

Juan Manuel GarcÃ-a-Ruiz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4666694/publications.pdf>

Version: 2024-02-01

211
papers

8,951
citations

36203

51
h-index

54797

84
g-index

224
all docs

224
docs citations

224
times ranked

7573
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.4	8
2	Teaching and Education highlighted. <i>Journal of Applied Crystallography</i> , 2022, 55, 215-217.	1.9	0
3	Dynamic diffusion and precipitation processes across calcium silicate membranes. <i>Journal of Colloid and Interface Science</i> , 2022, 618, 206-218.	5.0	3
4	Nanoscale Anatomy of Iron-Silica Self-Organized Membranes: Implications for Prebiotic Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 1396-1402.	7.2	11
5	Nanoscale Anatomy of Iron-Silica Self-Organized Membranes: Implications for Prebiotic Chemistry. <i>Angewandte Chemie</i> , 2021, 133, 1416-1422.	1.6	6
6	Punin Ripening and the Classification of Solution-Mediated Recrystallization Mechanisms. <i>Crystal Growth and Design</i> , 2021, 21, 1267-1277.	1.4	5
7	Local Light-Controlled Generation of Calcium Carbonate and Barium Carbonate Biomorphs via Photochemical Stimulation. <i>Chemistry - A European Journal</i> , 2021, 27, 12521-12525.	1.7	3
8	Tubular Structures of Calcium Carbonate: Formation, Characterization, and Implications in Natural Mineral Environments. <i>Chemistry - A European Journal</i> , 2021, 27, 16135-16144.	1.7	8
9	Prebiotic Organic Chemistry of Formamide and the Origin of Life in Planetary Conditions: What We Know and What Is the Future. <i>International Journal of Molecular Sciences</i> , 2021, 22, 917.	1.8	15
10	The role of borosilicate glass in Miller-Urey experiment. <i>Scientific Reports</i> , 2021, 11, 21009.	1.6	19
11	Identifying microbial life in rocks: Insights from population morphometry. <i>Geobiology</i> , 2020, 18, 282-305.	1.1	12
12	On the controls of mineral assemblages and textures in alkaline springs, Samail Ophiolite, Oman. <i>Chemical Geology</i> , 2020, 533, 119435.	1.4	27
13	The convergence of minerals and life. <i>Physics of Life Reviews</i> , 2020, 34-35, 99-104.	1.5	1
14	Light-switchable anchors on magnetized biomorphic microcarriers. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4831-4835.	2.9	4
15	Mineral Vesicles and Chemical Gardens from Carbonate-Rich Alkaline Brines of Lake Magadi, Kenya. <i>Crystals</i> , 2020, 10, 467.	1.0	13
16	Equilibrium Shape of 2D Nuclei Obtained from Spiral Hillocks on {010} Form of Gypsum. <i>Crystal Growth and Design</i> , 2020, 20, 1526-1530.	1.4	3
17	Mineral self-organization on a lifeless planet. <i>Physics of Life Reviews</i> , 2020, 34-35, 62-82.	1.5	28
18	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.	1.2	14

#	ARTICLE	IF	CITATIONS
19	On the Quality of Protein Crystals Grown under Diffusion Mass-transport Controlled Regime (I). Crystals, 2020, 10, 68.	1.0	9
20	Geochemistry and mineralogy of serpentinization-driven hyperalkaline springs in the Ronda peridotites. Lithos, 2019, 350-351, 105215.	0.6	15
21	Great spotted cuckoo eggshell microstructure characteristics can make eggs stronger. Journal of Avian Biology, 2019, 50, .	0.6	14
22	Hybrid Biomimetic Materials from Silica/Carbonate Biomorphs. Crystals, 2019, 9, 157.	1.0	10
23	A Universal Geochemical Scenario for Formamide Condensation and Prebiotic Chemistry. Chemistry - A European Journal, 2019, 25, 3181-3189.	1.7	59
24	A Polyextreme Hydrothermal System Controlled by Iron: The Case of Dallol at the Afar Triangle. ACS Earth and Space Chemistry, 2019, 3, 90-99.	1.2	32
25	A morphogram for silica-cwitherite biomorphs and its application to microfossil identification in the early earth rock record. Geobiology, 2018, 16, 279-296.	1.1	52
26	Silica Metal Oxide Vesicles Catalyze Comprehensive Prebiotic Chemistry. Chemistry - A European Journal, 2018, 24, 8126-8132.	1.7	43
27	Thermal assisted self-organization of calcium carbonate. Nature Communications, 2018, 9, 5221.	5.8	35
28	Structural Transition of Inorganic Silica-Carbonate Composites Towards Curved Lifelike Morphologies. Minerals (Basel, Switzerland), 2018, 8, 75.	0.8	8
29	A crystallographic study of crystalline casts and pseudomorphs from the 3.5 Ga Dresser Formation, Pilbara Craton (Australia). Journal of Applied Crystallography, 2018, 51, 1050-1058.	1.9	15
30	Growth behaviour of silica/carbonate nanocrystalline composites of calcite and aragonite. Journal of Materials Chemistry B, 2017, 5, 1658-1663.	2.9	25
31	Local pH oscillations witness autocatalytic self-organization of biomorphic nanostructures. Nature Communications, 2017, 8, 14427.	5.8	40
32	Biomimetic mineral self-organization from silica-rich spring waters. Science Advances, 2017, 3, e1602285.	4.7	79
33	Precipitation and Crystallization Kinetics in Silica Gardens. ChemPhysChem, 2017, 18, 338-345.	1.0	15
34	Efficient Screening Methodology for Protein Crystallization Based on the Counter-Diffusion Technique. Crystal Growth and Design, 2017, 17, 6780-6786.	1.4	14
35	Habitability on Early Mars and the Search for Biosignatures with the ExoMars Rover. Astrobiology, 2017, 17, 471-510.	1.5	371
36	Physicochemical and Additive Controls on the Multistep Precipitation Pathway of Gypsum. Minerals (Basel, Switzerland), 2017, 7, 140.	0.8	27

#	ARTICLE	IF	CITATIONS
37	Diffusion and precipitation processes in iron-based silica gardens. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 24850-24858.	1.3	29
38	Polypeptide effect on Mg ²⁺ hydration inferred from CaCO ₃ formation: a biomineralization study by counter-diffusion. <i>CrystEngComm</i> , 2016, 18, 3265-3272.	1.3	13
39	Unraveling the Sulfate Sources of (Giant) Gypsum Crystals Using Gypsum Isotope Fractionation Factors. <i>Journal of Geology</i> , 2016, 124, 235-245.	0.7	24
40	Role of CaCO ₃ ° Neutral Pair in Calcium Carbonate Crystallization. <i>Crystal Growth and Design</i> , 2016, 16, 4173-4177.	1.4	22
41	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.	1.8	87
42	A Global Scale Scenario for Prebiotic Chemistry: Silica-Based Self-Assembled Mineral Structures and Formamide. <i>Biochemistry</i> , 2016, 55, 2806-2811.	1.2	65
43	The role of mass transport in protein crystallization. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 96-104.	0.4	15
44	Growth Behavior of Monohydrocalcite (CaCO ₃ ·H ₂ O) in Silica-Rich Alkaline Solution. <i>Crystal Growth and Design</i> , 2015, 15, 564-572.	1.4	17
45	Large-volume protein crystal growth for neutron macromolecular crystallography. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2015, 71, 358-370.	0.4	31
46	<i>CRISTALES: a world to discover.</i> An exhibition for schools and universities. <i>Journal of Applied Crystallography</i> , 2015, 48, 1264-1275.	1.9	4
47	Crystal Growth in Geology. , 2015, , 1-43.		11
48	Biological Crystallization. , 2015, , 873-913.		7
49	The 2.1 Ga Old Francevillian Biota: Biogenicity, Taphonomy and Biodiversity. <i>PLoS ONE</i> , 2014, 9, e99438.	1.1	53
50	Formation of chemical gardens on granitic rock: a new type of alteration for alkaline systems. <i>European Journal of Mineralogy</i> , 2014, 26, 415-426.	0.4	17
51	Calcium carbonate bio-precipitation in counter-diffusion systems using the soluble organic matrix from nacre and sea-urchin spine. <i>European Journal of Mineralogy</i> , 2014, 26, 523-535.	0.4	17
52	Transient Calcium Carbonate Hexahydrate (Ikaite) Nucleated and Stabilized in Confined Nano- and Picovolumes. <i>Crystal Growth and Design</i> , 2014, 14, 792-802.	1.4	28
53	Nucleation and growth of the Naica giant gypsum crystals. <i>Chemical Society Reviews</i> , 2014, 43, 2013-2026.	18.7	63
54	Stereospecific alkylation of substituted adenines by the Mitsunobu coupling reaction under microwave-assisted conditions. <i>RSC Advances</i> , 2014, 4, 22425-22433.	1.7	16

#	ARTICLE	IF	CITATIONS
55	The gypsum–anhydrite paradox revisited. <i>Chemical Geology</i> , 2014, 386, 16-21.	1.4	82
56	In Situ Live Observation of Nucleation and Dissolution of Sodium Chlorate Nanoparticles by Transmission Electron Microscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 1762-1765.	6.6	45
57	Exploring coral biomineralization in gelling environments by means of a counter diffusion system. <i>CrystEngComm</i> , 2014, 16, 1257-1267.	1.3	20
58	Ti(III)-Catalyzed Cyclizations of Ketoepoxypolyprenes: Control over the Number of Rings and Unexpected Stereoselectivities. <i>Journal of the American Chemical Society</i> , 2014, 136, 6943-6951.	6.6	30
59	Effect of bulk pH and supersaturation on the growth behavior of silica biomorphs in alkaline solutions. <i>CrystEngComm</i> , 2013, 15, 43-53.	1.3	19
60	Crystallization of monohydrocalcite in a silica-rich alkaline solution. <i>CrystEngComm</i> , 2013, 15, 6526.	1.3	12
61	Analysis of the Structural Integrity of SU-8-Based Optofluidic Systems for Small-Molecule Crystallization Studies. <i>Analytical Chemistry</i> , 2013, 85, 9678-9685.	3.2	15
62	Bottom-Up Self-Assembly of Amorphous Core–Shell Nanoparticles and Biomimetic Crystal Forms in Inorganic Silica–Carbonate Systems. <i>Chemistry of Materials</i> , 2013, 25, 1842-1851.	3.2	25
63	The effect of silica on polymorphic precipitation of calcium carbonate: an on-line energy-dispersive X-ray diffraction (EDXRD) study. <i>Nanoscale</i> , 2013, 5, 7054.	2.8	38
64	Experimental Techniques for the Growth and Characterization of Silica Biomorphs and Silica Gardens. <i>Methods in Enzymology</i> , 2013, 532, 225-256.	0.4	23
65	Determining gypsum growth temperatures using monophasic fluid inclusions—Application to the giant gypsum crystals of Naica, Mexico. <i>Geology</i> , 2013, 41, 119-122.	2.0	20
66	Mutational and Structural Analysis of I - N -Carbamoylase Reveals New Insights into a Peptidase M20/M25/M40 Family Member. <i>Journal of Bacteriology</i> , 2012, 194, 5759-5768.	1.0	23
67	Pattern formation in stromatolites: insights from mathematical modelling. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1051-1062.	1.5	13
68	Evidence for chemoreceptors with bimodular ligand-binding regions harboring two signal-binding sites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18926-18931.	3.3	68
69	Versatile Bottom–Up Approach to Stapled –Conjugated Helical Scaffolds: Synthesis and Chiroptical Properties of Cyclic –Phenylene Ethynylene Oligomers. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 13036-13040.	7.2	31
70	Silica Biomorphs: Complex Biomimetic Hybrid Materials from “Sand and Chalk”. <i>European Journal of Inorganic Chemistry</i> , 2012, 2012, 5123-5144.	1.0	78
71	The Role and Implications of Bassanite as a Stable Precursor Phase to Gypsum Precipitation. <i>Science</i> , 2012, 336, 69-72.	6.0	294
72	Crystal engineering in confined spaces. A novel method to grow crystalline metal phosphonates in alginate gel systems. <i>CrystEngComm</i> , 2012, 14, 5385.	1.3	32

#	ARTICLE	IF	CITATIONS
73	<i>In situ</i> X-ray data collection from highly sensitive crystals of <i>Pseudomonas putida</i> PtX in complex with DNA. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1307-1310.	0.7	6
74	Inorganic pyrophosphatase crystals from <i>Thermococcus thio-reducens</i> for X-ray and neutron diffraction. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1482-1487.	0.7	19
75	Multifunctional Luminescent and Proton-Conducting Lanthanide Carboxyphosphonate Open-Framework Hybrids Exhibiting Crystalline-to-Amorphous-to-Crystalline Transformations. Chemistry of Materials, 2012, 24, 3780-3792.	3.2	162
76	Colloidal Stabilization of Calcium Carbonate Prenucleation Clusters with Silica. Advanced Functional Materials, 2012, 22, 4301-4311.	7.8	103
77	Innentitelbild: Formation and Evolution of Chemical Gradients and Potential Differences Across Self-Assembling Inorganic Membranes (Angew. Chem. 18/2012). Angewandte Chemie, 2012, 124, 4316-4316.	1.6	0
78	Formation and Evolution of Chemical Gradients and Potential Differences Across Self-Assembling Inorganic Membranes. Angewandte Chemie - International Edition, 2012, 51, 4317-4321.	7.2	54
79	Inside Cover: Formation and Evolution of Chemical Gradients and Potential Differences Across Self-Assembling Inorganic Membranes (Angew. Chem. Int. Ed. 18/2012). Angewandte Chemie - International Edition, 2012, 51, 4242-4242.	7.2	0
80	Local autocatalytic co-precipitation phenomena in self-assembled silica-carbonate materials. Journal of Colloid and Interface Science, 2012, 380, 1-7.	5.0	26
81	Crystallization and crystallographic analysis of the ligand-binding domain of the <i>Pseudomonas putida</i> chemoreceptor McpS in complex with malate and succinate. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 428-431.	0.7	2
82	Growth Behavior and Kinetics of Self-Assembled Silica-Carbonate Biomorphs. Chemistry - A European Journal, 2012, 18, 2272-2282.	1.7	40
83	On/off electrochemical switches based on quinone-bis(ketals). Chemical Communications, 2011, 47, 1586-1588.	2.2	18
84	Hetero- vs Homogeneous Nucleation of Protein Crystals Discriminated by Supersaturation. Crystal Growth and Design, 2011, 11, 1542-1548.	1.4	26
85	Common Structural Features in Calcium Hydroxyphosphonoacetates. A High-Throughput Screening. Crystal Growth and Design, 2011, 11, 1713-1722.	1.4	32
86	Divalent Metal Vinylphosphonate Layered Materials: Compositional Variability, Structural Peculiarities, Dehydration Behavior, and Photoluminescent Properties. Inorganic Chemistry, 2011, 50, 11202-11211.	1.9	25
87	Poly(ethylene) oxide for small-molecule crystal growth in gelled organic solvents. Journal of Applied Crystallography, 2011, 44, 172-176.	1.9	22
88	Understanding the polymorphic behaviour of a mutant of the λ -spectrin SH3 domain by means of two 1.1 Å resolution structures. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 189-196.	2.5	7
89	New (RS)-benzoxazepin-purines with antitumour activity: The chiral switch from (RS)-2,6-dichloro-9-[1-(p-nitrobenzenesulfonyl)-1,2,3,5-tetrahydro-4,1-benzoxazepin-3-yl]-9H-purine. European Journal of Medicinal Chemistry, 2011, 46, 249-258.	2.6	39
90	Ultraslow growth rates of giant gypsum crystals. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15721-15726.	3.3	62

#	ARTICLE	IF	CITATIONS
91	Biomimetic Carbonate—Hydroxyapatite Nanocrystals Prepared by Vapor Diffusion. <i>Advanced Engineering Materials</i> , 2010, 12, B218.	1.6	52
92	Nucleation and Polymorphism of Calcium Carbonate by a Vapor Diffusion Sitting Drop Crystallization Technique. <i>Crystal Growth and Design</i> , 2010, 10, 963-969.	1.4	33
93	<i>In Situ</i> Observation of Step Dynamics on Gypsum Crystals. <i>Crystal Growth and Design</i> , 2010, 10, 3909-3916.	1.4	54
94	Stabilization of Amorphous Calcium Carbonate in Inorganic Silica-Rich Environments. <i>Journal of the American Chemical Society</i> , 2010, 132, 17859-17866.	6.6	130
95	Toward the Crystallization of Photosystem II Core Complex from <i>Pisum sativum</i> L.. <i>Crystal Growth and Design</i> , 2010, 10, 3391-3396.	1.4	1
96	Structure of dihydropyrimidinase from <i>Sinorhizobium meliloti</i> CECT4114: New features in an amidohydrolase family member. <i>Journal of Structural Biology</i> , 2010, 169, 200-208.	1.3	28
97	Morphogenesis of Self-Assembled Nanocrystalline Materials of Barium Carbonate and Silica. <i>Science</i> , 2009, 323, 362-365.	6.0	221
98	Counterdiffusion methods applied to protein crystallization. <i>Progress in Biophysics and Molecular Biology</i> , 2009, 101, 26-37.	1.4	103
99	Ti—Catalyzed Barbier—Type Allylations and Related Reactions. <i>Chemistry - A European Journal</i> , 2009, 15, 2774-2791.	1.7	93
100	Crystallization and diffraction patterns of the oxy and cyano forms of the <i>Lucina pectinata</i> haemoglobins complex. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 25-28.	0.7	8
101	Phase behavior and crystallogenesi under counter-diffusion conditions of the collagen-model peptide (Pro—Pro—Gly) ₁₀ . <i>Journal of Crystal Growth</i> , 2009, 311, 304-309.	0.7	2
102	On the Mixing of Protein Crystallization Cocktails. <i>Crystal Growth and Design</i> , 2009, 9, 2707-2712.	1.4	11
103	Silica Gel Template for Calcium Phosphates Crystallization. <i>Crystal Growth and Design</i> , 2009, 9, 4912-4921.	1.4	39
104	Role of Bulk pH during Witherite Biomorph Growth in Silica Gels. <i>Crystal Growth and Design</i> , 2009, 9, 4730-4734.	1.4	33
105	Crystallization Behavior of Coordination Polymers. 1. Kinetic and Thermodynamic Features of 1,3-Bis(4-pyridyl)propane/MCl ₂ Systems. <i>Crystal Growth and Design</i> , 2009, 9, 5024-5034.	1.4	23
106	Effects of a Magnetic Field on Lysozyme Crystal Nucleation and Growth in a Diffusive Environment. <i>Crystal Growth and Design</i> , 2009, 9, 2610-2615.	1.4	34
107	Crystallization of proteins on functionalized surfaces. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 1054-1061.	2.5	29
108	Crystallization and preliminary crystallographic studies of an active-site mutant hydantoin racemase from <i>Sinorhizobium meliloti</i> CECT4114. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 50-53.	0.7	5

#	ARTICLE	IF	CITATIONS
109	Crystallization and preliminary crystallographic studies of the recombinant L-N-carbamoylase from <i>Geobacillus stearothermophilus</i> CECT43. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 1135-1138.	0.7	4
110	Influence of eggshell matrix proteins on the precipitation of calcium carbonate (CaCO ₃). <i>Journal of Crystal Growth</i> , 2008, 310, 1754-1759.	0.7	57
111	Identification of Some Active Proteins in the Process of Hen Eggshell Formation. <i>Crystal Growth and Design</i> , 2008, 8, 4330-4339.	1.4	59
112	Nanocrystalline structures in calcium carbonate biominerals. <i>Journal of Nanophotonics</i> , 2008, 2, 021935.	0.4	2
113	Investigation of the Compatibility of Gels with Precipitating Agents and Detergents in Protein Crystallization Experiments. <i>Crystal Growth and Design</i> , 2008, 8, 4291-4296.	1.4	9
114	Toward a Definition of X-ray Crystal Quality. <i>Crystal Growth and Design</i> , 2008, 8, 4284-4290.	1.4	9
115	Granada Crystallization Facility-2: A Versatile Platform for Crystallization in Space. <i>Crystal Growth and Design</i> , 2008, 8, 4324-4329.	1.4	15
116	Influence of Model Globular Proteins with Different Isoelectric Points on the Precipitation of Calcium Carbonate. <i>Crystal Growth and Design</i> , 2008, 8, 1495-1502.	1.4	79
117	Structure and Ligand Selection of Hemoglobin II from <i>Lucina pectinata</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 9414-9423.	1.6	24
118	Analysis of avian eggshell microstructure using X-ray area detectors. <i>European Journal of Mineralogy</i> , 2007, 19, 391-398.	0.4	24
119	Formation of natural gypsum megacrystals in Naica, Mexico. <i>Geology</i> , 2007, 35, 327.	2.0	92
120	Structure of the mexican E-64 complex and comparison with other cysteine proteases of the papain family. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 555-563.	2.5	11
121	Crystallization by capillary counter-diffusion and structure determination of the N114A mutant of the SH3 domain of Abl tyrosine kinase complexed with a high-affinity peptide ligand. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 646-652.	2.5	10
122	New techniques for membrane protein crystallization tested on photosystem II core complex of <i>Pisum sativum</i> . <i>Photosynthesis Research</i> , 2007, 90, 255-259.	1.6	14
123	Genesis of filamentary pyrite associated with calcite crystals. <i>European Journal of Mineralogy</i> , 2006, 17, 905-913.	0.4	6
124	Capillary crystallization and molecular-replacement solution of haemoglobin II from the clam <i>Lucina pectinata</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 196-199.	0.7	15
125	Crystallization and preliminary crystallographic studies of the recombinant dihydropyrimidinase from <i>Sinorhizobium meliloti</i> CECT4114. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2006, 62, 1223-1226.	0.7	10
126	Counterdiffusion protein crystallisation in microgravity and its observation with PromISS (protein) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 165-169.	0.7	14

#	ARTICLE	IF	CITATIONS
127	Changes in eggshell mechanical properties, crystallographic texture and in matrix proteins induced by moult in hens. <i>British Poultry Science</i> , 2005, 46, 268-279.	0.8	102
128	Chiral Symmetry Breaking during Crystallization: An Advection-Mediated Nonlinear Autocatalytic Process. <i>Physical Review Letters</i> , 2004, 93, 035502.	2.9	65
129	Structural study of the type II 3-dehydroquinase dehydratase from <i>Actinobacillus pleuropneumoniae</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 463-471.	2.5	12
130	Purification, crystallization and preliminary X-ray analysis of mexicain. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 2058-2060.	2.5	8
131	Self-assembly of carbonate-silica colloids: between living and non-living form. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2004, 339, 24-33.	1.2	51
132	DENSITY-DEPENDENT AGE OF FIRST REPRODUCTION AS A BUFFER AFFECTING PERSISTENCE OF SMALL POPULATIONS. , 2004, 14, 616-624.		70
133	Avian eggshell mineralization: biochemical and functional characterization of matrix proteins. <i>Comptes Rendus - Palevol</i> , 2004, 3, 549-562.	0.1	385
134	Macromolecular Crystals Growth and Characterization. , 2004, , 369-390.		3
135	Physics and chemistry of icy particles in the universe: answers from microgravity. <i>Planetary and Space Science</i> , 2003, 51, 473-494.	0.9	53
136	The potent anticancer compound ecteinascidin-743 (ET-743) as its 2-propanol disolvate. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2003, 59, o197-o198.	0.4	5
137	Influence of lysozyme on the precipitation of calcium carbonate: a kinetic and morphologic study. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1667-1676.	1.6	100
138	Nucleation of protein crystals. <i>Journal of Structural Biology</i> , 2003, 142, 22-31.	1.3	151
139	Counterdiffusion Methods for Macromolecular Crystallization. <i>Methods in Enzymology</i> , 2003, 368, 130-154.	0.4	104
140	Self-Assembled Silica-Carbonate Structures and Detection of Ancient Microfossils. <i>Science</i> , 2003, 302, 1194-1197.	6.0	463
141	2003 Spring meeting of the WPSA French Branch. <i>British Poultry Science</i> , 2003, 44, 782-783.	0.8	1
142	Morphology: An Ambiguous Indicator of Biogenicity. <i>Astrobiology</i> , 2002, 2, 353-369.	1.5	154
143	Influence of the microstructure on the shell strength of eggs laid by hens of different ages. <i>British Poultry Science</i> , 2002, 43, 395-403.	0.8	158
144	Formation of Chemical Gardens. <i>Journal of Colloid and Interface Science</i> , 2002, 256, 351-359.	5.0	185

#	ARTICLE	IF	CITATIONS
145	Soaking: the effect of osmotic shock on tetragonal lysozyme crystals. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 209-214.	2.5	21
146	Ab initio crystallographic structure determination of insulin from protein to electron density without crystal handling. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1147-1154.	2.5	49
147	Experimental observations and numerical modelling of diffusion-driven crystallisation processes. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1628-1632.	2.5	18
148	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
149	Lysozyme crystal growth kinetics in microgravity. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1681-1689.	2.5	19
150	Agarose as crystallisation media for proteins II: Trapping of gel fibres into the crystals. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1653-1656.	2.5	75
151	Ovotransferrin is a Matrix Protein of the Hen Eggshell Membranes and Basal Calcified Layer. <i>Connective Tissue Research</i> , 2001, 42, 255-267.	1.1	142
152	Crystallization and cryocrystallography inside X-ray capillaries. <i>Journal of Applied Crystallography</i> , 2001, 34, 365-370.	1.9	29
153	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
154	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
155	Visualization of the impurity depletion zone surrounding apoferritin crystals growing in gel with holoferritin dimer impurity. <i>Journal of Crystal Growth</i> , 2001, 232, 184-187.	0.7	28
156	Crystallization screening directly in electrophoresis gels. <i>Journal of Crystal Growth</i> , 2001, 232, 596-602.	0.7	3
157	A supersaturation wave of protein crystallization. <i>Journal of Crystal Growth</i> , 2001, 232, 149-155.	0.7	44
158	Agarose as crystallization media for proteins. <i>Journal of Crystal Growth</i> , 2001, 232, 165-172.	0.7	99
159	Biochemical and functional characterisation of eggshell matrix proteins in hens. <i>World's Poultry Science Journal</i> , 2001, 57, 401-413.	1.4	90
160	Synthesis of a new hydroxyapatite-silica composite material. <i>Journal of Crystal Growth</i> , 2000, 211, 111-115.	0.7	51
161	Discussion: The development of ammonoid septa: An epithelial invagination process controlled by morphogens or by viscous fingering?. <i>Historical Biology</i> , 2000, 14, 299-303.	0.7	4
162	Identification and localization of lysozyme as a component of eggshell membranes and eggshell matrix. <i>Matrix Biology</i> , 2000, 19, 443-453.	1.5	215

#	ARTICLE	IF	CITATIONS
163	The Effect of Avian Uterine Fluid on the Growth Behavior of Calcite Crystals. Poultry Science, 2000, 79, 901-907.	1.5	71
164	Model of textural development of layered crystal aggregates. European Journal of Mineralogy, 2000, 12, 609-614.	0.4	42
165	GEOCHEMICAL SCENARIOS FOR THE PRECIPITATION OF BIOMIMETIC INORGANIC CARBONATES. , 2000, , 75-89.		12
166	Mosaic spread characterization of microgravity-grown tetragonal lysozyme single crystals. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 644-649.	2.5	9
167	In-situ measurement of rocking curves during lysozyme crystal growth. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 650-655.	2.5	4
168	Pattern formation in crystal growth: Liesegang rings. Computer Physics Communications, 1999, 121-122, 411-413.	3.0	24
169	Topography and high resolution diffraction studies in tetragonal lysozyme. Journal of Crystal Growth, 1999, 196, 546-558.	0.7	59
170	Growth of lysozyme crystals under microgravity conditions in the LMS (STS-78) mission. Journal of Crystal Growth, 1999, 196, 649-664.	0.7	30
171	Supersaturation patterns in counter-diffusion crystallisation methods followed by Maché“Zehnder interferometry. Journal of Crystal Growth, 1999, 196, 703-710.	0.7	34
172	<title>Morphological behavior of inorganic precipitation systems</title>. , 1999, 3755, 74.		7
173	Arcade Games for Teaching Crystal Growth. Journal of Chemical Education, 1999, 76, 499.	1.1	2
174	Importance of Electrostatic Interactions Between Calcite Surfaces and Proteins. Materials Research Society Symposia Proceedings, 1999, 599, 353.	0.1	2
175	Reinforced protein crystals. Materials Research Bulletin, 1998, 33, 1593-1598.	2.7	60
176	Teaching Protein Crystallization by the Gel Acupuncture Method. Journal of Chemical Education, 1998, 75, 442.	1.1	23
177	Carbonate precipitation into alkaline silica-rich environments. Geology, 1998, 26, 843.	2.0	67
178	Growth kinetics of protein single crystals in the gel acupuncture technique. Journal of Crystal Growth, 1997, 178, 393-401.	0.7	29
179	Crystal growth studies in microgravity with the APCF. II. Image analysis studies. Journal of Crystal Growth, 1997, 182, 155-167.	0.7	28
180	Crystal growth studies in microgravity with the APCF. I. Computer simulation of transport dynamics. Journal of Crystal Growth, 1997, 182, 141-154.	0.7	49

#	ARTICLE	IF	CITATIONS
181	Growth of shaped single crystals of proteins. <i>Journal of Crystal Growth</i> , 1996, 166, 919-924.	0.7	9
182	Protein crystal quality studies using rod-shaped crystals. <i>Journal of Crystal Growth</i> , 1996, 168, 93-98.	0.7	18
183	A preliminary study on the interaction of ferritin single crystals with chelating agents. <i>Journal of Crystal Growth</i> , 1996, 168, 138-141.	0.7	6
184	Computer model of the diffusion/reaction interplay in the gel acupuncture method. <i>Journal of Crystal Growth</i> , 1996, 169, 361-367.	0.7	27
185	Shaped protein single crystals. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1995, 51, 278-281.	2.5	13
186	Textural analysis of eggshells. <i>Materials Science and Engineering C</i> , 1995, 3, 95-100.	3.8	26
187	Nucleation and clustering: a microscopic study of the aggregation behaviour in metastable solutions. <i>Journal of Non-Crystalline Solids</i> , 1995, 192-193, 503-508.	1.5	4
188	Inorganic self-organisation in precambrian cherts. <i>Origins of Life and Evolution of Biospheres</i> , 1994, 24, 451-467.	0.8	39
189	Investigations on protein crystal growth by the gel acupuncture method. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 1994, 50, 484-490.	2.5	96
190	Patterns of Competitive Crystal Growth. <i>Materials Research Society Symposia Proceedings</i> , 1994, 355, 107.	0.1	3
191	Fluid patterns in the diffusive field around a growing crystal. <i>Journal of Crystal Growth</i> , 1993, 128, 163-166.	0.7	2
192	A model for the morphogenesis of ammonoid septal sutures. <i>Geobios</i> , 1993, 26, 157-162.	0.7	16
193	Crystal quality of lysozyme single crystals grown by the gel acupuncture method. <i>Materials Research Bulletin</i> , 1993, 28, 541-546.	2.7	39
194	Crystal growth and characterization of methylenebisphosphonate partial esters. <i>Journal Physics D: Applied Physics</i> , 1993, 26, B172-B175.	1.3	7
195	Fractal trees and Horton's laws. <i>Mathematical Geosciences</i> , 1992, 24, 61-71.	0.9	6
196	Morphology of gel-grown barium carbonate aggregates - pH effect on control by a silicate-carbonate membrane. <i>Materials Research Bulletin</i> , 1992, 27, 1031-1040.	2.7	22
197	Concentration distribution around a crystal growing under diffusional control; a computer simulation. <i>Journal of Crystal Growth</i> , 1992, 118, 160-162.	0.7	5
198	The Detection of Salting-out. A Comparative Study. <i>Crystal Research and Technology</i> , 1991, 26, 35-42.	0.6	7

#	ARTICLE	IF	CITATIONS
199	Diffusion limited aggregation. The role of surface diffusion. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1991, 178, 415-420.	1.2	14
200	Growth of KDP single crystals by temperature reduction under diffusion transport. <i>Crystal Research and Technology</i> , 1987, 22, 645-650.	0.6	4
201	Oscillatory growth rates in single crystals growing under diffusional control. <i>Journal of Crystal Growth</i> , 1987, 84, 555-558.	0.7	16
202	Crystal growth in gels and Liesegang ring formation. <i>Journal of Crystal Growth</i> , 1986, 75, 195-202.	0.7	86
203	Growth history of PbS single crystals at room temperature. <i>Journal of Crystal Growth</i> , 1986, 75, 441-453.	0.7	39
204	Nucleation behaviour in small liquid volumes at high rates of change of supersaturation. <i>Journal of Crystal Growth</i> , 1986, 79, 630-635.	0.7	0
205	Crystal growth in gels and Liesegang ring formation. <i>Journal of Crystal Growth</i> , 1986, 75, 203-211.	0.7	62
206	On the formation of induced morphology crystal aggregates. <i>Journal of Crystal Growth</i> , 1985, 73, 251-262.	0.7	99
207	On the growth of KDP and KDP:Ni single crystals by the gel technique. <i>Materials Research Bulletin</i> , 1985, 20, 1157-1163.	2.7	7
208	Growth of bis-dimethylglyoximate Co (III). Single crystals. <i>Crystal Research and Technology</i> , 1985, 20, 1615-1620.	0.6	2
209	Growth of Potassium Sulphate Crystals by Silica Gel Technique. <i>Crystal Research and Technology</i> , 1982, 17, 1209-1215.	0.6	0
210	Morphological aspects of some symmetrical crystal aggregates grown by silica gel technique. <i>Journal of Crystal Growth</i> , 1981, 55, 379-383.	0.7	61
211	Growth of calcite crystals with non-singular faces. <i>Journal of Crystal Growth</i> , 1981, 52, 864-867.	0.7	27