Fiona C Meldrum

List of Publications by Year
in descending order

166 papers	14,131 citations	20817 60 h-index	20961 115 g-index
171 all docs	171 docs citations	171 times ranked	12604 citing authors

#	Article	IF	Citations
1	Crystallization by particle attachment in synthetic, biogenic, and geologic environments. Science, 2015, 349, aaa6760.	12.6	1,467
2	Controlling Mineral Morphologies and Structures in Biological and Synthetic Systems. Chemical Reviews, 2008, 108, 4332-4432.	47.7	1,222
3	The Colloid Chemical Approach to Nanostructured Materials. Advanced Materials, 1995, 7, 607-632.	21.0	745
4	The role of magnesium in stabilising amorphous calcium carbonate and controlling calcite morphologies. Journal of Crystal Growth, 2003, 254, 206-218.	1.5	506
5	Calcium carbonate in biomineralisation and biomimetic chemistry. International Materials Reviews, 2003, 48, 187-224.	19.3	455
6	Synthesis of inorganic nanophase materials in supramolecular protein cages. Nature, 1991, 349, 684-687.	27.8	449
7	Structure-property relationships of a biological mesocrystal in the adult sea urchin spine. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3699-3704.	7.1	277
8	Dehydration and crystallization of amorphous calcium carbonate in solution and in air. Nature Communications, 2014, 5, 3169.	12.8	265
9	Morphological influence of magnesium and organic additives on the precipitation of calcite. Journal of Crystal Growth, 2001, 231, 544-558.	1.5	257
10	An artificial biomineral formed by incorporation of copolymer micelles in calcite crystals. Nature Materials, 2011, 10, 890-896.	27.5	248
11	Continuous Structural Evolution of Calcium Carbonate Particles:Â A Unifying Model of Copolymer-Mediated Crystallization. Journal of the American Chemical Society, 2007, 129, 3729-3736.	13.7	240
12	Epitaxial Growth of Size-Quantized Cadmium Sulfide Crystals Under Arachidic Acid Monolayers. The Journal of Physical Chemistry, 1995, 99, 5500-5504.	2.9	208
13	Reconstitution of manganese oxide cores in horse spleen and recombinant ferritins. Journal of Inorganic Biochemistry, 1995, 58, 59-68.	3.5	187
14	Tuning hardness in calcite by incorporation of amino acids. Nature Materials, 2016, 15, 903-910.	27.5	183
15	Synthesis-dependant structural variations in amorphous calcium carbonate. CrystEngComm, 2007, 9, 1226.	2.6	164
16	Crystallization in Confinement. Advanced Materials, 2020, 32, e2001068.	21.0	158
17	Amorphous Calcium Carbonate is Stabilized in Confinement. Advanced Functional Materials, 2010, 20, 2108-2115.	14.9	157
18	Synthesis of Single Crystals of Calcite with Complex Morphologies. Advanced Materials, 2002, 14, 1167.	21.0	153

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19	Precipitation of Calcium Carbonate in Confinement. Advanced Functional Materials, 2004, 14, 1211-1220.	14.9	145
20	A new precipitation pathway for calcium sulfate dihydrate (gypsum) via amorphous and hemihydrate intermediates. Chemical Communications, 2012, 48, 504-506.	4.1	143
21	Three-dimensional imaging of dislocation propagation during crystal growth and dissolution. Nature Materials, 2015, 14, 780-784.	27.5	143
22	Think Positive: Phase Separation Enables a Positively Charged Additive to Induce Dramatic Changes in Calcium Carbonate Morphology. Advanced Functional Materials, 2012, 22, 907-915.	14.9	128
23	Controlling the fluorescence and room-temperature phosphorescence behaviour of carbon nanodots with inorganic crystalline nanocomposites. Nature Communications, 2019, 10, 206.	12.8	128
24	Bioâ€Inspired Synthesis and Mechanical Properties of Calciteâ€"Polymer Particle Composites. Advanced Materials, 2010, 22, 2082-2086.	21.0	122
25	A critical analysis of calcium carbonate mesocrystals. Nature Communications, 2014, 5, 4341.	12.8	122
26	Utilization of Surfactant-Stabilized Colloidal Silver Nanocrystallites in the Construction of Mono- and Multiparticulate Langmuir-Blodgett Films. Langmuir, 1994, 10, 2035-2040.	3.5	114
27	Control of calcium carbonate morphology by transformation of an amorphous precursor in a constrained volume. Chemical Communications, 2001, , 901-902.	4.1	114
28	Elucidating Mechanisms of Diffusionâ€Based Calcium Carbonate Synthesis Leads to Controlled Mesocrystal Formation. Advanced Functional Materials, 2013, 23, 1965-1973.	14.9	114
29	Porous gold structures through templating by echinoid skeletal plates. Chemical Communications, 2000, , 29-30.	4.1	111
30	Study of Calcium Carbonate Precipitation under a Series of Fatty Acid Langmuir Monolayers Using Brewster Angle Microscopy. Langmuir, 2003, 19, 2830-2837.	3.5	110
31	Direct observation of mineralâ€"organic composite formation reveals occlusion mechanism. Nature Communications, 2016, 7, 10187.	12.8	110
32	Monoparticulate Layers of Titanium Dioxide Nanocrystallites with Controllable Interparticle Distances. The Journal of Physical Chemistry, 1994, 98, 8827-8830.	2.9	106
33	Early Stages of Crystallization of Calcium Carbonate Revealed in Picoliter Droplets. Journal of the American Chemical Society, 2011, 133, 5210-5213.	13.7	105
34	Nanostructured Calcite Single Crystals with Gyroid Morphologies. Advanced Materials, 2009, 21, 3928-3932.	21.0	103
35	Now You See Them. Science, 2008, 322, 1802-1803.	12.6	101
36	Nanoscale Confinement Controls the Crystallization of Calcium Phosphate: Relevance to Bone Formation. Chemistry - A European Journal, 2013, 19, 14918-14924.	3.3	95

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37	The Effect of Additives on Amorphous Calcium Carbonate (ACC): Janus Behavior in Solution and the Solid State. Advanced Functional Materials, 2013, 23, 1575-1585.	14.9	95
38	Chemical Deposition of PbS on Self-Assembled Monolayers of 16-Mercaptohexadecanoic Acid. Langmuir, 1997, 13, 2033-2049.	3.5	93
39	Capillarity Creates Singleâ€Crystal Calcite Nanowires from Amorphous Calcium Carbonate. Angewandte Chemie - International Edition, 2011, 50, 12572-12577.	13.8	90
40	Intermolecular channels direct crystal orientation in mineralized collagen. Nature Communications, 2020, 11, 5068.	12.8	90
41	A solvothermal route to capped nanoparticles of Î³-Fe2O3 and CoFe2O4. Journal of Materials Chemistry, 2001, 11, 3215-3221.	6.7	87
42	High-speed imaging of ice nucleation in water proves the existence of active sites. Science Advances, 2019, 5, eaav4316.	10.3	87
43	Spreading of Clay Organocomplexes on Aqueous Solutions: Construction of Langmuir-Blodgett Clay Organocomplex Multilayer Films. Langmuir, 1994, 10, 3797-3804.	3.5	85
44	Is Ice Nucleation from Supercooled Water Insensitive to Surface Roughness?. Journal of Physical Chemistry C, 2015, 119, 1164-1169.	3.1	85
45	Overproduction, purification and characterization of the Escherichia coli ferritin. FEBS Journal, 1993, 218, 985-995.	0.2	82
46	Synthesis of controlled-structure sulfate-based copolymers via atom transfer radical polymerisation and their use as crystal habit modifiers for BaSO4. Journal of Materials Chemistry, 2002, 12, 890-896.	6.7	79
47	One-pot synthesis of an inorganic heterostructure: uniform occlusion of magnetite nanoparticles within calcite single crystals. Chemical Science, 2014, 5, 738-743.	7.4	75
48	Bioskeletons as Templates for Ordered, Macroporous Structures. Advanced Materials, 2000, 12, 1149-1151.	21.0	74
49	Additives stabilize calcium sulfate hemihydrate (bassanite) in solution. Journal of Materials Chemistry, 2012, 22, 22055.	6.7	73
50	Designer Crystals:Â Single Crystals with Complex Morphologies. Chemistry of Materials, 2007, 19, 1111-1119.	6.7	72
51	Systematic Study of the Effects of Polyamines on Calcium Carbonate Precipitation. Chemistry of Materials, 2014, 26, 2703-2711.	6.7	72
52	Shape-constraint as a route to calcite single crystals with complex morphologies. Journal of Materials Chemistry, 2004, 14, 2291.	6.7	71
53	The role of poly(aspartic acid) in the precipitation of calcium phosphate in confinement. Journal of Materials Chemistry B, 2013, 1, 6586.	5.8	67
54	Occlusion of Sulfate-Based Diblock Copolymer Nanoparticles within Calcite: Effect of Varying the Surface Density of Anionic Stabilizer Chains. Journal of the American Chemical Society, 2016, 138, 11734-11742.	13.7	67

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55	Combinatorial microfluidic droplet engineering for biomimetic material synthesis. Science Advances, 2016, 2, e1600567.	10.3	67
56	Observing the formation of ice and organic crystals in active sites. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 810-815.	7.1	66
57	High-Magnesian Calcite Mesocrystals: A Coordination Chemistry Approach. Journal of the American Chemical Society, 2012, 134, 1367-1373.	13.7	65
58	Structure and Properties of Nanocomposites Formed by the Occlusion of Block Copolymer Worms and Vesicles Within Calcite Crystals. Advanced Functional Materials, 2016, 26, 1382-1392.	14.9	63
59	The role of phase separation and related topography in the exceptional ice-nucleating ability of alkali feldspars. Physical Chemistry Chemical Physics, 2017, 19, 31186-31193.	2.8	63
60	Model Anionic Block Copolymer Vesicles Provide Important Design Rules for Efficient Nanoparticle Occlusion within Calcite. Journal of the American Chemical Society, 2019, 141, 2557-2567.	13.7	63
61	In Situ Study of the Precipitation and Crystallization of Amorphous Calcium Carbonate (ACC). Crystal Growth and Design, 2012, 12, 1212-1217.	3.0	61
62	Confinement generates single-crystal aragonite rods at room temperature. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7670-7675.	7.1	61
63	Controlled synthesis of inorganic materials using supramolecular assemblies. Advanced Materials, 1991, 3, 316-318.	21.0	60
64	Characterization of the manganese core of reconstituted ferritin by x-ray absorption spectroscopy. Journal of the American Chemical Society, 1993, 115, 8471-8472.	13.7	60
65	Freeze-drying yields stable and pure amorphous calcium carbonate (ACC). Chemical Communications, 2013, 49, 3134.	4.1	60
66	Oxygen Spectroscopy and Polarization-Dependent Imaging Contrast (PIC)-Mapping of Calcium Carbonate Minerals and Biominerals. Journal of Physical Chemistry B, 2014, 118, 8449-8457.	2.6	60
67	A solvothermal route to capped CdSe nanoparticles. Chemical Communications, 2001, , 629-630.	4.1	58
68	Phosphonic Acid-Functionalized Diblock Copolymer Nano-Objects via Polymerization-Induced Self-Assembly: Synthesis, Characterization, and Occlusion into Calcite Crystals. Macromolecules, 2016, 49, 192-204.	4.8	58
69	Confinement Leads to Control over Calcium Sulfate Polymorph. Advanced Functional Materials, 2013, 23, 5615-5623.	14.9	56
70	Profiting from nature: macroporous copper with superior mechanical properties. Chemical Communications, 2007, , 3547.	4.1	53
71	Precipitation of Amorphous Calcium Oxalate in Aqueous Solution. Chemistry of Materials, 2015, 27, 3999-4007.	6.7	53
72	Two-dimensional silver electrocrystallization under monolayers spread on aqueous silver nitrate. Langmuir, 1993, 9, 3710-3716.	3.5	52

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73	Structural and physiological effects of calcium and magnesium in Emiliania huxleyi (Lohmann) Hay and Mohler. Journal of Structural Biology, 2004, 148, 307-314.	2.8	49
74	Topographical Control of Crystal Nucleation. Crystal Growth and Design, 2012, 12, 750-755.	3.0	49
75	Confinement Increases the Lifetimes of Hydroxyapatite Precursors. Chemistry of Materials, 2014, 26, 5830-5838.	6.7	48
76	Colouring crystals with inorganic nanoparticles. Chemical Communications, 2014, 50, 67-69.	4.1	48
77	Macroporous inorganic solids from a biomineral template. Journal of Crystal Growth, 2006, 294, 69-77.	1.5	47
78	Polymer-induced liquid precursor (PILP) phases of calcium carbonate formed in the presence of synthetic acidic polypeptidesâ€"relevance to biomineralization. Faraday Discussions, 2012, 159, 327.	3.2	47
79	The Effect of Additives on the Early Stages of Growth of Calcite Single Crystals. Angewandte Chemie - International Edition, 2017, 56, 11885-11890.	13.8	46
80	Template-Directed Control of Crystal Morphologies. Macromolecular Bioscience, 2007, 7, 152-162.	4.1	44
81	Formation of patterned PbS and ZnS films on self-assembled monolayers. Thin Solid Films, 1999, 348, 188-195.	1.8	43
82	Calcium carbonate polymorph control using droplet-based microfluidics. Biomicrofluidics, 2012, 6, 22001-2200110.	2.4	43
83	Confinement stabilises single crystal vaterite rods. Chemical Communications, 2014, 50, 4729-4732.	4.1	43
84	Hydroxyl-rich macromolecules enable the bio-inspired synthesis of single crystal nanocomposites. Nature Communications, 2019, 10, 5682.	12.8	43
85	Gold Particulate Film Formation under Monolayers. The Journal of Physical Chemistry, 1995, 99, 9869-9875.	2.9	42
86	Growth of single crystals in structured templates. Journal of Materials Chemistry, 2006, 16, 408-416.	6.7	41
87	Strain-relief by single dislocation loops in calcite crystals grown on self-assembled monolayers. Nature Communications, 2016, 7, 11878.	12.8	41
88	The Crystal Hotel: A Microfluidic Approach to Biomimetic Crystallization. Advanced Materials, 2015, 27, 7395-7400.	21.0	40
89	3D visualization of additive occlusion and tunable full-spectrum fluorescence in calcite. Nature Communications, 2016, 7, 13524.	12.8	40
90	Anisotropic nano-papier mache microcapsules. Soft Matter, 2007, 3, 188-190.	2.7	39

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91	Formation and Structure of Calcium Carbonate Thin Films and Nanofibers Precipitated in the Presence of Poly(Allylamine Hydrochloride) and Magnesium Ions. Chemistry of Materials, 2013, 25, 4994-5003.	6.7	39
92	Chemical deposition of PbS on a series of Ï‰-functionalised self-assembled monolayers. Journal of Materials Chemistry, 1999, 9, 711-723.	6.7	37
93	Anionic block copolymer vesicles act as Trojan horses to enable efficient occlusion of guest species into host calcite crystals. Chemical Science, 2018, 9, 8396-8401.	7.4	37
94	What Dictates the Spatial Distribution of Nanoparticles within Calcite?. Journal of the American Chemical Society, 2019, 141, 2481-2489.	13.7	37
95	Crystallization on Surfaces of Well-Defined Topography. Langmuir, 2006, 22, 1955-1958.	3.5	36
96	Porous Single Crystals of Calcite from Colloidal Crystal Templates: ACC Is Not Required for Nanoscale Templating. Advanced Functional Materials, 2011, 21, 948-954.	14.9	36
97	Amino Acid Assisted Incorporation of Dye Molecules within Calcite Crystals. Angewandte Chemie - International Edition, 2018, 57, 8623-8628.	13.8	36
98	Bio-inspired formation of functional calcite/metal oxide nanoparticle composites. Nanoscale, 2014, 6, 852-859.	5.6	35
99	Spatially Controlled Occlusion of Polymerâ€Stabilized Gold Nanoparticles within ZnO. Angewandte Chemie - International Edition, 2019, 58, 4302-4307.	13.8	35
100	Bioinspired Polymerâ€“Inorganic Hybrid Materials. Advanced Materials, 2006, 18, 2270-2273.	21.0	33
101	Efficient Selection of Biomineralizing DNA Aptamers Using Deep Sequencing and Population Clustering. ACS Nano, 2014, 8, 387-395.	14.6	33
102	Bioinspired Synthesis of Large-Pore, Mesoporous Hydroxyapatite Nanocrystals for the Controlled Release of Large Pharmaceutics. Crystal Growth and Design, 2015, 15, 723-731.	3.0	32
103	Biomineralization: Biomimetic Potential at the Inorganic-Organic Interface. MRS Bulletin, 1992, 17, 32-36.	3.5	31
104	Substrate-directed formation of calcium carbonate fibres. Journal of Materials Chemistry, 2009, 19, 387-398.	6.7	31
105	Droplet Microfluidics XRD Identifies Effective Nucleating Agents for Calcium Carbonate. Advanced Functional Materials, 2019, 29, 1808172.	14.9	31
106	Passive Picoinjection Enables Controlled Crystallization in a Droplet Microfluidic Device. Small, 2017, 13, 1702154.	10.0	29
107	Influence of Membrane Composition on the Intravesicular Precipitation of Nanophase Gold Particles. Journal of Colloid and Interface Science, 1993, 161, 66-71.	9.4	28
108	Formation of Thin Films of Platinum, Palladium, and Mixed Platinum: Palladium Nanocrystallites by the Langmuir Monolayer Technique. Chemistry of Materials, 1995, 7, 1112-1116.	6.7	27

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109	The use of cationic surfactants to control the structure of zinc oxide films prepared by chemical vapour deposition. Chemical Communications, 2012, 48, 1490-1492.	4.1	27
110	How Many Phosphoric Acid Units Are Required to Ensure Uniform Occlusion of Sterically Stabilized Nanoparticles within Calcite?. Angewandte Chemie - International Edition, 2019, 58, 8692-8697.	13.8	27
111	Visualization of the effect of additives on the nanostructures of individual bio-inspired calcite crystals. Chemical Science, 2019, 10, 1176-1185.	7.4	26
112	Polymer-Directed Assembly of Single Crystal Zinc Oxide/Magnetite Nanocomposites under Atmospheric and Hydrothermal Conditions. Chemistry of Materials, 2016, 28, 7528-7536.	6.7	25
113	Rapid Screening of Calcium Carbonate Precipitation in the Presence of Amino Acids: Kinetics, Structure, and Composition. Crystal Growth and Design, 2016, 16, 5174-5183.	3.0	24
114	Rapid preparation of highly reliable PDMS double emulsion microfluidic devices. RSC Advances, 2016, 6, 25927-25933.	3.6	24
115	Synchrotron FTIR mapping of mineralization in a microfluidic device. Lab on A Chip, 2017, 17, 1616-1624.	6.0	24
116	Epitaxy of Calcite on Mica. Crystal Growth and Design, 2010, 10, 734-738.	3.0	23
117	Effect of Nanoscale Confinement on the Crystallization of Potassium Ferrocyanide. Crystal Growth and Design, 2016, 16, 5403-5411.	3.0	22
118	Using Confinement To Study the Crystallization Pathway of Calcium Carbonate. Crystal Growth and Design, 2017, 17, 6787-6792.	3.0	22
119	Influence of the Structure of Block Copolymer Nanoparticles on the Growth of Calcium Carbonate. Chemistry of Materials, 2018, 30, 7091-7099.	6.7	22
120	Active sites for ice nucleation differ depending on nucleation mode. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	22
121	Particles on Melt-Cut Mica Sheets Are Platinum. Langmuir, 2003, 19, 975-976.	3.5	21
122	Solid state crystallization of amorphous calcium carbonate nanoparticles leads to polymorph selectivity. CrystEngComm, 2013, 15, 697-705.	2.6	21
123	Synthesis of Macroporous Calcium Carbonate/Magnetite Nanocomposites and their Application in Photocatalytic Water Splitting. Small, 2011, 7, 2168-2172.	10.0	20
124	Physical Confinement Promoting Formation of Cu₂Oâ€"Au Heterostructures with Au Nanoparticles Entrapped within Crystalline Cu₂O Nanorods. Chemistry of Materials, 2017, 29, 555-563.	6.7	20
125	Combinatorial Evolution of Biomimetic Magnetite Nanoparticles. Advanced Functional Materials, 2017, 27, 1604863.	14.9	19
126	Crystallization and formation mechanisms of nanostructures. Nanoscale, 2010, 2, 2326.	5.6	18

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127	Efficient occlusion of oil droplets within calcite crystals. Chemical Science, 2019, 10, 8964-8972.	7.4	18
128	Ptychographic X-ray tomography reveals additive zoning in nanocomposite single crystals. Chemical Science, 2020, 11, 355-363.	7.4	17
129	Characterization of Preferred Crystal Nucleation Sites on Mica Surfaces. Crystal Growth and Design, 2013, 13, 1915-1925.	3.0	16
130	A reproducible approach to the assembly of microcapillaries for double emulsion production. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	16
131	Genetic Algorithmâ€Guided Discovery of Additive Combinations That Direct Quantum Dot Assembly. Advanced Materials, 2015, 27, 223-227.	21.0	14
132	Ultra-thin particulate films prepared from capped and uncapped reverse-micelle-entrapped silver particles. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 673.	1.7	12
133	Simple Photosystem II Water Oxidation Centre Analogues in Visible Light Oxygen and H⁺ Generation. Small, 2013, 9, 61-66.	10.0	12
134	The Effect of Additives on the Early Stages of Growth of Calcite Single Crystals. Angewandte Chemie, 2017, 129, 12047-12052.	2.0	12
135	Dynamic Crystallization Pathways of Polymorphic Pharmaceuticals Revealed in Segmented Flow with Inline Powder X-ray Diffraction. Analytical Chemistry, 2020, 92, 7754-7761.	6.5	12
136	Incorporation of nanogels within calcite single crystals for the storage, protection and controlled release of active compounds. Chemical Science, 2021, 12, 9839-9850.	7.4	12
137	Exploiting Confinement to Study the Crystallization Pathway of Calcium Sulfate. Advanced Functional Materials, 2021, 31, 2107312.	14.9	11
138	Skin-Deep Surface Patterning of Calcite. Chemistry of Materials, 2019, 31, 8725-8733.	6.7	10
139	An innovative data processing method for studying nanoparticle formation in droplet microfluidics using X-rays scattering. Lab on A Chip, 2021, 21, 4498-4506.	6.0	10
140	Magnesium Ions Direct the Solidâ€State Transformation of Amorphous Calcium Carbonate Thin Films to Aragonite, Magnesiumâ€Calcite, or Dolomite. Advanced Functional Materials, 2022, 32, .	14.9	10
141	Positively Charged Additives Facilitate Incorporation in Inorganic Single Crystals. Chemistry of Materials, 2022, 34, 4910-4923.	6.7	10
142	Biopolymer stabilized nanoparticles as co-catalysts for photocatalytic water oxidations. Polymer Chemistry, 2011, 2, 1375.	3.9	9
143	Cooperative Effects of Confinement and Surface Functionalization Enable the Formation of Au/Cu₂O Metalâ€“Semiconductor Heterostructures. Crystal Growth and Design, 2016, 16, 6804-6811.	3.0	9
144	Spatially Controlled Occlusion of Polymerâ€Stabilized Gold Nanoparticles within ZnO. Angewandte Chemie, 2019, 131, 4346-4351.	2.0	9

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145	A facile method for generating worm-like micelles with controlled lengths and narrow polydispersity. Chemical Communications, 2020, 56, 7463-7466.	4.1	9
146	Investigating the Nucleation Kinetics of Calcium Carbonate Using a Zero-Water-Loss Microfluidic Chip. Crystal Growth and Design, 2020, 20, 2787-2795.	3.0	9
147	Embracing Mechanobiology in Next Generation Organ-On-A-Chip Models of Bone Metastasis. Frontiers in Medical Technology, 2021, 3, 722501.	2.5	9
148	Solvent-Mediated Enhancement of Additive-Controlled Crystallization. Crystal Growth and Design, 2021, 21, 7104-7115.	3.0	9
149	General Route to Functional Metal Oxide Nanosuspensions, Enzymatically Deshelled Nanoparticles, and Their Application in Photocatalytic Water Splitting. Small, 2011, 7, 869-873.	10.0	8
150	Correlation between Anisotropy and Lattice Distortions in Single Crystal Calcite Nanowires Grown in Confinement. Small, 2014, 10, 2697-2702.	10.0	8
151	Superâ€Resolution Microscopy Reveals Shape and Distribution of Dislocations in Singleâ€Crystal Nanocomposites. Angewandte Chemie - International Edition, 2019, 58, 17328-17334.	13.8	8
152	Starfish grow extraordinary crystals. Science, 2022, 375, 615-616.	12.6	8
153	How Many Phosphoric Acid Units Are Required to Ensure Uniform Occlusion of Sterically Stabilized Nanoparticles within Calcite?. Angewandte Chemie, 2019, 131, 8784-8789.	2.0	7
154	The archaeal lipid composition of partially lithified cold seep mats. Organic Geochemistry, 2008, 39, 1000-1006.	1.8	6
155	Dichroic Calcite Reveals the Pathway from Additive Binding to Occlusion. Crystal Growth and Design, 2021, 21, 3746-3755.	3.0	5
156	Micron-sized biogenic and synthetic hollow mineral spheres occlude additives within single crystals. Faraday Discussions, 2022, 235, 536-550.	3.2	4
157	Impurities in pluronic triblock copolymers can induce the formation of calcite mesocrystals. Chemical Geology, 2012, 294-295, 259-262.	3.3	3
158	Evaluation of microflow configurations for scale inhibition and serial X-ray diffraction analysis of crystallization processes. Lab on A Chip, 2020, 20, 2954-2964.	6.0	3
159	Calcite Kinetics for Spiral Growth and Two-Dimensional Nucleation. Crystal Growth and Design, 2022, 22, 4431-4436.	3.0	3
160	Iron Biomineralization in the PoriferanIrcinia Oros. Journal of the Marine Biological Association of the United Kingdom, 1995, 75, 993-996.	0.8	2
161	Learning from sea shells â€" bio-inspired approaches toward mesoscale architectures in functional spinel oxides. Acta Crystallographica Section A: Foundations and Advances, 2016, 72, s55-s56.	0.1	1
162	Amino Acid Assisted Incorporation of Dye Molecules within Calcite Crystals. Angewandte Chemie, 2018, 130, 8759-8764.	2.0	1

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163	Biomineralization: Amorphous Calcium Carbonate is Stabilized in Confinement (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	14.9	0
164	Nanocomposites: Synthesis of Macroporous Calcium Carbonate/Magnetite Nanocomposites and their Application in Photocatalytic Water Splitting (Small 15/2011). Small, 2011, 7, 2126-2126.	10.0	0
165	Superâ€Resolution Microscopy Reveals Shape and Distribution of Dislocations in Singleâ€Crystal Nanocomposites. Angewandte Chemie, 2019, 131, 17489-17495.	2.0	0
166	Incorporation of additives in single crystals â€“ bio-inspired approach. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, a346-a346.	0.1	0