

Helmut CÃ¶lfn

List of Publications by Year in descending order

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280
papers

25,194
citations

18887

64
h-index

8034

154
g-index

298
all docs

298
docs citations

298
times ranked

20465
citing authors

#	ARTICLE	IF	CITATIONS
1	Cationic Coacervates: Novel Phosphate Ionic Reservoir for the Mineralization of Calcium Phosphates. ACS Biomaterials Science and Engineering, 2023, 9, 1791-1795.	2.6	8
2	Cross-Linking of Apatite-Gelatin Nanocomposites as the Basis for Dentine Replacement Materials. ACS Biomaterials Science and Engineering, 2023, 9, 1815-1822.	2.6	5
3	3D Binary Mesocrystals from Anisotropic Nanoparticles. Angewandte Chemie, 2022, 134, e202112461.	1.6	0
4	3D Binary Mesocrystals from Anisotropic Nanoparticles. Angewandte Chemie - International Edition, 2022, 61, .	7.2	11
5	Self-association and gel formation during sedimentation of like-charged colloids. Materials Horizons, 2022, 9, 1216-1221.	6.4	2
6	Analysis of Magic-Size Clusters in Crude Reaction Mixtures Using Multiwavelength Analytical Ultracentrifugation. Journal of Physical Chemistry C, 2022, 126, 2642-2655.	1.5	2
7	A new opportunity for the preparation of PEEK-based bone implant materials: From SARA ATRP to photo-ATRP. Polymer, 2022, 242, 124587.	1.8	10
8	Influence of anisotropy on heterogeneous nucleation of gold nanorod assemblies. Faraday Discussions, 2022, 235, 132-147.	1.6	2
9	Mesocrystalline structure and mechanical properties of biogenic calcite from sea urchin spine. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2022, 78, 356-358.	0.5	1
10	A Symmetry-Based Kinematic Theory for Nanocrystal Morphology Design. Angewandte Chemie - International Edition, 2022, 61, .	7.2	10
11	Titelbild: Binäre 3D-Mesokristalle aus anisotropen Nanopartikeln (Angew. Chem. 2/2022). Angewandte Chemie, 2022, 134, .	1.6	0
12	Synthesis of two-dimensional layered double hydroxides: a systematic overview. CrystEngComm, 2022, 24, 4639-4655.	1.3	14
13	Self-Assembly of Colloidal Nanocrystals into 3D Binary Mesocrystals. Accounts of Chemical Research, 2022, 55, 1599-1608.	7.6	17
14	Turning Seashell Waste into Electrically Conductive Particles. International Journal of Molecular Sciences, 2022, 23, 7256.	1.8	0
15	Crystal Nucleation and Growth of Inorganic Ionic Materials from Aqueous Solution: Selected Recent Developments, and Implications. Small, 2022, 18, .	5.2	28
16	Revision of the calibration experiment in asymmetrical flow field-flow fractionation. Journal of Chromatography A, 2021, 1635, 461631.	1.8	0
17	Ultracentrifugation Techniques for the Ordering of Nanoparticles. Nanomaterials, 2021, 11, 333.	1.9	21
18	Phase separation of binary mixtures induced by soft centrifugal fields. Physical Chemistry Chemical Physics, 2021, 23, 8261-8272.	1.3	9

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19	Synthesis of ultrathin metal oxide and hydroxide nanosheets using formamide in water at room temperature. <i>CrystEngComm</i> , 2021, 23, 3794-3801.	1.3	5
20	Role of Water in CaCO ₃ Biomineralization. <i>Journal of the American Chemical Society</i> , 2021, 143, 1758-1762.	6.6	28
21	Chirality communications between inorganic and organic compounds. <i>SmartMat</i> , 2021, 2, 17-32.	6.4	45
22	Biominerals: Formation, Function, Properties. <i>Crystals</i> , 2021, 11, 299.	1.0	3
23	Outside Back Cover: Volume 2 Issue 1. <i>SmartMat</i> , 2021, 2, ii.	6.4	0
24	Continuum Crystallization Model Derived from Pharmaceutical Crystallization Mechanisms. <i>ACS Central Science</i> , 2021, 7, 900-908.	5.3	17
25	Assembly Control at a Low Péclet Number in Ultracentrifugation for Uniformly Sized Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2021, 125, 8752-8758.	1.5	1
26	Modular Toolkit of Multifunctional Block Copoly(2-oxazoline)s for the Synthesis of Nanoparticles. <i>Chemistry - A European Journal</i> , 2021, 27, 8283-8287.	1.7	6
27	Surface nanocrystallization of wood particles from biomass waste for regenerated isotropic wood with excellent properties. <i>National Science Review</i> , 2021, 8, nwab096.	4.6	0
28	Materialien: Immer wieder schäumen und lärsen. <i>Nachrichten Aus Der Chemie</i> , 2021, 69, 44-45.	0.0	0
29	Simple Determination of Gold Nanocrystal Dimensions by Analytical Ultracentrifugation via Surface Ligand-Solvent Density Matching. <i>Nanomaterials</i> , 2021, 11, 1427.	1.9	4
30	Mesocrystals from Platinum Nanocubes. <i>Nanomaterials</i> , 2021, 11, 2122.	1.9	6
31	Self-Assembled Faceted Mesocrystals: Advances in Optimization of Growth Conditions. <i>Crystal Growth and Design</i> , 2021, 21, 5490-5495.	1.4	10
32	Determination of Particle Size, Core and Shell Size Distributions of Core-Shell Particles by Analytical Ultracentrifugation. <i>Particle and Particle Systems Characterization</i> , 2021, 38, 2100079.	1.2	2
33	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
34	Controlling Oriented Attachment of Gold Nanoparticles by Size and Shape. <i>Journal of Physical Chemistry C</i> , 2021, 125, 20343-20350.	1.5	3
35	Mineral plastic foams. <i>Materials Horizons</i> , 2021, 8, 1222-1229.	6.4	4
36	Environmentally Benign Formation of Nickel Hexacyanoferrate-Derived Mesoframes for Heterogeneous Catalysis. <i>Nanomaterials</i> , 2021, 11, 2756.	1.9	2

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37	Fluorescent Cadmium Chalcogenide Nanoclusters in Ubiquitin. <i>Small Structures</i> , 2021, 2, 2000127.	6.9	1
38	Bioinspired Compartmentalization Strategy for Coating Polymers with Self-Organized Prismatic Films. <i>Chemistry of Materials</i> , 2021, 33, 9240-9251.	3.2	7
39	Morphogenesis of Magnetite Mesocrystals: Interplay between Nanoparticle Morphology and Solvation Shell. <i>Chemistry of Materials</i> , 2021, 33, 9119-9130.	3.2	11
40	Visualizing Cholesterol Uptake by Self-Assembling Rhodamine B-Labeled Polymer Inside Living Cells via FLIM-FRET Microscopy. <i>Macromolecular Bioscience</i> , 2020, 20, 1900081.	2.1	4
41	Inorganic Porous Bulk Discs as a Matrix for Thin-Layer Chromatography and Translucent Hard Composite Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 3727-3735.	4.0	1
42	On the Future Design of Bio-Inspired Polyetheretherketone Dental Implants. <i>Macromolecular Bioscience</i> , 2020, 20, e1900239.	2.1	48
43	Progress in Mesocrystal Formation. <i>ACS Symposium Series</i> , 2020, , 73-96.	0.5	6
44	Controlling Protein Nanocage Assembly with Hydrostatic Pressure. <i>Journal of the American Chemical Society</i> , 2020, 142, 20640-20650.	6.6	17
45	Tuning the properties of hydrogels made from poly(acrylic acid) and calcium salts. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 18631-18638.	1.3	22
46	Mineral self-organized structures in pre-biotic chemistry. <i>Physics of Life Reviews</i> , 2020, 34-35, 89-91.	1.5	1
47	Synthesis of nickel hexacyanoferrate nanocubes with tuneable dimensions via temperature-controlled Ni ²⁺ -citrate complexation. <i>Chemical Communications</i> , 2020, 56, 14439-14442.	2.2	5
48	Polyetheretherketone implant surface functionalization technologies and the need for a transparent quality evaluation system. <i>Polymer International</i> , 2020, 70, 1002.	1.6	3
49	Light-switchable anchors on magnetized biomorphic microcarriers. <i>Journal of Materials Chemistry B</i> , 2020, 8, 4831-4835.	2.9	4
50	Layering of bidisperse charged nanoparticles in sedimentation. <i>Soft Matter</i> , 2020, 16, 4718-4722.	1.2	2
51	Temperature-induced switchable magnetite nanoparticle superstructures. <i>Materials Advances</i> , 2020, 1, 10-13.	2.6	1
52	Nonclassical Recrystallization. <i>Chemistry - A European Journal</i> , 2020, 26, 15242-15248.	1.7	16
53	Formation of Nanoclusters in Gold Nucleation. <i>Crystals</i> , 2020, 10, 382.	1.0	5
54	Potentiometric Titration Method for the Determination of Solubility Limits and pK_a Values of Weak Organic Acids in Water. <i>Analytical Chemistry</i> , 2020, 92, 9511-9515.	3.2	10

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55	Enhancement of coercivity of self-assembled stacking of ferrimagnetic and antiferromagnetic nanocubes. <i>Nanoscale</i> , 2020, 12, 7792-7796.	2.8	9
56	Multifunctional Polymer-Free Mineral Plastic Adhesives Formed by Multiple Noncovalent Bonds. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 7403-7410.	4.0	9
57	Microscopic Analysis of Heterogeneous Nucleation of Nanoparticle Superstructures. <i>Journal of Physical Chemistry A</i> , 2020, 124, 5657-5663.	1.1	7
58	Nonclassical Nucleation and Crystallization. <i>Crystals</i> , 2020, 10, 61.	1.0	12
59	Functionalized Multiwalled CNTs in Classical and Nonclassical CaCO ₃ Crystallization. <i>Nanomaterials</i> , 2019, 9, 1169.	1.9	8
60	Frontispiece: Putting a New Spin on It: Gradient Centrifugation for Analytical and Preparative Applications. <i>Chemistry - A European Journal</i> , 2019, 25, .	1.7	0
61	Controlled Preparation of Nanoparticle Gradient Materials by Diffusion. <i>Nanomaterials</i> , 2019, 9, 988.	1.9	8
62	Symbiosis of Silica Biomorphs and Magnetite Mesocrystals. <i>Advanced Functional Materials</i> , 2019, 29, 1902047.	7.8	18
63	Bioinspired Synthesis of Hematite Mesocrystals by Using Xonotlite Nanowires as Growth Modifiers and Their Improved Oxygen Evolution Activity. <i>ChemSusChem</i> , 2019, 12, 3747-3752.	3.6	6
64	High-Resolution Analysis of Small Silver Clusters by Analytical Ultracentrifugation. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6558-6564.	2.1	12
65	Magnetic Nanoparticle Chains in Gelatin Ferrogels: Bioinspiration from Magnetotactic Bacteria. <i>Advanced Functional Materials</i> , 2019, 29, 1905996.	7.8	23
66	Flüssige metastabile Vorstufen von Ibuprofen als Zwischenprodukt der Nukleation in wässriger Lösung. <i>Angewandte Chemie</i> , 2019, 131, 19279-19286.	1.6	12
67	Liquid Metastable Precursors of Ibuprofen as Aqueous Nucleation Intermediates. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 19103-19109.	7.2	46
68	Synthesis of Fiber-like Monetite without Organic Additives and Its Transformation to Hydroxyapatite. <i>Chemistry of Materials</i> , 2019, 31, 1543-1551.	3.2	19
69	On Biomineralization: Enzymes Switch on Mesocrystal Assembly. <i>ACS Central Science</i> , 2019, 5, 357-364.	5.3	24
70	New Horizons of Nonclassical Crystallization. <i>Journal of the American Chemical Society</i> , 2019, 141, 10120-10136.	6.6	168
71	Binary Colloidal Nanoparticles with a Large Size Ratio in Analytical Ultracentrifugation. <i>ChemPhysChem</i> , 2019, 20, 1799-1803.	1.0	4
72	Magnetic field-assisted assembly of iron oxide mesocrystals: a matter of nanoparticle shape and magnetic anisotropy. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 894-900.	1.5	17

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73	Hybrid Biomimetic Materials from Silica/Carbonate Biomorphs. <i>Crystals</i> , 2019, 9, 157.	1.0	10
74	Practical Aspects of Multiwavelength Analytical Ultracentrifugation. <i>Instruments</i> , 2019, 3, 23.	0.8	3
75	Mineral plastic hydrogels from the cross-linking of polyacrylic acid and alkaline earth or transition metal ions. <i>Chemical Communications</i> , 2019, 55, 4913-4916.	2.2	37
76	Putting a New Spin on It: Gradient Centrifugation for Analytical and Preparative Applications. <i>Chemistry - A European Journal</i> , 2019, 25, 10026-10032.	1.7	8
77	Multifunctional Block Copolymers for Simultaneous Solubilization of Poorly Water-Soluble Cholesterol and Hydroxyapatite Crystals. <i>Advanced Functional Materials</i> , 2019, 29, 1808331.	7.8	8
78	Development of a novel CaCO ₃ PILP based cementation method for quartz sand. <i>CrystEngComm</i> , 2019, 21, 2273-2280.	1.3	7
79	Non-stoichiometric hydrated magnesium-doped calcium carbonate precipitation in ethanol. <i>Chemical Communications</i> , 2019, 55, 12944-12947.	2.2	8
80	Addressing some of the technical challenges associated with liquid phase S/TEM studies of particle nucleation, growth and assembly. <i>Micron</i> , 2019, 118, 35-42.	1.1	24
81	Binary Colloidal Nanoparticle Concentration Gradients in a Centrifugal Field at High Concentration. <i>Nano Letters</i> , 2019, 19, 1136-1142.	4.5	13
82	Bioinspired multifunctional layered magnetic hybrid materials. <i>Bioinspired, Biomimetic and Nanobiomaterials</i> , 2019, 8, 28-46.	0.7	5
83	Kontrolle der Molmassenverteilung durch Polymerisation in der analytischen Ultrazentrifuge. <i>Angewandte Chemie</i> , 2018, 130, 8416-8419.	1.6	3
84	Mineral-Enhanced Polyacrylic Acid Hydrogel as an Oyster-Inspired Organic-Inorganic Hybrid Adhesive. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 10471-10479.	4.0	142
85	Control of Molar Mass Distribution by Polymerization in the Analytical Ultracentrifuge. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 8284-8287.	7.2	19
86	Controlled Aqueous Synthesis of CdSe Quantum Dots using Double-Hydrophilic Block Copolymers as Stabilizers. <i>Zeitschrift Fur Physikalische Chemie</i> , 2018, 232, 1281-1293.	1.4	3
87	Seeded Mineralization Leads to Hierarchical CaCO ₃ Thin Coatings on Fibers for Oil/Water Separation Applications. <i>Langmuir</i> , 2018, 34, 2942-2951.	1.6	33
88	Optical glucose sensing using ethanolamine-polyborate complexes. <i>Journal of Materials Chemistry B</i> , 2018, 6, 816-823.	2.9	8
89	From Solute, Fluidic and Particulate Precursors to Complex Organizations of Matter. <i>Chemical Record</i> , 2018, 18, 1203-1221.	2.9	18
90	Advanced Multiwavelength Detection in Analytical Ultracentrifugation. <i>Analytical Chemistry</i> , 2018, 90, 1280-1291.	3.2	47

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91	Innentitelbild: Kontrolle der Molmassenverteilung durch Polymerisation in der analytischen Ultrazentrifuge (Angew. Chem. 27/2018). Angewandte Chemie, 2018, 130, 8034-8034.	1.6	0
92	Infiltration of biomineral templates for nanostructured polypyrrole. RSC Advances, 2018, 8, 33748-33752.	1.7	11
93	ICCD camera technology with constant illumination source and possibilities for application in multiwavelength analytical ultracentrifugation. RSC Advances, 2018, 8, 40655-40662.	1.7	5
94	On classical and non-classical views on nucleation. Numerische Mathematik, 2018, 318, 969-988.	0.7	97
95	Nanoparticle Gradient Materials by Centrifugation. Small, 2018, 14, e1803518.	5.2	10
96	Analytical Ultracentrifugation: Nanoparticle Gradient Materials by Centrifugation (Small 50/2018). Small, 2018, 14, 1870244.	5.2	1
97	Facile Photochemical Modification of Silk Protein-Based Biomaterials. Macromolecular Bioscience, 2018, 18, e1800216.	2.1	5
98	Emerging artificial Bouligand-type structural materials. National Science Review, 2018, 5, 786-787.	4.6	3
99	Analytical band centrifugation revisited. European Biophysics Journal, 2018, 47, 799-807.	1.2	12
100	High-Resolution Asymmetrical Flow Field-Flow Fractionation Data Evaluation via Richardson-Lucy-Based Fractogram Correction. Analytical Chemistry, 2018, 90, 13978-13986.	3.2	10
101	Sedimentation of C_{60} and C_{70} : Testing the Limits of Stokes' Law. Journal of Physical Chemistry Letters, 2018, 9, 6345-6349.	2.1	7
102	Band Sedimentation Experiment in Analytical Ultracentrifugation Revisited. Analytical Chemistry, 2018, 90, 10659-10663.	3.2	11
103	Synergistic Effect of Granular Seed Substrates and Soluble Additives in Structural Control of Prismatic CaCO_3 Thin Films. Langmuir, 2018, 34, 11126-11138.	1.6	7
104	Design concepts in absorbance optical systems for analytical ultracentrifugation. Analyst, The, 2018, 143, 4040-4050.	1.7	10
105	Biopolymer-Directed Magnetic Composites. , 2018, , 175-199.		1
106	Stabilization of Mineral Precursors by Intrinsically Disordered Proteins. Advanced Functional Materials, 2018, 28, 1802063.	7.8	24
107	Structural Transition of Inorganic Silica-Carbonate Composites Towards Curved Lifelike Morphologies. Minerals (Basel, Switzerland), 2018, 8, 75.	0.8	8
108	LED based near infrared spectral acquisition for multiwavelength analytical ultracentrifugation: A case study with gold nanoparticles. Analytica Chimica Acta, 2018, 1043, 72-80.	2.6	7

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109	Ionic Dependence of Gelatin Hydrogel Architecture Explored Using Small and Very Small Angle Neutron Scattering Technique. <i>Macromolecular Bioscience</i> , 2018, 18, e1800018.	2.1	8
110	Frontispiece: Water Dynamics from THz Spectroscopy Reveal the Locus of a Liquidâ€“Liquid Binodal Limit in Aqueous CaCO ₃ Solutions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, .	7.2	1
111	Mesocrystalline Films: Selfâ€“Assembled Magnetite Mesocrystalline Films: Toward Structural Evolution from 2D to 3D Superlattices (<i>Adv. Mater. Interfaces</i> 1/2017). <i>Advanced Materials Interfaces</i> , 2017, 4, .	1.9	1
112	Ferrimagnetic Fibers: Toroidal Protein Adaptor Assembles Ferrimagnetic Nanoparticle Fibers with Constructive Magnetic Coupling (<i>Adv. Funct. Mater.</i> 7/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	0
113	Alignment of Amorphous Iron Oxide Clusters: A Nonâ€“Classical Mechanism for Magnetite Formation. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 4042-4046.	7.2	50
114	Retrosynthesis of CaCO ₃ via amorphous precursor particles using gastroliths of the Red Claw lobster (<i>Cherax quadricarinatus</i>). <i>Journal of Structural Biology</i> , 2017, 199, 46-56.	1.3	4
115	Growth of organic crystals via attachment and transformation of nanoscopic precursors. <i>Nature Communications</i> , 2017, 8, 15933.	5.8	44
116	Mineralien im Polymer. <i>Nachrichten Aus Der Chemie</i> , 2017, 65, 629-631.	0.0	2
117	Synthesis of calcium carbonate in trace water environments. <i>Chemical Communications</i> , 2017, 53, 4811-4814.	2.2	12
118	Water Dynamics from THz Spectroscopy Reveal the Locus of a Liquidâ€“Liquid Binodal Limit in Aqueous CaCO ₃ Solutions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 490-495.	7.2	101
119	Toroidal Protein Adaptor Assembles Ferrimagnetic Nanoparticle Fibers with Constructive Magnetic Coupling. <i>Advanced Functional Materials</i> , 2017, 27, 1604532.	7.8	6
120	Spectral and Hydrodynamic Analysis of West Nile Virus RNAâ€“Protein Interactions by Multiwavelength Sedimentation Velocity in the Analytical Ultracentrifuge. <i>Analytical Chemistry</i> , 2017, 89, 862-870.	3.2	24
121	Gel-Like Calcium Carbonate Precursors Observed by <i>in situ</i> AFM. <i>Langmuir</i> , 2017, 33, 158-163.	1.6	26
122	Order and Defects in Ceramic Semiconductor Nanoparticle Superstructures as a Function of Polydispersity and Aspect Ratio. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1600215.	1.2	2
123	A non-classical view on calcium oxalate precipitation and the role of citrate. <i>Nature Communications</i> , 2017, 8, 768.	5.8	99
124	Frontispiece: Crystallization Caught in the Act with Terahertz Spectroscopy: Nonâ€“Classical Pathway for <i>Ca</i> Tartaric Acid. <i>Chemistry - A European Journal</i> , 2017, 23, .	1.7	0
125	Additive Speciation and Phase Behavior Modulating Mineralization. <i>Journal of Physical Chemistry C</i> , 2017, 121, 21641-21649.	1.5	8
126	Freeâ€“Standing Materials: Freeâ€“Standing Photonic Glasses Fabricated in a Centrifugal Field (Small) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	9.2	

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127	Mass production of bulk artificial nacre with excellent mechanical properties. Nature Communications, 2017, 8, 287.	5.8	293
128	Free-standing Photonic Glasses Fabricated in a Centrifugal Field. Small, 2017, 13, 1701392.	5.2	14
129	Crystallization Caught in the Act with Terahertz Spectroscopy: Non-Classical Pathway for Tartaric Acid. Chemistry - A European Journal, 2017, 23, 14128-14132.	1.7	21
130	Resonant transport and near-field effects in photonic glasses. Physical Review A, 2017, 96, .	1.0	33
131	Mesocrystalline calcium silicate hydrate: A bioinspired route toward elastic concrete materials. Science Advances, 2017, 3, e1701216.	4.7	96
132	Total morphosynthesis of biomimetic prismatic-type CaCO ₃ thin films. Nature Communications, 2017, 8, 1398.	5.8	61
133	Functional Gradient Inverse Opal Carbon Monoliths with Directional and Multinary Porosity. Advanced Materials, 2017, 29, 1603356.	11.1	15
134	Self-Assembled Magnetite Mesocrystalline Films: Toward Structural Evolution from 2D to 3D Superlattices. Advanced Materials Interfaces, 2017, 4, 1600431.	1.9	63
135	A general strategy for colloidal stable ultrasmall amorphous mineral clusters in organic solvents. Chemical Science, 2017, 8, 1400-1405.	3.7	23
136	Hydration dynamics in CaCO ₃ nucleation by THz spectroscopy. , 2017, , .		0
137	On Mineral Retrosynthesis of a Complex Biogenic Scaffold. Inorganics, 2017, 5, 16.	1.2	10
138	A Micro-Comb Test System for In Situ Investigation of Infiltration and Crystallization Processes. Minerals (Basel, Switzerland), 2017, 7, 187.	0.8	2
139	Mesocrystals: Past, Presence, Future. Crystals, 2017, 7, 207.	1.0	72
140	Modulating Nucleation by Kosmotropes and Chaotropes: Testing the Waters. Crystals, 2017, 7, 302.	1.0	5
141	Mineralization Schemes in the Living World: Mesocrystals. , 2017, , 155-183.		16
142	Hemolysin coregulated protein 1 as a molecular gluing unit for the assembly of nanoparticle hybrid structures. Beilstein Journal of Nanotechnology, 2016, 7, 351-363.	1.5	6
143	Biom mineralization of Engineered Spider Silk Protein-Based Composite Materials for Bone Tissue Engineering. Materials, 2016, 9, 560.	1.3	28
144	Mineralization and non-ideality: on nature's foundry. Biophysical Reviews, 2016, 8, 309-329.	1.5	16

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145	On the biophysical regulation of mineral growth: Standing out from the crowd. <i>Journal of Structural Biology</i> , 2016, 196, 232-243.	1.3	14
146	Synergistic Biomineralization Phenomena Created by a Combinatorial Nacre Protein Model System. <i>Biochemistry</i> , 2016, 55, 2401-2410.	1.2	25
147	Anisotropic nanowire growth via a self-confined amorphous template process: A reconsideration on the role of amorphous calcium carbonate. <i>Nano Research</i> , 2016, 9, 1334-1345.	5.8	9
148	A solvothermal method for synthesizing monolayer protected amorphous calcium carbonate clusters. <i>Chemical Communications</i> , 2016, 52, 7036-7038.	2.2	33
149	Distinct Short-Range Order Is Inherent to Small Amorphous Calcium Carbonate Clusters ($2\text{--}10\text{ nm}$). <i>Angewandte Chemie - International Edition</i> , 2016, 55, 12206-12209.	7.2	47
150	Recombinant perlucin derivatives influence the nucleation of calcium carbonate. <i>CrystEngComm</i> , 2016, 18, 8439-8444.	1.3	9
151	Challenges in the size analysis of a silica nanoparticle mixture as candidate certified reference material. <i>Journal of Nanoparticle Research</i> , 2016, 18, 171.	0.8	68
152	Mesocrystals: structural and morphogenetic aspects. <i>Chemical Society Reviews</i> , 2016, 45, 5821-5833.	18.7	171
153	Simultane Bestimmung spektraler Eigenschaften und Größen von multiplen Partikeln in Lösung mit Subnanometer-Auflösung. <i>Angewandte Chemie</i> , 2016, 128, 11944-11949.	1.6	2
154	Synthetic nacre by predesigned matrix-directed mineralization. <i>Science</i> , 2016, 354, 107-110.	6.0	706
155	Templated CaCO_3 Crystallization by Submicrometer and Nanosized Fibers. <i>Langmuir</i> , 2016, 32, 8951-8959.	1.6	3
156	Fluorescent Nanodiamond-Gold Hybrid Particles for Multimodal Optical and Electron Microscopy Cellular Imaging. <i>Nano Letters</i> , 2016, 16, 6236-6244.	4.5	68
157	Simultaneous Identification of Spectral Properties and Sizes of Multiple Particles in Solution with Subnanometer Resolution. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11770-11774.	7.2	46
158	Shape Analysis of DNA-Au Hybrid Particles by Analytical Ultracentrifugation. <i>ACS Nano</i> , 2016, 10, 7418-7427.	7.3	14
159	Hydrogels from Amorphous Calcium Carbonate and Polyacrylic Acid: Bio-Inspired Materials for "Mineral Plastics". <i>Angewandte Chemie - International Edition</i> , 2016, 55, 11765-11769.	7.2	194
160	A Model Sea Urchin Spicule Matrix Protein Self-Associates To Form Mineral-Modifying Protein Hydrogels. <i>Biochemistry</i> , 2016, 55, 4410-4421.	1.2	22
161	The Multiwavelength UV/Vis Detector: New Possibilities with an Added Spectral Dimension. , 2016, , 63-80.		4
162	pH-Dependent Schemes of Calcium Carbonate Formation in the Presence of Alginates. <i>Crystal Growth and Design</i> , 2016, 16, 1349-1359.	1.4	33

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164	Functionalisation of silica-carbonate biomorphs. <i>Nanoscale Horizons</i> , 2016, 1, 144-149.	4.1	43
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