protein solubility determination by Laser confocal differential interference contrast microscopy. <i>Journal of Crystal Growth</i> , 2009, 311, 3479-3484.	1.5	22
32	Role of CaCO ₃ ° Neutral Pair in Calcium Carbonate Crystallization. <i>Crystal Growth and Design</i> , 2016, 16, 4173-4177.	3.0	22
33	Role of Gravity in the Formation of Liesegang Patterns. <i>The Journal of Physical Chemistry</i> , 1996, 100, 8854-8860.	2.9	19
34	Lysozyme crystal growth kinetics in microgravity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1681-1689.	2.5	19
35	Protein crystal quality studies using rod-shaped crystals. <i>Journal of Crystal Growth</i> , 1996, 168, 93-98.	1.5	18
36	Can prey behaviour induce spatially synchronic aggregation of solitary predators?. <i>Oikos</i> , 2006, 113, 497-505.	2.7	16

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37	The role of mass transport in protein crystallization. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 96-104.	0.8	15
38	A crystallographic study of crystalline casts and pseudomorphs from the 3.5â€¦Ga Dresser Formation, Pilbara Craton (Australia). Journal of Applied Crystallography, 2018, 51, 1050-1058.	4.5	15
39	Diffusion limited aggregation. The role of surface diffusion. Physica A: Statistical Mechanics and Its Applications, 1991, 178, 415-420.	2.6	14
40	Counterdiffusion protein crystallisation in microgravity and its observation with PromISS (protein) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 165-169.	1.4	14
41	Hydrochemical and Mineralogical Evolution through Evaporitic Processes in Salar de Llamara Brines (Atacama, Chile). ACS Earth and Space Chemistry, 2020, 4, 882-896.	2.7	14
42	Crystal Growth in Geology. , 2015, , 1-43.		11
43	Mosaic spread characterization of microgravity-grown tetragonal lysozyme single crystals. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 644-649.	2.5	9
44	Protein crystal quality in diffusive environments and its evaluation. Journal of Crystal Growth, 2003, 247, 177-184.	1.5	9
45	Toward a Definition of X-ray Crystal Quality. Crystal Growth and Design, 2008, 8, 4284-4290.	3.0	9
46	On the Quality of Protein Crystals Grown under Diffusion Mass-transport Controlled Regime (I). Crystals, 2020, 10, 68.	2.2	9
47	When individuals senesce: the â€Florida effectâ€™™ on stable populations of territorial, longâ€lived birds. Oikos, 2009, 118, 321-327.	2.7	8
48	The Formation of Manganese Dendrites as the Mineral Record of Flow Structures. , 1994, , 307-318.		8
49	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). Crystal Growth and Design, 2022, 22, 2307-2317.	3.0	8
50	In Situ Observation of Elementary Growth Processes of Protein Crystals by Advanced Optical Microscopy. Protein and Peptide Letters, 2012, 19, 743-760.	0.9	7
51	Fractal trees and Horton's laws. Mathematical Geosciences, 1992, 24, 61-71.	0.9	6
52	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
53	Genesis of filamentary pyrite associated with calcite crystals. European Journal of Mineralogy, 2006, 17, 905-913.	1.3	6
54	Concentration distribution around a crystal growing under diffusional control; a computer simulation. Journal of Crystal Growth, 1992, 118, 160-162.	1.5	5

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55	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
56	In-situ measurement of rocking curves during lysozyme crystal growth. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1999, 55, 650-655.	2.5	4
57	<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
58	A Brownian model for crystal nucleation. <i>Journal of Crystal Growth</i> , 2013, 380, 247-255.	1.5	3
59	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
60	Macromolecular Crystals Growth and Characterization. , 2004, , 369-390.		3
61	Fluid patterns in the diffusive field around a growing crystal. <i>Journal of Crystal Growth</i> , 1993, 128, 163-166.	1.5	2
62	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). <i>Boletín De La Sociedad Española De Cerámica Y Vidrio</i> , 1999, 38, 625-629.	1.9	2
63	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
64	Aggregation and crystallisation in space. <i>Europhysics News</i> , 2008, 39, 25-27.	0.3	1
65	Protein Experiment: Scientific Data Processing Platform for On-Flight Experiment Tuning. <i>Microgravity Science and Technology</i> , 2012, 24, 327-334.	1.4	1
66	Formación de megacristales naturales de yeso en Naica, México. <i>Boletín De La Sociedad Geológica Mexicana</i> , 2007, 59, 63-70.	0.3	1
67	THE ANISOTROPY OF ON-LATTICE SIMULATIONS OF AGGREGATE GROWTH. <i>Fractals</i> , 1993, 01, 867-874.	3.7	0
68	THE ANISOTROPY OF ON-LATTICE SIMULATIONS OF AGGREGATE GROWTH. , 1994, , 493-500.		0