Juan Manuel GarcÃ-a-Ruiz

List of Publications by Year in descending order

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211 papers

8,951 citations

51 h-index 84

g-index

224 all docs

224 docs citations

times ranked

224

7573 citing authors

#	Article	IF	CITATIONS
1	Self-Assembled Silica-Carbonate Structures and Detection of Ancient Microfossils. Science, 2003, 302, 1194-1197.	12.6	463
2	Avian eggshell mineralization: biochemical and functional characterization of matrix proteins. Comptes Rendus - Palevol, 2004, 3, 549-562.	0.2	385
3	Habitability on Early Mars and the Search for Biosignatures with the ExoMars Rover. Astrobiology, 2017, 17, 471-510.	3.0	371
4	The Role and Implications of Bassanite as a Stable Precursor Phase to Gypsum Precipitation. Science, 2012, 336, 69-72.	12.6	294
5	Morphogenesis of Self-Assembled Nanocrystalline Materials of Barium Carbonate and Silica. Science, 2009, 323, 362-365.	12.6	221
6	Identification and localization of lysozyme as a component of eggshell membranes and eggshell matrix. Matrix Biology, 2000, 19, 443-453.	3.6	215
7	Formation of Chemical Gardens. Journal of Colloid and Interface Science, 2002, 256, 351-359.	9.4	185
8	Multifunctional Luminescent and Proton-Conducting Lanthanide Carboxyphosphonate Open-Framework Hybrids Exhibiting Crystalline-to-Amorphous-to-Crystalline Transformations. Chemistry of Materials, 2012, 24, 3780-3792.	6.7	162
9	Influence of the microstructure on the shell strength of eggs laid by hens of different ages. British Poultry Science, 2002, 43, 395-403.	1.7	158
10	Morphology: An Ambiguous Indicator of Biogenicity. Astrobiology, 2002, 2, 353-369.	3.0	154
11	Nucleation of protein crystals. Journal of Structural Biology, 2003, 142, 22-31.	2.8	151
12	Ovotransferrin is a Matrix Protein of the Hen Eggshell Membranes and Basal Calcified Layer. Connective Tissue Research, 2001, 42, 255-267.	2.3	142
13	Stabilization of Amorphous Calcium Carbonate in Inorganic Silica-Rich Environments. Journal of the American Chemical Society, 2010, 132, 17859-17866.	13.7	130
14	Counterdiffusion Methods for Macromolecular Crystallization. Methods in Enzymology, 2003, 368, 130-154.	1.0	104
15	Counterdiffusion methods applied to protein crystallization. Progress in Biophysics and Molecular Biology, 2009, 101, 26-37.	2.9	103
16	Colloidal Stabilization of Calcium Carbonate Prenucleation Clusters with Silica. Advanced Functional Materials, 2012, 22, 4301-4311.	14.9	103
17	Changes in eggshell mechanical properties, crystallographic texture and in matrix proteins induced by moult in hens. British Poultry Science, 2005, 46, 268-279.	1.7	102
18	Influence of lysozyme on the precipitation of calcium carbonate: a kinetic and morphologic study. Geochimica Et Cosmochimica Acta, 2003, 67, 1667-1676.	3.9	100

#	Article	IF	CITATIONS
19	On the formation of induced morphology crystal aggregates. Journal of Crystal Growth, 1985, 73, 251-262.	1.5	99
20	Agarose as crystallization media for proteins. Journal of Crystal Growth, 2001, 232, 165-172.	1.5	99
21	Investigations on protein crystal growth by the gel acupuncture method. Acta Crystallographica Section D: Biological Crystallography, 1994, 50, 484-490.	2.5	96
22	Tiâ€Catalyzed Barbierâ€Type Allylations and Related Reactions. Chemistry - A European Journal, 2009, 15, 2774-2791.	3.3	93
23	Formation of natural gypsum megacrystals in Naica, Mexico. Geology, 2007, 35, 327.	4.4	92
24	Biochemical and functional characterisation of eggshell matrix proteins in hens. World's Poultry Science Journal, 2001, 57, 401-413.	3.0	90
25	Three study cases of growth morphology in minerals: Halite, calcite and gypsum. Progress in Crystal Growth and Characterization of Materials, 2016, 62, 227-251.	4.0	87
26	Crystal growth in gels and Liesegang ring formation. Journal of Crystal Growth, 1986, 75, 195-202.	1.5	86
27	Structure of tetragonal hen egg-white lysozyme at 0.94â€Ã from crystals grown by the counter-diffusion method. Acta Crystallographica Section D: Biological Crystallography, 2001, 57, 1119-1126.	2.5	86
28	The gypsum–anhydrite paradox revisited. Chemical Geology, 2014, 386, 16-21.	3.3	82
29	Influence of Model Globular Proteins with Different Isoelectric Points on the Precipitation of Calcium Carbonate. Crystal Growth and Design, 2008, 8, 1495-1502.	3.0	79
30	Biomimetic mineral self-organization from silica-rich spring waters. Science Advances, 2017, 3, e1602285.	10.3	79
31	Silica Biomorphs: Complex Biomimetic Hybrid Materials from "Sand and Chalk― European Journal of Inorganic Chemistry, 2012, 2012, 5123-5144.	2.0	78
32	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
33	Agarose as crystallisation media for proteins II: Trapping of gel fibres into the crystals. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1653-1656.	2.5	75
34	The Effect of Avian Uterine Fluid on the Growth Behavior of Calcite Crystals. Poultry Science, 2000, 79, 901-907.	3.4	71
35	DENSITY-DEPENDENT AGE OF FIRST REPRODUCTION AS A BUFFER AFFECTING PERSISTENCE OF SMALL POPULATIONS. , 2004, 14, 616-624.		70
36	Evidence for chemoreceptors with bimodular ligand-binding regions harboring two signal-binding sites. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18926-18931.	7.1	68

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37	Carbonate precipitation into alkaline silica-rich environments. Geology, 1998, 26, 843.	4.4	67
38	Chiral Symmetry Breaking during Crystallization: An Advection-Mediated Nonlinear Autocatalytic Process. Physical Review Letters, 2004, 93, 035502.	7.8	65
39	A Clobal Scale Scenario for Prebiotic Chemistry: Silica-Based Self-Assembled Mineral Structures and Formamide. Biochemistry, 2016, 55, 2806-2811.	2.5	65
40	Nucleation and growth of the Naica giant gypsum crystals. Chemical Society Reviews, 2014, 43, 2013-2026.	38.1	63
41	Crystal growth in gels and Liesegang ring formation. Journal of Crystal Growth, 1986, 75, 203-211.	1.5	62
42	Ultraslow growth rates of giant gypsum crystals. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 15721-15726.	7.1	62
43	Morphological aspects of some symmetrical crystal aggregates grown by silica gel technique. Journal of Crystal Growth, 1981, 55, 379-383.	1.5	61
44	Reinforced protein crystals. Materials Research Bulletin, 1998, 33, 1593-1598.	5.2	60
45	Topography and high resolution diffraction studies in tetragonal lysozyme. Journal of Crystal Growth, 1999, 196, 546-558.	1.5	59
46	Identification of Some Active Proteins in the Process of Hen Eggshell Formation. Crystal Growth and Design, 2008, 8, 4330-4339.	3.0	59
47	A Universal Geochemical Scenario for Formamide Condensation and Prebiotic Chemistry. Chemistry - A European Journal, 2019, 25, 3181-3189.	3.3	59
48	Influence of eggshell matrix proteins on the precipitation of calcium carbonate (CaCO3). Journal of Crystal Growth, 2008, 310, 1754-1759.	1.5	57
49	<i>In Situ</i> Observation of Step Dynamics on Gypsum Crystals. Crystal Growth and Design, 2010, 10, 3909-3916.	3.0	54
50	Formation and Evolution of Chemical Gradients and Potential Differences Across Selfâ€Assembling Inorganic Membranes. Angewandte Chemie - International Edition, 2012, 51, 4317-4321.	13.8	54
51	Physics and chemistry of icy particles in the universe: answers from microgravity. Planetary and Space Science, 2003, 51, 473-494.	1.7	53
52	The 2.1 Ga Old Francevillian Biota: Biogenicity, Taphonomy and Biodiversity. PLoS ONE, 2014, 9, e99438.	2.5	53
53	Biomimetic Carbonate–Hydroxyapatite Nanocrystals Prepared by Vapor Diffusion. Advanced Engineering Materials, 2010, 12, B218.	3.5	52
54	A morphogram for silicaâ€witherite biomorphs and its application to microfossil identification in the early earth rock record. Geobiology, 2018, 16, 279-296.	2.4	52

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55	Synthesis of a new hydroxyapatite-silica composite material. Journal of Crystal Growth, 2000, 211, 111-115.	1.5	51
56	Self-assembly of carbonate-silica colloids: between living and non-living form. Physica A: Statistical Mechanics and Its Applications, 2004, 339, 24-33.	2.6	51
57	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
58	Ab initiocrystallographic structure determination of insulin from protein to electron density without crystal handling. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1147-1154.	2.5	49
59	In Situ Live Observation of Nucleation and Dissolution of Sodium Chlorate Nanoparticles by Transmission Electron Microscopy. Journal of the American Chemical Society, 2014, 136, 1762-1765.	13.7	45
60	A supersaturation wave of protein crystallization. Journal of Crystal Growth, 2001, 232, 149-155.	1.5	44
61	Silica Metal Oxide Vesicles Catalyze Comprehensive Prebiotic Chemistry. Chemistry - A European Journal, 2018, 24, 8126-8132.	3.3	43
62	Model of textural development of layered crystal aggregates. European Journal of Mineralogy, 2000, 12, 609-614.	1.3	42
63	Growth Behavior and Kinetics of Selfâ€Assembled Silica–Carbonate Biomorphs. Chemistry - A European Journal, 2012, 18, 2272-2282.	3.3	40
64	Local pH oscillations witness autocatalytic self-organization of biomorphic nanostructures. Nature Communications, 2017, 8, 14427.	12.8	40
65	Growth history of PbS single crystals at room temperature. Journal of Crystal Growth, 1986, 75, 441-453.	1.5	39
66	Crystal quality of lysozyme single crystals grown by the gel acupuncture method. Materials Research Bulletin, 1993, 28, 541-546.	5.2	39
67	Inorganic self-organisation in precambrian cherts. Origins of Life and Evolution of Biospheres, 1994, 24, 451-467.	1.9	39
68	Silica Gel Template for Calcium Phosphates Crystallization. Crystal Growth and Design, 2009, 9, 4912-4921.	3.0	39
69	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.	5.5	39
70	The effect of silica on polymorphic precipitation of calcium carbonate: an on-line energy-dispersive X-ray diffraction (EDXRD) study. Nanoscale, 2013, 5, 7054.	5.6	38
71	Thermal assisted self-organization of calcium carbonate. Nature Communications, 2018, 9, 5221.	12.8	35
72	Supersaturation patterns in counter-diffusion crystallisation methods followed by Mach–Zehnder interferometry. Journal of Crystal Growth, 1999, 196, 703-710.	1.5	34

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73	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
74	Effects of a Magnetic Field on Lysozyme Crystal Nucleation and Growth in a Diffusive Environment. Crystal Growth and Design, 2009, 9, 2610-2615.	3.0	34
75	Role of Bulk pH during Witherite Biomorph Growth in Silica Gels. Crystal Growth and Design, 2009, 9, 4730-4734.	3.0	33
76	Nucleation and Polymorphism of Calcium Carbonate by a Vapor Diffusion Sitting Drop Crystallization Technique. Crystal Growth and Design, 2010, 10, 963-969.	3.0	33
77	Common Structural Features in Calcium Hydroxyphosphonoacetates. A High-Throughput Screening. Crystal Growth and Design, 2011, 11, 1713-1722.	3.0	32
78	Crystal engineering in confined spaces. A novel method to grow crystalline metal phosphonates in alginate gel systems. CrystEngComm, 2012, 14, 5385.	2.6	32
79	A Polyextreme Hydrothermal System Controlled by Iron: The Case of Dallol at the Afar Triangle. ACS Earth and Space Chemistry, 2019, 3, 90-99.	2.7	32
80	Versatile Bottomâ€up Approach to Stapled Ï€â€Conjugated Helical Scaffolds: Synthesis and Chiroptical Properties of Cyclic <i>>o</i> >â€Phenylene Ethynylene Oligomers. Angewandte Chemie - International Edition, 2012, 51, 13036-13040.	13.8	31
81	Large-volume protein crystal growth for neutron macromolecular crystallography. Acta Crystallographica Section F, Structural Biology Communications, 2015, 71, 358-370.	0.8	31
82	Growth of lysozyme crystals under microgravity conditions in the LMS (STS-78) mission. Journal of Crystal Growth, 1999, 196, 649-664.	1.5	30
83	Ti(III)-Catalyzed Cyclizations of Ketoepoxypolyprenes: Control over the Number of Rings and Unexpected Stereoselectivities. Journal of the American Chemical Society, 2014, 136, 6943-6951.	13.7	30
84	Growth kinetics of protein single crystals in the gel acupuncture technique. Journal of Crystal Growth, 1997, 178, 393-401.	1.5	29
85	Crystallization and cryocrystallography inside X-ray capillaries. Journal of Applied Crystallography, 2001, 34, 365-370.	4.5	29
86	Crystallization of proteins on functionalized surfaces. Acta Crystallographica Section D: Biological Crystallography, 2008, 64, 1054-1061.	2.5	29
87	Diffusion and precipitation processes in iron-based silica gardens. Physical Chemistry Chemical Physics, 2016, 18, 24850-24858.	2.8	29
88	Crystal growth studies in microgravity with the APCF. II. Image analysis studies. Journal of Crystal Growth, 1997, 182, 155-167.	1.5	28
89	Visualization of the impurity depletion zone surrounding apoferritin crystals growing in gel with holoferritin dimer impurity. Journal of Crystal Growth, 2001, 232, 184-187.	1.5	28
90	Structure of dihydropyrimidinase from Sinorhizobium meliloti CECT4114: New features in an amidohydrolase family member. Journal of Structural Biology, 2010, 169, 200-208.	2.8	28

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91	Transient Calcium Carbonate Hexahydrate (Ikaite) Nucleated and Stabilized in Confined Nano- and Picovolumes. Crystal Growth and Design, 2014, 14, 792-802.	3.0	28
92	Mineral self-organization on a lifeless planet. Physics of Life Reviews, 2020, 34-35, 62-82.	2.8	28
93	Growth of calcite crystals with non-singular faces. Journal of Crystal Growth, 1981, 52, 864-867.	1.5	27
94	Computer model of the diffusion/reaction interplay in the gel acupuncture method. Journal of Crystal Growth, 1996, 169, 361-367.	1.5	27
95	Physicochemical and Additive Controls on the Multistep Precipitation Pathway of Gypsum. Minerals (Basel, Switzerland), 2017, 7, 140.	2.0	27
96	On the controls of mineral assemblages and textures in alkaline springs, Samail Ophiolite, Oman. Chemical Geology, 2020, 533, 119435.	3.3	27
97	Textural analysis of eggshells. Materials Science and Engineering C, 1995, 3, 95-100.	7.3	26
98	Hetero- vs Homogeneous Nucleation of Protein Crystals Discriminated by Supersaturation. Crystal Growth and Design, 2011, 11, 1542-1548.	3.0	26
99	Local autocatalytic co-precipitation phenomena in self-assembled silica–carbonate materials. Journal of Colloid and Interface Science, 2012, 380, 1-7.	9.4	26
100	Divalent Metal Vinylphosphonate Layered Materials: Compositional Variability, Structural Peculiarities, Dehydration Behavior, and Photoluminescent Properties. Inorganic Chemistry, 2011, 50, 11202-11211.	4.0	25
101	Bottom-Up Self-Assembly of Amorphous Core–Shell–Shell Nanoparticles and Biomimetic Crystal Forms in Inorganic Silica–Carbonate Systems. Chemistry of Materials, 2013, 25, 1842-1851.	6.7	25
102	Growth behaviour of silica/carbonate nanocrystalline composites of calcite and aragonite. Journal of Materials Chemistry B, 2017, 5, 1658-1663.	5.8	25
103	Pattern formation in crystal growth: Liesegang rings. Computer Physics Communications, 1999, 121-122, 411-413.	7.5	24
104	Analysis of avian eggshell microstructure using X-ray area detectors. European Journal of Mineralogy, 2007, 19, 391-398.	1.3	24
105	Structure and Ligand Selection of Hemoglobin II from Lucina pectinata. Journal of Biological Chemistry, 2008, 283, 9414-9423.	3.4	24
106	Unraveling the Sulfate Sources of (Giant) Gypsum Crystals Using Gypsum Isotope Fractionation Factors. Journal of Geology, 2016, 124, 235-245.	1.4	24
107	Teaching Protein Crystallization by the Gel Acupuncture Method. Journal of Chemical Education, 1998, 75, 442.	2.3	23
108	Crystallization Behavior of Coordination Polymers. 1. Kinetic and Thermodynamic Features of 1,3-Bis(4-pyridyl)propane/MCl ₂ Systems. Crystal Growth and Design, 2009, 9, 5024-5034.	3.0	23

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109	Mutational and Structural Analysis of l - N -Carbamoylase Reveals New Insights into a Peptidase M20/M25/M40 Family Member. Journal of Bacteriology, 2012, 194, 5759-5768.	2.2	23
110	Experimental Techniques for the Growth and Characterization of Silica Biomorphs and Silica Gardens. Methods in Enzymology, 2013, 532, 225-256.	1.0	23
111	Morphology of gel-grown barium carbonate aggregates - pH effect on control by a silicate-carbonate membrane. Materials Research Bulletin, 1992, 27, 1031-1040.	5.2	22
112	Poly(ethylene) oxide for small-molecule crystal growth in gelled organic solvents. Journal of Applied Crystallography, 2011, 44, 172-176.	4.5	22
113	Role of CaCO ₃ ° Neutral Pair in Calcium Carbonate Crystallization. Crystal Growth and Design, 2016, 16, 4173-4177.	3.0	22
114	Soaking: the effect of osmotic shock on tetragonal lysozyme crystals. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 209-214.	2.5	21
115	Determining gypsum growth temperatures using monophase fluid inclusions—Application to the giant gypsum crystals of Naica, Mexico. Geology, 2013, 41, 119-122.	4.4	20
116	Exploring coral biomineralization in gelling environments by means of a counter diffusion system. CrystEngComm, 2014, 16, 1257-1267.	2.6	20
117	Lysozyme crystal growth kinetics in microgravity. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1681-1689.	2.5	19
118	Inorganic pyrophosphatase crystals from <i>Thermococcus thioreducens</i> for X-ray and neutron diffraction. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 1482-1487.	0.7	19
119	Effect of bulk pH and supersaturation on the growth behavior of silica biomorphs in alkaline solutions. CrystEngComm, 2013, 15, 43-53.	2.6	19
120	The role of borosilicate glass in Miller–Urey experiment. Scientific Reports, 2021, 11, 21009.	3.3	19
121	Protein crystal quality studies using rod-shaped crystals. Journal of Crystal Growth, 1996, 168, 93-98.	1.5	18
122	Experimental observations and numerical modelling of diffusion-driven crystallisation processes. Acta Crystallographica Section D: Biological Crystallography, 2002, 58, 1628-1632.	2.5	18
123	On/off electrochemical switches based on quinone-bisketals. Chemical Communications, 2011, 47, 1586-1588.	4.1	18
124	Formation of chemical gardens on granitic rock: a new type of alteration for alkaline systems. European Journal of Mineralogy, 2014, 26, 415-426.	1.3	17
125	Calcium carbonate bio-precipitation in counter-diffusion systems using the soluble organic matrix from nacre and sea-urchin spine. European Journal of Mineralogy, 2014, 26, 523-535.	1.3	17
126	Growth Behavior of Monohydrocalcite (CaCO3·H2O) in Silica-Rich Alkaline Solution. Crystal Growth and Design, 2015, 15, 564-572.	3.0	17

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127	Oscillatory growth rates in single crystals growing under diffusional control. Journal of Crystal Growth, 1987, 84, 555-558.	1.5	16
128	A model for the morphogenesis of ammonoid septal sutures. Geobios, 1993, 26, 157-162.	1.4	16
129	Stereospecific alkylation of substituted adenines by the Mitsunobu coupling reaction under microwave-assisted conditions. RSC Advances, 2014, 4, 22425-22433.	3.6	16
130	Capillary crystallization and molecular-replacement solution of haemoglobin II from the clamLucina pectinata. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 196-199.	0.7	15
131	Granada Crystallization Facility-2: A Versatile Platform for Crystallization in Space. Crystal Growth and Design, 2008, 8, 4324-4329.	3.0	15
132	Analysis of the Structural Integrity of SU-8-Based Optofluidic Systems for Small-Molecule Crystallization Studies. Analytical Chemistry, 2013, 85, 9678-9685.	6.5	15
133	The role of mass transport in protein crystallization. Acta Crystallographica Section F, Structural Biology Communications, 2016, 72, 96-104.	0.8	15
134	Precipitation and Crystallization Kinetics in Silica Gardens. ChemPhysChem, 2017, 18, 338-345.	2.1	15
135	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
136	Geochemistry and mineralogy of serpentinization-driven hyperalkaline springs in the Ronda peridotites. Lithos, 2019, 350-351, 105215.	1.4	15
137	Prebiotic Organic Chemistry of Formamide and the Origin of Life in Planetary Conditions: What We Know and What Is the Future. International Journal of Molecular Sciences, 2021, 22, 917.	4.1	15
138	Diffusion limited aggregation. The role of surface diffusion. Physica A: Statistical Mechanics and Its Applications, 1991, 178, 415-420.	2.6	14
139	Counterdiffusion protein crystallisation in microgravity and its observation with PromISS (protein) Tj ETQq1 1 0.78		BT /Overlock 14
140	New techniques for membrane protein crystallization tested on photosystem II core complex of PisumÂsativum. Photosynthesis Research, 2007, 90, 255-259.	2.9	14
141	Efficient Screening Methodology for Protein Crystallization Based on the Counter-Diffusion Technique. Crystal Growth and Design, 2017, 17, 6780-6786.	3.0	14
142	Great spotted cuckoo eggshell microstructure characteristics can make eggs stronger. Journal of Avian Biology, 2019, 50, .	1.2	14
143	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
144	Shaped protein single crystals. Acta Crystallographica Section D: Biological Crystallography, 1995, 51, 278-281.	2.5	13

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145	Pattern formation in stromatolites: insights from mathematical modelling. Journal of the Royal Society Interface, 2012, 9, 1051-1062.	3.4	13
146	Polypeptide effect on Mg ²⁺ hydration inferred from CaCO ₃ formation: a biomineralization study by counter-diffusion. CrystEngComm, 2016, 18, 3265-3272.	2.6	13
147	Mineral Vesicles and Chemical Gardens from Carbonate-Rich Alkaline Brines of Lake Magadi, Kenya. Crystals, 2020, 10, 467.	2.2	13
148	Structural study of the type II 3-dehydroquinate dehydratase fromActinobacillus pleuropneumoniae. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 463-471.	2.5	12
149	Crystallization of monohydrocalcite in a silica-rich alkaline solution. CrystEngComm, 2013, 15, 6526.	2.6	12
150	Identifying microbial life in rocks: Insights from population morphometry. Geobiology, 2020, 18, 282-305.	2.4	12
151	GEOCHEMICAL SCENARIOS FOR THE PRECIPITATION OF BIOMIMETIC INORGANIC CARBONATES. , 2000, , 75-89.		12
152	Structure of the mexicain–E-64 complex and comparison with other cysteine proteases of the papain family. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 555-563.	2.5	11
153	On the Mixing of Protein Crystallization Cocktails. Crystal Growth and Design, 2009, 9, 2707-2712.	3.0	11
154	Crystal Growth in Geology. , 2015, , 1-43.		11
155	Nanoscale Anatomy of Ironâ€Silica Selfâ€Organized Membranes: Implications for Prebiotic Chemistry. Angewandte Chemie - International Edition, 2021, 60, 1396-1402.	13.8	11
156	Crystallization and preliminary crystallographic studies of the recombinant dihydropyrimidinase from Sinorhizobium melilotiCECT4114. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 1223-1226.	0.7	10
157	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. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 646-652.	2.5	10
158	Hybrid Biomimetic Materials from Silica/Carbonate Biomorphs. Crystals, 2019, 9, 157.	2.2	10
159	Growth of shaped single crystals of proteins. Journal of Crystal Growth, 1996, 166, 919-924.	1.5	9
160	Mosaic spread characterization of microgravity-grown tetragonal lysozyme single crystals. Acta Crystallographica Section D: Biological Crystallography, 1999, 55, 644-649.	2.5	9
161	Investigation of the Compatibility of Gels with Precipitating Agents and Detergents in Protein Crystallization Experiments. Crystal Growth and Design, 2008, 8, 4291-4296.	3.0	9
162	Toward a Definition of X-ray Crystal Quality. Crystal Growth and Design, 2008, 8, 4284-4290.	3.0	9

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163	On the Quality of Protein Crystals Grown under Diffusion Mass-transport Controlled Regime (I). Crystals, 2020, 10, 68.	2.2	9
164	Purification, crystallization and preliminary X-ray analysis of mexicain. Acta Crystallographica Section D: Biological Crystallography, 2004, 60, 2058-2060.	2.5	8
165	Crystallization and diffraction patterns of the oxy and cyano forms of the <i>Lucina pectinata </i> haemoglobins complex. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 25-28.	0.7	8
166	Structural Transition of Inorganic Silica–Carbonate Composites Towards Curved Lifelike Morphologies. Minerals (Basel, Switzerland), 2018, 8, 75.	2.0	8
167	Tubular Structures of Calcium Carbonate: Formation, Characterization, and Implications in Natural Mineral Environments. Chemistry - A European Journal, 2021, 27, 16135-16144.	3.3	8
168	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
169	On the growth of KDP and KDP:Ni single crystals by the gel technique. Materials Research Bulletin, 1985, 20, 1157-1163.	5.2	7
170	The Detection of Salting-out. A Comparative Study. Crystal Research and Technology, 1991, 26, 35-42.	1.3	7
171	Crystal growth and characterization of methylenebisphosphonate partial esters. Journal Physics D: Applied Physics, 1993, 26, B172-B175.	2.8	7
172	<title>Morphological behavior of inorganic precipitation systems</title> ., 1999, 3755, 74.		7
173	Understanding the polymorphic behaviour of a mutant of the \hat{l} ±-spectrin SH3 domain by means of two 1.1â \in \hat{A} resolution structures. Acta Crystallographica Section D: Biological Crystallography, 2011, 67, 189-196.	2.5	7
174	Biological Crystallization. , 2015, , 873-913.		7
175	Fractal trees and Horton's laws. Mathematical Geosciences, 1992, 24, 61-71.	0.9	6
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