Ruikang Tang

List of Publications by Year
in descending order

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191	7,986	46918	66788
papers	citations	47 h-index	78 g-index

203	203	203	7950
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Role of hydroxyapatite nanoparticle size in bone cell proliferation. Journal of Materials Chemistry, 2007, 17, 3780.	6.7	344
2	Calcium phosphate nanoparticles in biomineralization and biomaterials. Journal of Materials Chemistry, 2008, 18, 3775.	6.7	264
3	Biomineralization: From Material Tactics to Biological Strategy. Advanced Materials, 2017, 29, 1605903.	11.1	239
4	Yeast Cells with an Artificial Mineral Shell: Protection and Modification of Living Cells by Biomimetic Mineralization. Angewandte Chemie - International Edition, 2008, 47, 3560-3564.	7.2	203
5	Repair of enamel by using hydroxyapatite nanoparticles as the building blocks. Journal of Materials Chemistry, 2008, 18, 4079.	6.7	195
6	Repair of tooth enamel by a biomimetic mineralization frontier ensuring epitaxial growth. Science Advances, 2019, 5, eaaw9569.	4.7	168
7	Crosslinking ionic oligomers as conformable precursors to calcium carbonate. Nature, 2019, 574, 394-398.	13.7	166
8	Roles of Amorphous Calcium Phosphate and Biological Additives in the Assembly of Hydroxyapatite Nanoparticles. Journal of Physical Chemistry B, 2007, 111, 13410-13418.	1.2	156
9	Effect of crystallinity of calcium phosphate nanoparticles on adhesion, proliferation, and differentiation of bone marrow mesenchymal stem cells. Journal of Materials Chemistry, 2007, 17, 4690.	6.7	152
10	Toward a Detailed Understanding of Magnesium Ions on Hydroxyapatite Crystallization Inhibition. Crystal Growth and Design, 2014, 14, 763-769.	1.4	140
11	Citrate Improves Collagen Mineralization via Interface Wetting: A Physicochemical Understanding of Biomineralization Control. Advanced Materials, 2018, 30, 1704876.	11.1	139
12	Incorporation of small extracellular vesicles in sodium alginate hydrogel as a novel therapeutic strategy for myocardial infarction. Theranostics, 2019, 9, 7403-7416.	4.6	138
13	Rational design of thermostable vaccines by engineered peptide-induced virus self-biomineralization under physiological conditions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7619-7624.	3.3	134
14	Mer regulates microglial/macrophage M1/M2 polarization and alleviates neuroinflammation following traumatic brain injury. Journal of Neuroinflammation, 2021, 18, 2.	3.1	126
15	Magnesium-aspartate-based crystallization switch inspired from shell molt of crustacean. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22096-22101.	3.3	120
16	Adsorption Processes of Gly and Glu Amino Acids on Hydroxyapatite Surfaces at the Atomic Level. Langmuir, 2007, 23, 8972-8981.	1.6	119
17	Virus Capture and Destruction by Labelâ€Free Graphene Oxide for Detection and Disinfection Applications. Small, 2015, 11, 1171-1176.	5.2	113
18	Bioâ€Inspired Enamel Repair via Gluâ€Directed Assembly of Apatite Nanoparticles: an Approach to Biomaterials with Optimal Characteristics. Advanced Materials, 2011, 23, 4695-4701.	11.1	105

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19	Mystery of the transformation from amorphous calcium phosphate to hydroxyapatite. Chemical Communications, 2010, 46, 7415.	2.2	99
20	Dissolution at the Nanoscale: Self-Preservation of Biominerals. Angewandte Chemie - International Edition, 2004, 43, 2697-2701.	7.2	98
21	Shape-preserving amorphous-to-crystalline transformation of CaCO ₃ revealed by in situ TEM. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3397-3404.	3.3	97
22	A Drugâ€Free Tumor Therapy Strategy: Cancerâ€Cellâ€Targeting Calcification. Angewandte Chemie - International Edition, 2016, 55, 5225-5229.	7.2	94
23	Mechanism of Dissolution of Sparingly Soluble Electrolytes. Journal of the American Chemical Society, 2001, 123, 5437-5443.	6.6	88
24	Improvement of Biological Organisms Using Functional Material Shells. Advanced Functional Materials, 2016, 26, 1862-1880.	7.8	81
25	Osteoporotic Bone Recovery by a Highly Boneâ€Inductive Calcium Phosphate Polymerâ€Induced Liquidâ€Precursor. Advanced Science, 2019, 6, 1900683.	5.6	80
26	Control of Biomineralization Dynamics by Interfacial Energies. Angewandte Chemie - International Edition, 2005, 44, 3698-3702.	7.2	79
27	Biomimetic Mineralized Organicâ€“Inorganic Hybrid Macrofiber with Spider Silkâ€Like Supertoughness. Advanced Functional Materials, 2020, 30, 1908556.	7.8	79
28	Alleviation of high light-induced photoinhibition in cyanobacteria by artificially conferred biosilica shells. Chemical Communications, 2013, 49, 7525.	2.2	76
29	Antigenically shielded universal red blood cells by polydopamine-based cell surface engineering. Chemical Science, 2014, 5, 3463-3468.	3.7	74
30	The Role of Exosomal microRNAs and Oxidative Stress in Neurodegenerative Diseases. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-17.	1.9	74
31	Programmed Cell Deaths and Potential Crosstalk With Bloodâ€“Brain Barrier Dysfunction After Hemorrhagic Stroke. Frontiers in Cellular Neuroscience, 2020, 14, 68.	1.8	69
32	Silicificationâ€Induced Cell Aggregation for the Sustainable Production of H₂ under Aerobic Conditions. Angewandte Chemie - International Edition, 2015, 54, 11961-11965.	7.2	68
33	In Situ Liquid Cell TEM Reveals Bridge-Induced Contact and Fusion of Au Nanocrystals in Aqueous Solution. Nano Letters, 2018, 18, 6551-6556.	4.5	68
34	Stabilizing amorphous calcium phosphate phase by citrate adsorption. CrystEngComm, 2014, 16, 1864-1867.	1.3	66
35	Amorphous calcium phosphate phase-mediated crystal nucleation kinetics and pathway. Faraday Discussions, 2015, 179, 451-461.	1.6	66
36	InÂvivo dual-targeted chemotherapy of drug resistant cancer by rationally designed nanocarrier. Biomaterials, 2016, 75, 71-81.	5.7	66

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37	Kinetics of Dissolution of Î²-Tricalcium Phosphate. Langmuir, 2001, 17, 3480-3485.	1.6	63
38	Size-effects in the dissolution of hydroxyapatite: an understanding of biological demineralization. Journal of Materials Chemistry, 2004, 14, 2341.	6.7	61
39	Total morphosynthesis of biomimetic prismatic-type CaCO3 thin films. Nature Communications, 2017, 8, 1398.	5.8	61
40	Hydrated Silica Exterior Produced by Biomimetic Silicification Confers Viral Vaccine Heat-Resistance. ACS Nano, 2015, 9, 799-808.	7.3	59
41	Evolution of Amorphous Calcium Phosphate to Hydroxyapatite Probed by Gold Nanoparticles. Journal of Physical Chemistry C, 2008, 112, 14929-14933.	1.5	57
42	Biomineralizationâ€Based Virus Shellâ€Engineering: Towards Neutralization Escape and Tropism Expansion. Advanced Healthcare Materials, 2012, 1, 443-449.	3.9	57
43	Nanoparticle Counting by Microscopic Digital Detection: Selective Quantitative Analysis of Exosomes via Surface-Anchored Nucleic Acid Amplification. Analytical Chemistry, 2018, 90, 6556-6562.	3.2	57
44	Organicâ€“Inorganic Copolymerization for a Homogenous Composite without an Interphase Boundary. Angewandte Chemie - International Edition, 2020, 59, 2071-2075.	7.2	57
45	Unique Roles of Acidic Amino Acids in Phase Transformation of Calcium Phosphates. Journal of Physical Chemistry B, 2011, 115, 1151-1157.	1.2	55
46	Constant composition dissolution of mixed phases. Journal of Colloid and Interface Science, 2003, 260, 379-384.	5.0	54
47	Pressure-driven fusion of amorphous particles into integrated monoliths. Science, 2021, 372, 1466-1470.	6.0	52
48	High efficient multifunctional Ag3PO4 loaded hydroxyapatite nanowires for water treatment. Journal of Hazardous Materials, 2015, 299, 379-387.	6.5	51
49	Ceria nanoparticles ameliorate white matter injury after intracerebral hemorrhage: microglia-astrocyte involvement in remyelination. Journal of Neuroinflammation, 2021, 18, 43.	3.1	51
50	A Highly Sensitive, Reversible, and Bidirectional Humidity Actuator by Calcium Carbonate Ionic Oligomers Incorporated Poly(Vinylidene Fluoride). Advanced Functional Materials, 2021, 31, 2101291.	7.8	51
51	Eggshellâ€Inspired Biomineralization Generates Vaccines that Do Not Require Refrigeration. Angewandte Chemie - International Edition, 2012, 51, 10576-10579.	7.2	50
52	Nanomaterialâ€Based Organelles Protect Normal Cells against Chemotherapyâ€Induced Cytotoxicity. Advanced Materials, 2018, 30, e1801304.	11.1	49
53	Biomimetic promotion of dentin remineralization using<scp>l</scp>-glutamic acid: inspiration from biomineralization proteins. Journal of Materials Chemistry B, 2014, 2, 4544-4553.	2.9	47
54	Vaccine Engineering with Dualâ€Functional Mineral Shell: A Promising Strategy to Overcome Preexisting Immunity. Advanced Materials, 2016, 28, 694-700.	11.1	46

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55	A Macromolecular Drug for Cancer Therapy via Extracellular Calcification. Angewandte Chemie - International Edition, 2021, 60, 6509-6517.	7.2	46
56	Microglia and Neuroinflammation: Crucial Pathological Mechanisms in Traumatic Brain Injury-Induced Neurodegeneration. Frontiers in Aging Neuroscience, 2022, 14, 825086.	1.7	46
57	Dissolution of Crystallites: Surface Energetic Control and Size Effects. ChemPhysChem, 2004, 5, 688-696.	1.0	44
58	Hydration layer structures on calcite facets and their roles in selective adsorptions of biomolecules: A molecular dynamics study. Journal of Chemical Physics, 2013, 139, 234705.	1.2	42
59	Glutaraldehyde-induced remineralization improves the mechanical properties and biostability of dentin collagen. Materials Science and Engineering C, 2016, 67, 657-665.	3.8	42
60	Amorphous Phase Mediated Crystallization: Fundamentals of Biomineralization. Crystals, 2018, 8, 48.	1.0	42
61	Surface-anchored framework for generating RhD-epitope stealth red blood cells. Science Advances, 2020, 6, eaaw9679.	4.7	42
62	Revealing the Clusterâ€Cloud and Its Role in Nanocrystallization. Advanced Materials, 2019, 31, e1808225.	11.1	41
63	Smart Nanosacrificial Layer on the Bone Surface Prevents Osteoporosis through Acidâ€“Base Neutralization Regulated Biocascade Effects. Journal of the American Chemical Society, 2020, 142, 17543-17556.	6.6	40
64	An updated review of autophagy in ischemic stroke: From mechanisms to therapies. Experimental Neurology, 2021, 340, 113684.	2.0	40
65	Nanomodification of living organisms by biomimetic mineralization. Nano Research, 2014, 7, 1404-1428.	5.8	39
66	A novel fluorescent adhesive-assisted biomimetic mineralization. Nanoscale, 2018, 10, 18980-18987.	2.8	39
67	Effect of the aggregation state of amorphous calcium phosphate on hydroxyapatite nucleation kinetics. RSC Advances, 2017, 7, 25497-25503.	1.7	38
68	Recent experimental explorations of non-classical nucleation. CrystEngComm, 2020, 22, 4057-4073.	1.3	36
69	Prussian Blue/Calcium Peroxide Nanocomposites-Mediated Tumor Cell Iron Mineralization for Treatment of Experimental Lung Adenocarcinoma. ACS Nano, 2021, 15, 19838-19852.	7.3	36
70	Biomineralized vaccine nanohybrid for needle-free intranasal immunization. Biomaterials, 2016, 106, 286-294.	5.7	35
71	Polyelectrolyteâ€calcium complexes as a pre-precursor induce biomimetic mineralization of collagen. Nanoscale, 2021, 13, 953-967.	2.8	35
72	Cepharanthine Attenuates Early Brain Injury after Subarachnoid Hemorrhage in Mice via Inhibiting 15-Lipoxygenase-1-Mediated Microglia and Endothelial Cell Ferroptosis. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-16.	1.9	35

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73	Injectable Dualâ€Dynamicâ€Bond Crossâ€Linked Hydrogel for Highly Efficient Infected Diabetic Wound Healing. Advanced Healthcare Materials, 2022, 11, e2200516.	3.9	35
74	Faster nucleation at lower pH: amorphous phase mediated nucleation kinetics. Physical Chemistry Chemical Physics, 2013, 15, 12530.	1.3	34
75	Improvement of organisms by biomimetic mineralization: A material incorporation strategy for biological modification. Acta Biomaterialia, 2021, 120, 57-80.	4.1	34
76	A Flexible and Degradable Hybrid Mineral as a Plastic Substitute. Advanced Materials, 2022, 34, e2107523.	11.1	34
77	Biomimetic graphene oxideâ€“hydroxyapatite composites via in situ mineralization and hierarchical assembly. RSC Advances, 2014, 4, 25398-25403.	1.7	33
78	Self-Etch Adhesive as a Carrier for ACP Nanoprecursors to Deliver Biomimetic Remineralization. ACS Applied Materials & Interfaces, 2017, 9, 17710-17717.	4.0	33
79	Realignment of Nanocrystal Aggregates into Single Crystals as a Result of Inherent Surface Stress. Angewandte Chemie - International Edition, 2016, 55, 12836-12840.	7.2	31
80	Crosstalk Between the Oxidative Stress and Glia Cells After Stroke: From Mechanism to Therapies. Frontiers in Immunology, 2022, 13, 852416.	2.2	31
81	Cellular shellization: Surface engineering gives cells an exterior. BioEssays, 2010, 32, 698-708.	1.2	30
82	Preparation of Calcite and Aragonite Complex Layer Materials Inspired from Biomineralization. Crystal Growth and Design, 2009, 9, 3095-3099.	1.4	29
83	Guarding Embryo Development of Zebrafish by Shell Engineering: A Strategy to Shield Life from Ozone Depletion. PLoS ONE, 2010, 5, e9963.	1.1	29
84	Protection of Photosynthetic Algae against Ultraviolet Radiation by One-Step CeO₂ Shellization. Langmuir, 2017, 33, 2454-2459.	1.6	29
85	Promotion effect of immobilized chondroitin sulfate on intrafibrillar mineralization of collagen. Carbohydrate Polymers, 2020, 229, 115547.	5.1	29
86	Phase Transformation Mechanism of Amorphous Calcium Phosphate to Hydroxyapatite Investigated by Liquid-Cell Transmission Electron Microscopy. Crystal Growth and Design, 2021, 21, 5126-5134.	1.4	29
87	A Bioinspired Ultratough Composite Produced by Integration of Inorganic Ionic Oligomers within Polymer Networks. ACS Nano, 2022, 16, 7926-7936.	7.3	29
88	Prevention of Cyanobacterial Blooms Using Nanosilica: A Biomineralization-Inspired Strategy. Environmental Science & Technology, 2017, 51, 12717-12726.	4.6	28
89	Overcoming cisplatin resistance in chemotherapy by biomineralization. Chemical Communications, 2013, 49, 4932.	2.2	27
90	The effect of amorphous calcium phosphate on protein protection against thermal denaturation. Chemical Communications, 2015, 51, 8705-8707.	2.2	27

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91	Robust vaccine formulation produced by assembling a hybrid coating of polyethyleneimineâ€“silica. Chemical Science, 2016, 7, 1753-1759.	3.7	27
92	Fabrication of collagen membranes with different intrafibrillar mineralization degree as a potential use for GBR. Materials Science and Engineering C, 2019, 104, 109959.	3.8	27
93	Ultra-high payload of doxorubicin and pH-responsive drug release in CuS nanocages for a combination of chemotherapy and photothermal therapy. RSC Advances, 2013, 3, 23133.	1.7	26
94	Molecular simulation of water behaviors on crystal faces of hydroxyapatite. Frontiers of Chemistry in China: Selected Publications From Chinese Universities, 2007, 2, 156-163.	0.4	25
95	Cells Recognize and Prefer Bone-like Hydroxyapatite: Biochemical Understanding of Ultrathin Mineral Platelets in Bone. ACS Applied Materials & Interfaces, 2016, 8, 29997-30004.	4.0	25
96	Muscle-like Ultratough Hybrid Hydrogel Constructed by Heterogeneous Inorganic Polymerization on an Organic Network. ACS Applied Materials & Interfaces, 2020, 12, 54212-54221.	4.0	25
97	Less is more: silicate in the crystallization of hydroxyapatite in simulated body fluids. CrystEngComm, 2016, 18, 379-383.	1.3	24
98	High strength brushite bioceramics obtained by selective regulation of crystal growth with chiral biomolecules. Acta Biomaterialia, 2020, 106, 351-359.	4.1	24
99	New Mechanisms and Targets of Subarachnoid Hemorrhage: A Focus on Mitochondria. Current Neuropharmacology, 2022, 20, 1278-1296.	1.4	23
100	New mechanism for the dissolution of sparingly soluble minerals. Pure and Applied Chemistry, 2002, 74, 1851-1857.	0.9	22
101	Biomineralization State of Viruses and Their Biological Potential. Chemistry - A European Journal, 2018, 24, 11518-11529.	1.7	22
102	Polydopamine Promotes Dentin Remineralization via Interfacial Control. ACS Biomaterials Science and Engineering, 2020, 6, 3327-3334.	2.6	22
103	Inhibition of caspase-1-mediated inflammasome activation reduced blood coagulation in cerebrospinal fluid after subarachnoid haemorrhage. EBioMedicine, 2022, 76, 103843.	2.7	22
104	Nano Regulation of Cisplatin Chemotherapeutic Behaviors by Biomineralization Controls. Small, 2014, 10, 3644-3649.	5.2	21
105	Mineralized State of the Avian Influenza Virus in the Environment. Angewandte Chemie - International Edition, 2017, 56, 12908-12912.	7.2	21
106	Biomineralization improves the thermostability of foot-and-mouth disease virus-like particles and the protective immune response induced. Nanoscale, 2019, 11, 22748-22761.	2.8	21
107	Synergic Effect of Sr²⁺ and Mg²⁺ on the Stabilization of Amorphous Calcium Phosphate. Crystal Growth and Design, 2018, 18, 6054-6060.	1.4	20
108	Phosphorylated chitosan to promote biomimetic mineralization of type I collagen as a strategy for dentin repair and bone tissue engineering. New Journal of Chemistry, 2019, 43, 2002-2010.	1.4	20

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109	Functional Singleâ€Virusâ€“Polyelectrolyte Hybrids Make Largeâ€Scale Applications of Viral Nanoparticles More Efficient. Small, 2010, 6, 351-354.	5.2	19
110	Evolution from Classical to Non-classical Aggregation-Based Crystal Growth of Calcite by Organic Additive Control. Langmuir, 2016, 32, 8999-9004.	1.6	19
111	Calcium Phosphate Nanocluster-Loaded Injectable Hydrogel for Bone Regeneration. ACS Applied Bio Materials, 2019, 2, 4408-4417.	2.3	19
112	Hierarchical structure and mechanical properties of remineralized dentin. Journal of the Mechanical Behavior of Biomedical Materials, 2014, 40, 297-306.	1.5	18
113	Alumina-encapsulated vaccine formulation with improved thermostability and immunogenicity. Chemical Communications, 2016, 52, 6447-6450.	2.2	18
114	Biomimetic inorganic camouflage circumvents antibody-dependent enhancement of infection. Chemical Science, 2017, 8, 8240-8246.	3.7	18
115	Therapeutic Potential of Biomineralizationâ€Based Engineering. Advanced Therapeutics, 2018, 1, 1800079.	1.6	18
116	Biomimetic mineralization: An emerging organism engineering strategy for biomedical applications. Journal of Inorganic Biochemistry, 2022, 232, 111815.	1.5	18
117	A new perspective on cerebrospinal fluid dynamics after subarachnoid hemorrhage: From normal physiology to pathophysiological changes. Journal of Cerebral Blood Flow and Metabolism, 2022, 42, 543-558.	2.4	17
118	Deep and compact dentinal tubule occlusion via biomimetic mineralization and mineral overgrowth. Nanoscale, 2022, 14, 642-652.	2.8	17
119	Progress on Biomimetic Mineralization and Materials for Hard Tissue Regeneration. ACS Biomaterials Science and Engineering, 2023, 9, 1757-1773.	2.6	17
120	Suppression of osteoclast multinucleation via a posttranscriptional regulationâ€“based spatiotemporally selective delivery system. Science Advances, 2022, 8, .	4.7	17
121	Switchable Chiral Selection of Aspartic Acids by Dynamic States of Brushite. Journal of the American Chemical Society, 2017, 139, 8562-8569.	6.6	16
122	Improvement in the Photobiological Hydrogen Production of Aggregated Chlorella by Dimethyl Sulfoxide. ChemBioChem, 2018, 19, 669-673.	1.3	16
123	Regulations of organism by materials: a new understanding of biological inorganic chemistry. Journal of Biological Inorganic Chemistry, 2019, 24, 467-481.	1.1	16
124	Overcoming Multiple Drug Resistance by Spatial-Temporal Synchronization of Epirubicin and Pooled siRNAs. Small, 2015, 11, 1775-1781.	5.2	15
125	Anisotropic Epitaxial Behavior in the Amorphous Phase-Mediated Hydroxyapatite Crystallization Process: A New Understanding of Orientation Control. Journal of Physical Chemistry Letters, 2019, 10, 7611-7616.	2.1	15
126	Therapeutic Management of Demineralized Dentin Surfaces Using a Mineralizing Adhesive To Seal and Mineralize Dentin, Dentinal Tubules, and Odontoblast Processes. ACS Biomaterials Science and Engineering, 2019, 5, 5481-5488.	2.6	14

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127	Understanding Anisotropic Growth of Au Penta-Twinned Nanorods by Liquid Cell Transmission Electron Microscopy. Journal of Physical Chemistry Letters, 2019, 10, 1443-1449.	2.1	14
128	Melatonin Ameliorates Hemorrhagic Transformation via Suppression of ROS-Induced NLRP3 Activation after Cerebral Ischemia in Hyperglycemic Rats. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-12.	1.9	14
129	Long-term Effect of Biomineralized Insulin Nanoparticles on Type 2 Diabetes Treatment. Theranostics, 2017, 7, 4301-4312.	4.6	13
130	Chameleon-Inspired Stress-Responsive Multicolored Ultratough Films. ACS Applied Materials & Interfaces, 2020, 12, 36731-36739.	4.0	13
131	Neurosteroids: A novel promise for the treatment of stroke and postâ€stroke complications. Journal of Neurochemistry, 2022, 160, 113-127.	2.1	13
132	Tannic acid induces dentin biomineralization by crosslinking and surface modification. RSC Advances, 2022, 12, 3454-3464.	1.7	13
133	Colour tuning of coreâ€“shell fluorescent materials. Journal of Materials Chemistry, 2008, 18, 5363.	6.7	12
134	Preparing nano-calcium phosphate particles via a biologically friendly pathway. Biomedical Materials (Bristol), 2010, 5, 041001.	1.7	12
135	A Drugâ€Free Tumor Therapy Strategy: Cancerâ€Cellâ€Targeting Calcification. Angewandte Chemie, 2016, 128, 5311-5315.	1.6	12
136	Intracellular delivery of biomineralized monoclonal antibodies to combat viral infection. Chemical Communications, 2016, 52, 1879-1882.	2.2	12
137	Shell-mediated phagocytosis to reshape viral-vectored vaccine-induced immunity. Biomaterials, 2021, 276, 121062.	5.7	12
138	Engineered osteoclasts as living treatment materials for heterotopic ossification therapy. Nature Communications, 2021, 12, 6327.	5.8	12
139	Phytochemical Investigation and Cytotoxic Evaluation of the Components of the Medicinal Plant Ligularia atroviolacea. Chemistry and Biodiversity, 2009, 6, 1053-1065.	1.0	11
140	Phaseâ€controlled crystallization of amorphous calcium carbonate in ethanolâ€water binary solvents. Crystal Research and Technology, 2015, 50, 312-318.	0.6	11
141	Size effect of nano-hydroxyapatite on proliferation of odontoblast-like MDPC-23 cells. Dental Materials Journal, 2019, 38, 534-539.	0.8	11
142	A Biomimetic Model for Mineralization of Type-I Collagen Fibrils. Methods in Molecular Biology, 2019, 1944, 39-54.	0.4	11
143	HIF-1Î± Mediates TRAIL-Induced Neuronal Apoptosis via Regulating DcR1 Expression Following Traumatic Brain Injury. Frontiers in Cellular Neuroscience, 2020, 14, 192.	1.8	11
144	Novel nanomaterialâ€“organism hybrids with biomedical potential. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2021, 13, e1706.	3.3	11

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145	Nano-hydroxyapatite accelerates vascular calcification via lysosome impairment and autophagy dysfunction in smooth muscle cells. Bioactive Materials, 2022, 8, 478-493.	8.6	11
146	Mechanism of promoted dipeptide formation on hydroxyapatite crystal surfaces. Science Bulletin, 2011, 56, 633-639.	1.7	10
147	Solvothermal synthesis of Î²-tricalcium phosphate porous nanospheres by using organic phosphorus source and their biomedical potentials. RSC Advances, 2015, 5, 23958-23964.	1.7	10
148	Quantitative investigation of the formation and growth of palladium fractal nanocrystals by liquid-cell transmission electron microscopy. Chemical Communications, 2019, 55, 8186-8189.	2.2	10
149	The formation and shape transformation mechanism of a triangular Au nanoplate revealed by liquid-cell TEM. Nanoscale, 2020, 12, 19592-19596.	2.8	10
150	Hydroxypropylmethylcellulose as a film and hydrogel carrier for ACP nanoprecursors to deliver biomimetic mineralization. Journal of Nanobiotechnology, 2021, 19, 385.	4.2	10
151	Impact of interfacial high-density water layer on accurate estimation of adsorption free energy by Jarzynski's equality. Journal of Chemical Physics, 2014, 140, 034706.	1.2	9
152	Rational Design of a Replicationâ€Competent and Inheritable Magnetic Viruses for Targeting Biomedical Applications. Small, 2020, 16, e2002435.	5.2	9
153	Effect of aspartic acid on the crystallization kinetics of ACP and dentin remineralization. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 115, 104226.	1.5	9
154	Biomineralization: Biomimetic Synthesis of Materials and Biomimetic Regulation of Organisms. Chinese Journal of Chemistry, 2021, 39, 2071-2082.	2.6	9
155	Development of a nomogram for predicting clinical outcome in patients with angiogramâ€negative subarachnoid hemorrhage. CNS Neuroscience and Therapeutics, 2021, 27, 1339-1347.	1.9	9
156	Oxidative Stress-Induced Ferroptosis in Cardiovascular Diseases and Epigenetic Mechanisms. Frontiers in Cell and Developmental Biology, 2021, 9, 685775.	1.8	9
157	SDF-1Î±/MicroRNA-134 Axis Regulates Nonfunctioning Pituitary Neuroendocrine Tumor Growth via Targeting VEGFA. Frontiers in Endocrinology, 2020, 11, 566761.	1.5	8
158	Protective effect of c-Myc/Rab7a signal pathway in glioblastoma cells under hypoxia. Annals of Translational Medicine, 2020, 8, 283-283.	0.7	8
159	Pacemaker implantation in patients with major depression, should it be of concern? A case report and literature review. BMC Cardiovascular Disorders, 2020, 20, 279.	0.7	7
160	Deep venous drainage variant rate and degree may be higher in patients with perimesencephalic than in non-perimesencephalic angiogram-negative subarachnoid hemorrhage. European Radiology, 2021, 31, 1290-1299.	2.3	7
161	Construction of Inorganic Bulks through Coalescence of Particle Precursors. Nanomaterials, 2021, 11, 241.	1.9	7
162	Intraosseous Injection of Calcium Phosphate Polymer-Induced Liquid Precursor Increases Bone Density and Improves Early Implant Osseointegration in Ovariectomized Rats. International Journal of Nanomedicine, 2021, Volume 16, 6217-6229.	3.3	7

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163	Lamellar organicâ€“inorganic architecture via classical screw growth. CrystEngComm, 2012, 14, 7184.	1.3	6
164	Realignment of Nanocrystal Aggregates into Single Crystals as a Result of Inherent Surface Stress. Angewandte Chemie, 2016, 128, 13028-13032.	1.6	6
165	Revealing Au₁₃ as Elementary Clusters During the Early Formation of Au Nanocrystals. Journal of Physical Chemistry Letters, 2021, 12, 5938-5943.	2.1	6
166	Inhibition of proliferation of osteosarcoma by nano calcium phosphates: potential hard tissue repair after tumor extraction. Frontiers of Materials Science in China, 2007, 1, 30-34.	0.5	5
167	Effect of stressâ€induced hyperglycemia after nonâ€traumatic nonâ€aneurysmal subarachnoid hemorrhage on clinical complications and functional outcomes. CNS Neuroscience and Therapeutics, 2022, 28, 942-952.	1.9	5
168	Influence of viscosity on the phase transformation of amorphous calcium carbonate in fluids: An understanding of the medium effect in biomimetic mineralization. Science China Chemistry, 2010, 53, 2208-2214.	4.2	4
169	Could a mineralized state of avian flu virus be dangerous to humans?. Future Virology, 2018, 13, 79-81.	0.9	4
170	A Macromolecular Drug for Cancer Therapy via Extracellular Calcification. Angewandte Chemie, 2021, 133, 6583-6591.	1.6	4
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172	Oriented Crystallization of Hydroxyapatite in Self-Assembled Peptide Fibrils as a Bonelike Material. ACS Biomaterials Science and Engineering, 2023, 9, 1808-1814.	2.6	4
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