

# Giuseppe Falini

## List of Publications by Year in descending order

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191  
papers

7,482  
citations

57758

44  
h-index

66911

78  
g-index

198  
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198  
docs citations

198  
times ranked

7685  
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of Aragonite or Calcite Polymorphism by Mollusk Shell Macromolecules. <i>Science</i> , 1996, 271, 67-69.	12.6	1,336
2	Supramolecular Assembly of Amelogenin Nanospheres into Birefringent Microribbons. <i>Science</i> , 2005, 307, 1450-1454.	12.6	327
3	Magnesium influence on hydroxyapatite crystallization. <i>Journal of Inorganic Biochemistry</i> , 1993, 49, 69-78.	3.5	263
4	Biologically inspired growth of hydroxyapatite nanocrystals inside self-assembled collagen fibers. <i>Materials Science and Engineering C</i> , 2003, 23, 441-446.	7.3	128
5	Tubular-Shaped Stoichiometric Chrysotile Nanocrystals. <i>Chemistry - A European Journal</i> , 2004, 10, 3043-3049.	3.3	128
6	Oriented Crystallization of Vaterite in Collagenous Matrices. <i>Chemistry - A European Journal</i> , 1998, 4, 1048-1052.	3.3	122
7	Gains and losses of coral skeletal porosity changes with ocean acidification acclimation. <i>Nature Communications</i> , 2015, 6, 7785.	12.8	106
8	Rietveld structure refinements of calcium hydroxylapatite containing magnesium. <i>Acta Crystallographica Section B: Structural Science</i> , 1996, 52, 87-92.	1.8	99
9	Analytical pyrolysis of dipeptides containing proline and amino acids with polar side chains. Novel 2,5-diketopiperazine markers in the pyrolysates of proteins. <i>Journal of Analytical and Applied Pyrolysis</i> , 2012, 95, 145-155.	5.5	99
10	Biomimetic Crystallization of Calcium Carbonate Polymorphs by Means of Collagenous Matrices. <i>Chemistry - A European Journal</i> , 1997, 3, 1807-1814.	3.3	97
11	Solvent-Induced Modulation of Collective Photophysical Processes in Fluorescent Silica Nanoparticles. <i>Journal of the American Chemical Society</i> , 2002, 124, 13540-13546.	13.7	92
12	Thioredoxin-dependent regulation of photosynthetic glyceraldehyde-3-phosphate dehydrogenase: autonomous vs. CP12-dependent mechanisms. <i>Photosynthesis Research</i> , 2006, 89, 263-275.	2.9	90
13	Chitin-Silk Fibroin Interactions: Relevance to Calcium Carbonate Formation in Invertebrates. <i>Calcified Tissue International</i> , 2003, 72, 548-554.	3.1	88
14	Crystallization of calcium carbonate in presence of magnesium and polyelectrolytes. <i>Journal of Crystal Growth</i> , 1994, 137, 577-584.	1.5	86
15	Effect of Inorganic Anions on the Morphology and Structure of Magnesium Calcite. <i>Chemistry - A European Journal</i> , 2004, 10, 1647-1656.	3.3	86
16	Influence on the Formation of Aragonite or Vaterite by Otolith Macromolecules. <i>European Journal of Inorganic Chemistry</i> , 2005, 2005, 162-167.	2.0	86
17	Protein crystallization on polymeric film surfaces. <i>Journal of Crystal Growth</i> , 2001, 224, 327-334.	1.5	85
18	Chitin Mineralization. <i>Tissue Engineering</i> , 2004, 10, 1-6.	4.6	84

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19	Hydroxyapatite/polyacrylic acid nanocrystals. <i>Journal of Materials Chemistry</i> , 1999, 9, 779-782.	6.7	83
20	Gene expression profiles during short-term heat stress in the red sea coral <i>Stylophora pistillata</i> . <i>Global Change Biology</i> , 2014, 20, 3026-3035.	9.5	81
21	Adsorption and Conformational Change of Myoglobin on Biomimetic Hydroxyapatite Nanocrystals Functionalized with Alendronate. <i>Langmuir</i> , 2008, 24, 4924-4930.	3.5	78
22	Molecular mechanism of thioredoxin regulation in photosynthetic A2B2-glyceraldehyde-3-phosphate dehydrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 11109-11114.	7.1	76
23	Polymorphism and architectural crystal assembly of calcium carbonate in biologically inspired polymeric matrices. <i>Dalton Transactions RSC</i> , 2000, , 3983-3987.	2.3	75
24	Ocean warming and acidification synergistically increase coral mortality. <i>Scientific Reports</i> , 2017, 7, 40842.	3.3	75
25	Magnesium calcite crystallization from water-alcohol mixtures. <i>Chemical Communications</i> , 1996, , 1037-1038.	4.1	74
26	Calcium Carbonate Morphology and Structure in the Presence of Seawater Ions and Humic Acids. <i>Crystal Growth and Design</i> , 2009, 9, 2065-2072.	3.0	71
27	Coral biomineralization: A focus on intra-skeletal organic matrix and calcification. <i>Seminars in Cell and Developmental Biology</i> , 2015, 46, 17-26.	5.0	71
28	C <sub>60</sub> @Lysozyme: Direct Observation by Nuclear Magnetic Resonance of a 1:1 Fullerene Protein Adduct. <i>ACS Nano</i> , 2014, 8, 1871-1877.	14.6	70
29	The Skeletal Organic Matrix from Mediterranean Coral <i>Balanophyllia europaea</i> Influences Calcium Carbonate Precipitation. <i>PLoS ONE</i> , 2011, 6, e22338.	2.5	69
30	Biomineralization control related to population density under ocean acidification. <i>Nature Climate Change</i> , 2014, 4, 593-597.	18.8	68
31	Crystallization of calcium carbonates in biologically inspired collagenous matrices. <i>Solid State Sciences</i> , 2000, 2, 455-461.	0.7	67
32	Structure and morphology of synthetic magnesium calcite. <i>Journal of Materials Chemistry</i> , 1998, 8, 1061-1065.	6.7	66
33	Effects of initial supersaturation on spontaneous precipitation of calcium carbonate in the presence of charged poly-l-amino acids. <i>Journal of Colloid and Interface Science</i> , 2010, 343, 553-563.	9.4	65
34	New Starch Phenotypes Produced by TILLING in Barley. <i>PLoS ONE</i> , 2014, 9, e107779.	2.5	59
35	Protein crystallisation on chemically modified mica surfaces. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2002, 58, 1649-1652.	2.5	58
36	Incorporation of Inorganic Anions in Calcite. <i>European Journal of Inorganic Chemistry</i> , 2004, 2004, 4579-4585.	2.0	58

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37	Influence of some polysaccharides on the production of calcium carbonate filler particles. <i>Journal of Crystal Growth</i> , 2008, 310, 4554-4560.	1.5	57
38	Conformational Selection and Folding-upon-binding of Intrinsically Disordered Protein CP12 Regulate Photosynthetic Enzymes Assembly. <i>Journal of Biological Chemistry</i> , 2012, 287, 21372-21383.	3.4	57
39	Combining mutations at genes encoding key enzymes involved in starch synthesis affects the amylose content, carbohydrate allocation and hardness in the wheat grain. <i>Plant Biotechnology Journal</i> , 2018, 16, 1723-1734.	8.3	57
40	Structural and morphological characterization of synthetic chrysotile single crystals. <i>Chemical Communications</i> , 2002, , 1512-1513.	4.1	55
41	Crystallization of calcium carbonate salts into beta-chitin scaffold. <i>Journal of Inorganic Biochemistry</i> , 2002, 91, 475-480.	3.5	55
42	Calcite Crystal Growth Kinetics in the Presence of Charged Synthetic Polypeptides. <i>Crystal Growth and Design</i> , 2009, 9, 2425-2434.	3.0	54
43	Dental Pulp Stem Cells Differentiation Reveals New Insights in Oct4A Dynamics. <i>PLoS ONE</i> , 2012, 7, e41774.	2.5	52
44	Environmental implications of skeletal micro-density and porosity variation in two scleractinian corals. <i>Zoology</i> , 2011, 114, 255-264.	1.2	49
45	Control of aragonite deposition in colonial corals by intra-skeletal macromolecules. <i>Journal of Structural Biology</i> , 2013, 183, 226-238.	2.8	47
46	Calcite crystallization on gelatin films containing polyelectrolytes. <i>Advanced Materials</i> , 1994, 6, 46-48.	21.0	44
47	Films of self-assembled purely helical type I collagen molecules. <i>Journal of Materials Chemistry</i> , 2004, 14, 2297.	6.7	44
48	Morphological and Structural Investigation of Octacalcium Phosphate Hydrolysis in the Presence of Polyacrylic Acids: Effect of Relative Molecular Weights. <i>Crystal Growth and Design</i> , 2001, 1, 239-244.	3.0	43
49	Geoinspired synthetic chrysotile nanotubes. <i>Journal of Materials Research</i> , 2006, 21, 2711-2725.	2.6	43
50	A complementary approach using analytical pyrolysis to evaluate collagen degradation and mineral fossilisation in archaeological bones: The case study of Vicenne-Campochiaro necropolis (Italy). <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 100, 173-180.	5.5	43
51	The Desorption Process of Macromolecules Adsorbed on Interfaces: The Force Spectroscopy Approach. <i>ChemPhysChem</i> , 2001, 2, 610-613.	2.1	42
52	Interaction of acidic poly-amino acids with octacalcium phosphate. <i>Journal of Inorganic Biochemistry</i> , 2003, 95, 291-296.	3.5	42
53	Coenzyme Site-directed Mutants of Photosynthetic A4-GAPDH Show Selectively Reduced NADPH-dependent Catalysis, Similar to Regulatory AB-GAPDH Inhibited by Oxidized Thioredoxin. <i>Journal of Molecular Biology</i> , 2004, 340, 1025-1037.	4.2	40
54	A Fiberlike Peptide Material Stabilized by Single Intermolecular Hydrogen Bonds. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 8075-8078.	13.8	39

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55	Glutathionylation primes soluble glyceraldehyde-3-phosphate dehydrogenase for late collapse into insoluble aggregates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 26057-26065.	7.1	39
56	Control of the architectural assembly of octacalcium phosphate crystals in denatured collagenous matrices. <i>Journal of Materials Chemistry</i> , 2000, 10, 535-538.	6.7	38
57	Nanofibers from Oxazolidinone Containing Hybrid Foldamers: What is the Right Molecular Size?. <i>Chemistry - A European Journal</i> , 2009, 15, 8037-8048.	3.3	38
58	Growth and Demography of the Solitary Scleractinian Coral <i>Leptopsammia pruvoti</i> along a Sea Surface Temperature Gradient in the Mediterranean Sea. <i>PLoS ONE</i> , 2012, 7, e37848.	2.5	37
59	Adipose Tissue-Derived Stem Cell in Vitro Differentiation in a Three-Dimensional Dental Bud Structure. <i>American Journal of Pathology</i> , 2011, 178, 2299-2310.	3.8	36
60	Effect of sodium polyacrylate on the hydrolysis of octacalcium phosphate. <i>Journal of Inorganic Biochemistry</i> , 2000, 78, 227-233.	3.5	34
61	Proteins as supramolecular hosts for $C_{60}$ : a true solution of $C_{60}$ in water. <i>Nanoscale</i> , 2018, 10, 9908-9916.	5.6	33
62	Oriented crystallization of octacalcium phosphate into beta-chitin scaffold. <i>Journal of Inorganic Biochemistry</i> , 2001, 84, 255-258.	3.5	32
63	Calcite Single Crystals as Hosts for Atomic-Scale Entrapment and Slow Release of Drugs. <i>Advanced Healthcare Materials</i> , 2015, 4, 1510-1516.	7.6	32
64	Customizing Properties of $\beta$ -Chitin in Squid Pen ( <i>Gladius</i> ) by Chemical Treatments. <i>Marine Drugs</i> , 2014, 12, 5979-5992.	4.6	31
65	Tuning Cysteine Reactivity and Sulfenic Acid Stability by Protein Microenvironment in Glyceraldehyde-3-Phosphate Dehydrogenases of <i>Arabidopsis thaliana</i> . <i>Antioxidants and Redox Signaling</i> , 2016, 24, 502-517.	5.4	31
66	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
67	Biom mineralization in Mediterranean Corals: The Role of the Intraskel etal Organic Matrix. <i>Crystal Growth and Design</i> , 2014, 14, 4310-4320.	3.0	30
68	Crystallization of proteins on functionalized surfaces. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2008, 64, 1054-1061.	2.5	29
69	The puzzling presence of calcite in skeletons of modern solitary corals from the Mediterranean Sea. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 85, 187-199.	3.9	28
70	Interaction of Bovine Serum Albumin with Chrysotile: Spectroscopic and Morphological Studies. <i>Chemistry - A European Journal</i> , 2006, 12, 1968-1974.	3.3	26
71	Polymeric admixtures effects on calcium carbonate crystallization: relevance to cement industries and biom mineralization. <i>CrystEngComm</i> , 2007, 9, 1162.	2.6	26
72	Hetero- vs Homogeneous Nucleation of Protein Crystals Discriminated by Supersaturation. <i>Crystal Growth and Design</i> , 2011, 11, 1542-1548.	3.0	26

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73	Î2-Chitin samples with similar microfibril arrangement change mechanical properties varying the degree of acetylation. <i>Carbohydrate Polymers</i> , 2019, 207, 26-33.	10.2	26
74	Coral acid rich protein selects vaterite polymorph in vitro. <i>Journal of Structural Biology</i> , 2020, 209, 107431.	2.8	26
75	Crystallographic Control of the Hydrothermal Conversion of Calcitic Sea Urchin Spine ( <i>Paracentrotus lividus</i> ) into Apatite. <i>Crystal Growth and Design</i> , 2010, 10, 5227-5232.	3.0	25
76	Crystallographic Analysis of Metal-Ion Binding to Human Ubiquitin. <i>Chemistry - A European Journal</i> , 2011, 17, 1569-1578.	3.3	25
77	<i>Arabidopsis</i> and <i>Chlamydomonas</i> phosphoribulokinase crystal structures complete the redox structural proteome of the Calvin-Benson cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 8048-8053.	7.1	25
78	Structural probing of Zn(ii), Cd(ii) and Hg(ii) binding to human ubiquitin. <i>Chemical Communications</i> , 2008, , 5960.	4.1	24
79	Mineralization of Calcium Carbonates in Gelling Media. <i>Crystal Growth and Design</i> , 2011, 11, 269-277.	3.0	24
80	Reproductive Efficiency of a Mediterranean Endemic Zooxanthellate Coral Decreases with Increasing Temperature along a Wide Latitudinal Gradient. <i>PLoS ONE</i> , 2014, 9, e91792.	2.5	24
81	Crystallization of Calcium Carbonate in Alginate and Xanthan Hydrogels. <i>Crystals</i> , 2017, 7, 355.	2.2	24
82	Hydroxyapatite synthesis from biogenic calcite single crystals into phosphate solutions at ambient conditions. <i>Journal of Crystal Growth</i> , 2009, 311, 4219-4225.	1.5	23
83	Bioinspired Nanocomposites: Ordered 2D Materials Within a 3D Lattice. <i>Advanced Functional Materials</i> , 2016, 26, 5569-5575.	14.9	23
84	A Time-Domain Nuclear Magnetic Resonance Study of Mediterranean Scleractinian Corals Reveals Skeletal-Porosity Sensitivity to Environmental Changes. <i>Environmental Science &amp; Technology</i> , 2013, 47, 12679-12686.	10.0	22
85	Shell properties of commercial clam <i>Chamelea gallina</i> are influenced by temperature and solar radiation along a wide latitudinal gradient. <i>Scientific Reports</i> , 2016, 6, 36420.	3.3	22
86	Role of CaCO <sub>3</sub> ° Neutral Pair in Calcium Carbonate Crystallization. <i>Crystal Growth and Design</i> , 2016, 16, 4173-4177.	3.0	22
87	Structural characterization of the buccal mass of <i>Ariolimax californicus</i> (Gastropoda; Tj ETQq1 1 0.784314 rgBT /Oyerlock 10 Tf 50 182	2.5	22
88	Heterogeneous Crystallization of Proteins: Is it a Prenucleation Clusters Mediated Process?. <i>Crystal Growth and Design</i> , 2013, 13, 3110-3115.	3.0	21
89	A new twist on sea silk: the peculiar protein ultrastructure of fan shell and pearl oyster byssus. <i>Soft Matter</i> , 2018, 14, 5654-5664.	2.7	21
90	Crystal nucleation and growth of spherulites demonstrated by coral skeletons and phase-field simulations. <i>Acta Biomaterialia</i> , 2021, 120, 277-292.	8.3	21

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91	Unusual pattern of embryogenesis of <i>Caryophyllia inornata</i> (scleractinia, caryophylliidae) in the mediterranean sea: Maybe agamic reproduction?. <i>Journal of Morphology</i> , 2012, 273, 943-956.	1.2	20
92	The strategic role of adsorption phenomena in biomineralization. <i>Crystal Research and Technology</i> , 2013, 48, 864-876.	1.3	20
93	Morphological and mechanical characterization of composite calcite/SWCNT-COOH single crystals. <i>Nanoscale</i> , 2013, 5, 6944.	5.6	20
94	Exploring coral biomineralization in gelling environments by means of a counter diffusion system. <i>CrystEngComm</i> , 2014, 16, 1257-1267.	2.6	20
95	Structure and Function of Stony Coral Intraskelatal Polysaccharides. <i>ACS Omega</i> , 2018, 3, 2895-2901.	3.5	19
96	Transcriptional response of the heat shock gene hsp70 aligns with differences in stress susceptibility of shallow-water corals from the Mediterranean Sea. <i>Marine Environmental Research</i> , 2018, 140, 444-454.	2.5	19
97	$\beta$ -Chitin Nanofibril Self-Assembly in Aqueous Environments. <i>Biomacromolecules</i> , 2019, 20, 2421-2429.	5.4	19
98	Formation of gels in the presence of metal ions. <i>Amino Acids</i> , 2011, 41, 609-620.	2.7	18
99	Photocatalytic activity of exfoliated graphite-TiO <sub>2</sub> nanoparticle composites. <i>Nanoscale</i> , 2019, 11, 19301-19314.	5.6	18
100	L-Phe-D-Ox: A Privileged Scaffold for the Formation of Supramolecular Materials. <i>European Journal of Organic Chemistry</i> , 2011, 2011, 3082-3088.	2.4	17
101	A peptidic hydrogel that may behave as a "Trojan Horse". <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 417-424.	2.2	17
102	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.	1.3	17
103	Latitudinal variations in biometry and population density of a Mediterranean solitary coral. <i>Limnology and Oceanography</i> , 2015, 60, 1356-1370.	3.1	17
104	Acidic Monosaccharides become Incorporated into Calcite Single Crystals**. <i>Chemistry - A European Journal</i> , 2020, 26, 16860-16868.	3.3	17
105	Analytical pyrolysis-based study on intra-skeletal organic matrices from Mediterranean corals. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 6021-6033.	3.7	16
106	Calcium carbonate crystallization in tailored constrained environments. <i>CrystEngComm</i> , 2015, 17, 5953-5961.	2.6	16
107	Effects of magnesium and temperature control on aragonite crystal aggregation and morphology. <i>CrystEngComm</i> , 2017, 19, 2451-2455.	2.6	16
108	Biochemical and Biophysical Analyses of Tissue-Engineered Bone Obtained from Three-Dimensional Culture of a Subset of Bone Marrow Mesenchymal Stem Cells. <i>Tissue Engineering - Part A</i> , 2010, 16, 3657-3667.	3.1	15

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109	Pseudopeptides Designed to Form Supramolecular Helices: The Role of the Stereogenic Centers. <i>Crystal Growth and Design</i> , 2010, 10, 923-929.	3.0	15
110	Unusual Catalysts from Molasses: Synthesis, Properties and Application in Obtaining Biofuels from Algae. <i>ChemSusChem</i> , 2012, 5, 1501-1512.	6.8	15
111	Negative response of photosynthesis to natural and projected high seawater temperatures estimated by pulse amplitude modulation fluorometry in a temperate coral. <i>Frontiers in Physiology</i> , 2015, 6, 317.	2.8	15
112	Low and variable pH decreases recruitment efficiency in populations of a temperate coral naturally present at a CO <sub>2</sub> vent. <i>Limnology and Oceanography</i> , 2019, 64, 1059-1069.	3.1	15
113	Skeletal mechanical properties of Mediterranean corals along a wide latitudinal gradient. <i>Coral Reefs</i> , 2015, 34, 121-132.	2.2	14
114	The down-regulation of the genes encoding Isoamylase 1 alters the starch composition of the durum wheat grain. <i>Plant Science</i> , 2016, 252, 230-238.	3.6	14
115	Influence of intra-skeletal coral lipids on calcium carbonate precipitation. <i>CrystEngComm</i> , 2016, 18, 8829-8833.	2.6	14
116	Relationships between growth, population dynamics, and environmental parameters in the solitary non-zooxanthellate scleractinian coral <i>Caryophyllia inornata</i> along a latitudinal gradient in the Mediterranean Sea. <i>Coral Reefs</i> , 2016, 35, 507-519.	2.2	14
117	Functional Biocompatible Matrices from Mussel Byssus Waste. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 57-65.	5.2	14
118	Effect of Surface Chemistry on Incorporation of Nanoparticles within Calcite Single Crystals. <i>Crystal Growth and Design</i> , 2019, 19, 4429-4435.	3.0	14
119	High Amino Acid Lattice Loading at Nonambient Conditions Causes Changes in Structure and Expansion Coefficient of Calcite. <i>Chemistry of Materials</i> , 2020, 32, 4205-4212.	6.7	14
120	Unravelling the shape and structural assembly of the photosynthetic GAPDH-CP12-PRK complex from <i>Arabidopsis thaliana</i> by small-angle X-ray scattering analysis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2015, 71, 2372-2385.	2.5	13
121	Polypeptide effect on Mg <sup>2+</sup> hydration inferred from CaCO <sub>3</sub> formation: a biomineralization study by counter-diffusion. <i>CrystEngComm</i> , 2016, 18, 3265-3272.	2.6	13
122	Exploitation of mussel byssus mariculture waste as a water remediation material. <i>RSC Advances</i> , 2017, 7, 36605-36611.	3.6	13
123	Supramolecular Hydrogels with Properties Tunable by Calcium Ions: A Bio-Inspired Chemical System. <i>ACS Applied Bio Materials</i> , 2019, 2, 5819-5828.	4.6	13
124	New Material Perspective for Waste Seashells by Covalent Functionalization. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6203-6208.	6.7	13
125	Influence of proteins on mechanical properties of a natural chitin-protein composite. <i>Acta Biomaterialia</i> , 2021, 120, 81-90.	8.3	13
126	The activity of nanopowder and mesoporous titanium catalysts for the analysis of fatty acids in triglycerides by pyrolysis methylation with dimethyl carbonate. <i>Journal of Analytical and Applied Pyrolysis</i> , 2008, 82, 248-254.	5.5	12



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127	Synthesis of calcium carbonate in trace water environments. <i>Chemical Communications</i> , 2017, 53, 4811-4814.	4.1	12
128	Graphene Materials Strengthen Aqueous Polyurethane Adhesives. <i>ACS Omega</i> , 2018, 3, 8829-8835.	3.5	12
129	Structural and functional insights into nitrosogluthathione reductase from <i>Chlamydomonas reinhardtii</i> . <i>Redox Biology</i> , 2021, 38, 101806.	9.0	12
130	Shaping Calcite Crystals by Means of Comb Polyelectrolytes Having Neutral Hydrophilic Teeth. <i>Langmuir</i> , 2013, 29, 1938-1947.	3.5	11
131	Calcifying Response and Recovery Potential of the Brown Alga <i>Padina pavonica</i> under Ocean Acidification. <i>ACS Earth and Space Chemistry</i> , 2017, 1, 316-323.	2.7	11
132	Retinoic acid/calcite micro-carriers inserted in fibrin scaffolds modulate neuronal cell differentiation. <i>Journal of Materials Chemistry B</i> , 2019, 7, 5808-5813.	5.8	11
133	Structural Control Over the Formation of Calcium Carbonate Mineral Phases in Biomineralization. , 1995, , 127-139.		11
134	Linking Internal Carbonate Chemistry Regulation and Calcification in Corals Growing at a Mediterranean CO <sub>2</sub> Vent. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	11
135	Reproduction of an azooxanthellate coral is unaffected by ocean acidification. <i>Scientific Reports</i> , 2017, 7, 13049.	3.3	10
136	A Plant Bioreactor for the Synthesis of Carbon Nanotube Bionic Nanocomposites. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 560349.	4.1	10
137	Annual Reproductive Cycle and Unusual Embryogenesis of a Temperate Coral in the Mediterranean Sea. <i>PLoS ONE</i> , 2015, 10, e0141162.	2.5	10
138	Coral micro- and macro-morphological skeletal properties in response to life-long acclimatization at CO <sub>2</sub> vents in Papua New Guinea. <i>Scientific Reports</i> , 2021, 11, 19927.	3.3	10
139	Bionic synthesis of a magnetic calcite skeletal structure through living foraminifera. <i>Materials Horizons</i> , 2019, 6, 1862-1867.	12.2	9
140	Synthesis and Adsorbing Properties of Tabular {001} Calcite Crystals. <i>Crystals</i> , 2019, 9, 16.	2.2	9
141	Mechanical adaptation of brachiopod shells via hydration-induced structural changes. <i>Nature Communications</i> , 2021, 12, 5383.	12.8	9
142	Calcite Morphology and Aggregation in the Presence of Comb-like Polymers Adsorbed on Cement Particles. <i>Crystal Growth and Design</i> , 2009, 9, 2240-2247.	3.0	8
143	Structural Changes in a Protein Fragment from Abalone Shell during the Precipitation of Calcium Carbonate. <i>Chemistry - A European Journal</i> , 2012, 18, 14367-14374.	3.3	8
144	Inferred calcification rate of a temperate azooxanthellate caryophylliid coral along a wide latitudinal gradient. <i>Coral Reefs</i> , 2016, 35, 919-928.	2.2	8

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145	Ecological relevance of skeletal fatty acid concentration and composition in Mediterranean scleractinian corals. <i>Scientific Reports</i> , 2017, 7, 1929.	3.3	8
146	Non-stoichiometric hydrated magnesium-doped calcium carbonate precipitation in ethanol. <i>Chemical Communications</i> , 2019, 55, 12944-12947.	4.1	8
147	Crystallization and preliminary X-ray diffraction analysis of two ribosome-inactivating proteins: lychnin and dianthin 30. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2003, 59, 1227-1229.	2.5	7
148	Calcium phosphate scaffold from biogenic calcium carbonate by fast ambient condition reactions. <i>Journal of Crystal Growth</i> , 2011, 336, 50-55.	1.5	7
149	Shaping calcite crystals by customized self-assembling pseudopeptide foldamers. <i>CrystEngComm</i> , 2015, 17, 116-123.	2.6	7
150	Insights on the interaction of calcein with calcium carbonate and its implications in biomineralization studies. <i>CrystEngComm</i> , 2018, 20, 4221-4224.	2.6	7
151	Green Biocompatible Method for the Synthesis of Collagen/Chitin Composites to Study Their Composition and Assembly Influence on Fibroblasts Growth. <i>Biomacromolecules</i> , 2021, 22, 3357-3365.	5.4	7
152	Water Remediation from Pollutant Agents by the Use of an Environmentally Friendly Supramolecular Hydrogel. <i>ChemNanoMat</i> , 2022, 8, .	2.8	7
153	A Network of Small Molecules Connected by Cross-Linked NH Bonds. <i>Crystal Growth and Design</i> , 2010, 10, 244-251.	3.0	6
154	Solid-State Properties and Vibrational Circular Dichroism Spectroscopy in Solution of Hybrid Foldamers Stereoisomeric Mixtures. <i>ChemPlusChem</i> , 2014, 79, 114-121.	2.8	6
155	Morphological changes of calcite single crystals induced by graphene-biomolecule adducts. <i>Journal of Crystal Growth</i> , 2017, 457, 356-361.	1.5	6
156	Delivery systems for agriculture: Fe-EDDHSA/CaCO <sub>3</sub> hybrid crystals as adjuvants for prevention of iron chlorosis. <i>Chemical Communications</i> , 2018, 54, 1635-1638.	4.1	6
157	In Vitro Coral Biomineralization under Relevant Aragonite Supersaturation Conditions. <i>Chemistry - A European Journal</i> , 2019, 25, 10616-10624.	3.3	6
158	Role of Hydrodynamics, Li <sup>+</sup> Addition and Transformation Kinetics on the Formation of Plate-Like {001} Calcite Crystals. <i>Crystals</i> , 2021, 11, 250.	2.2	6
159	Rhodium/Graphite-Catalyzed Hydrogenation of Carbocyclic and Heterocyclic Aromatic Compounds. <i>Synthesis</i> , 2009, 2009, 2440-2446.	2.3	5
160	Kinetic Approach to Biomineralization: Interactions of Synthetic Polypeptides with Calcium Carbonate Polymorphs. <i>Croatica Chemica Acta</i> , 2011, 84, 301-314.	0.4	5
161	Conformational Selection of Ubiquitin Quaternary Structures Driven by Zinc Ions. <i>Chemistry - A European Journal</i> , 2013, 19, 15480-15484.	3.3	5
162	Growth, population dynamics, and reproductive output model of the non-zooxanthellate temperate solitary coral <i>Caryophyllia inornata</i> (Scleractinia, Caryophylliidae). <i>Limnology and Oceanography</i> , 2017, 62, 1111-1121.	3.1	5

#	ARTICLE	IF	CITATIONS
163	Hierarchical chitinous matrices byssus-inspired with mechanical properties tunable by Fe(III) and oxidation. <i>Carbohydrate Polymers</i> , 2021, 251, 116984.	10.2	5
164	Metal ion removal using waste byssus from aquaculture. <i>Scientific Reports</i> , 2020, 10, 22222.	3.3	5
165	Reproductive output of a non-zooxanthellate temperate coral is unaffected by temperature along an extended latitudinal gradient. <i>PLoS ONE</i> , 2017, 12, e0171051.	2.5	5
166	Fluorine Effect in the Gelation Ability of Low Molecular Weight Gelators. <i>Gels</i> , 2022, 8, 98.	4.5	5
167	Acellular Bone Colonization and Aggregate Culture Conditions Diversely Influence Murine Periosteum Mesenchymal Stem Cell Differentiation Potential in Long-Term In Vitro Osteoinductive Conditions. <i>Tissue Engineering - Part A</i> , 2012, 18, 1509-1519.	3.1	4
168	Beyond biotemplating: multiscale porous inorganic materials with high catalytic efficiency. <i>Chemical Communications</i> , 2020, 56, 3389-3392.	4.1	4
169	Doxorubicin-Loaded Squid Pen Plaster: A Natural Drug Delivery System for Cancer Cells. <i>ACS Applied Bio Materials</i> , 2020, 3, 1514-1519.	4.6	4
170	Decreasing <math>pH</math> impairs sexual reproduction in a Mediterranean coral transplanted at a <math>CO_2</math> vent. <i>Limnology and Oceanography</i> , 2021, 66, 3990-4000.	3.1	4
171	Morphology and organization of the internal shell of <i>Ariolimax californicus</i> (Gastropoda); <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50</i> 2021, 213, 107764.	2.8	4
172	Exploring Coral Calcification by Calcium Carbonate Overgrowth Experiments. <i>Crystal Growth and Design</i> , 2022, 22, 5045-5053.	3.0	4
173	A new method for the detection of low levels of free fibres of chrysotile in contaminated soils by X-ray powder diffraction. <i>Journal of Environmental Monitoring</i> , 2003, 5, 654.	2.1	3
174	The Influence of a Protein Fragment Extracted from Abalone Shell Green Layer on the Precipitation of Calcium Carbonate Polymorphs in Aqueous Media. <i>Croatica Chemica Acta</i> , 2013, 86, 39-47.	0.4	3
175	Crystallization of $CaCO_3$ in the Presence of Ethanolamine Reveals Transient Meso-like Crystals. <i>Crystal Growth and Design</i> , 2014, 14, 5922-5928.	3.0	3
176	Induced Nucleation of Biomimetic Nanoapatites on Exfoliated Graphene Biomolecule Flakes by Vapor Diffusion in Microdroplets. <i>Crystals</i> , 2019, 9, 341.	2.2	3
177	Mechanical properties of <i>Chamelea gallina</i> shells at different latitudes. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 94, 155-163.	3.1	3
178	Local Light-Controlled Generation of Calcium Carbonate and Barium Carbonate Biomorphs via Photochemical Stimulation. <i>Chemistry - A European Journal</i> , 2021, 27, 12521-12525.	3.3	3
179	A non-lethal method to assess element content in the endangered <i>Pinna nobilis</i> . <i>Scientific Reports</i> , 2021, 11, 19244.	3.3	3
180	Photoacoustics: a novel application to the determination of photosynthetic efficiency in zooxanthellate hermatypes. <i>Limnology and Oceanography: Methods</i> , 2013, 11, 374-381.	2.0	2

#	ARTICLE	IF	CITATIONS
181	Biological Crystallization. Crystals, 2019, 9, 409.	2.2	2
182	Climate variation during the Holocene influenced the skeletal properties of Chamelea gallina shells in the North Adriatic Sea (Italy). PLoS ONE, 2021, 16, e0247590.	2.5	2
183	Multiscale analysis on otolith structural features reveals differences in ontogenesis and sex in <i>Merluccius merluccius</i> in the western Adriatic Sea. Royal Society Open Science, 2022, 9, .	2.4	2
184	Mathematical form factor studies on the effect of water on airborne particles morphology using a bi-dimensional TEM image processing. Journal of Environmental Monitoring, 2009, 11, 181-186.	2.1	1
185	Aggregation Pathways of Native-Like Ubiquitin Promoted by Single-Point Mutation, Metal Ion Concentration, and Dielectric Constant of the Medium. Chemistry - A European Journal, 2018, 24, 4140-4148.	3.3	1
186	The skeleton of Balanophyllia coral species suggests adaptive traits linked to the onset of mixotrophy. Science of the Total Environment, 2021, 795, 148778.	8.0	1
187	Influence on the SBA-3 Structure by Alkaline or Alkaline Earth Ions. Chemistry Letters, 2008, 37, 414-415.	1.3	0
188	Preface " ECCG5. Journal of Crystal Growth, 2017, 457, 1.	1.5	0
189	Vapour Diffusion Route to Mineralize Graphene and Polymer Surfaces with Calcium Phosphate Intended for Biomedical Applications. Key Engineering Materials, 0, 758, 210-214.	0.4	0
190	Cholesterol derivatives make large part of the lipids from epidermal molts of the desert-adapted Gila monster lizard ( <i>Heloderma suspectum</i> ). Scientific Reports, 2020, 10, 17197.	3.3	0
191	Turning Seashell Waste into Electrically Conductive Particles. International Journal of Molecular Sciences, 2022, 23, 7256.	4.1	0