

Ruikang Tang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

188
papers

5,213
citations

40
h-index

65
g-index

203
ext. papers

6,506
ext. citations

8.6
avg, IF

5.87
L-index

#	Paper	IF	Citations
188	Tannic acid induces dentin biomineralization by crosslinking and surface modification.. <i>RSC Advances</i> , 2022 , 12, 3454-3464	3.7	3
187	Inhibition of caspase-1-mediated inflammasome activation reduced blood coagulation in cerebrospinal fluid after subarachnoid haemorrhage.. <i>EBioMedicine</i> , 2022 , 76, 103843	8.8	1
186	Cepharanthine Attenuates Early Brain Injury after Subarachnoid Hemorrhage in Mice via Inhibiting 15-Lipoxygenase-1-Mediated Microglia and Endothelial Cell Ferroptosis.. <i>Oxidative Medicine and Cellular Longevity</i> , 2022 , 2022, 4295208	6.7	1
185	Nano-hydroxyapatite accelerates vascular calcification via lysosome impairment and autophagy dysfunction in smooth muscle cells. <i>Bioactive Materials</i> , 2022 , 8, 478-493	16.7	2
184	Crosstalk Between the Oxidative Stress and Glia Cells After Stroke: From Mechanism to Therapies.. <i>Frontiers in Immunology</i> , 2022 , 13, 852416	8.4	3
183	Microglia and Neuroinflammation: Crucial Pathological Mechanisms in Traumatic Brain Injury-Induced Neurodegeneration.. <i>Frontiers in Aging Neuroscience</i> , 2022 , 14, 825086	5.3	5
182	Biomimetic mineralization: An emerging organism engineering strategy for biomedical applications.. <i>Journal of Inorganic Biochemistry</i> , 2022 , 232, 111815	4.2	3
181	Systemic and single cell level responses to 1 μ m size biomaterials demonstrate distinct biological effects revealed by multi-omics atlas.. <i>Bioactive Materials</i> , 2022 , 18, 199-212	16.7	1
180	Injectable Dual-Dynamic-Bond Cross-Linked Hydrogel for Highly Efficient Infected Diabetic Wound Healing.. <i>Advanced Healthcare Materials</i> , 2022 , e2200516	10.1	1
179	TRP Family Genes Are Differently Expressed and Correlated with Immune Response in Glioma. <i>Brain Sciences</i> , 2022 , 12, 662	3.4	0
178	A flexible and degradable hybrid mineral as a plastic substitute.. <i>Advanced Materials</i> , 2021 , e2107523	24	9
177	Diagnostic Value of Non-Contrast CT in Cerebrospinal Fluid Leakage After Endoscopic Transnasal Surgery for Sellar and Suprasellar Tumors.. <i>Frontiers in Oncology</i> , 2021 , 11, 735778	5.3	
176	Engineered osteoclasts as living treatment materials for heterotopic ossification therapy. <i>Nature Communications</i> , 2021 , 12, 6327	17.4	1
175	A new perspective on cerebrospinal fluid dynamics after subarachnoid hemorrhage: From normal physiology to pathophysiological changes. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021 , 271678X211045748	7.3	1
174	Hydroxypropylmethylcellulose as a film and hydrogel carrier for ACP nanoprecursors to deliver biomimetic mineralization. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 385	9.4	1
173	Prussian Blue/Calcium Peroxide Nanocomposites-Mediated Tumor Cell Iron Mineralization for Treatment of Experimental Lung Adenocarcinoma. <i>ACS Nano</i> , 2021 ,	16.7	4
172	Trilogy Development of Proopiomelanocortin Neurons From Embryonic to Adult Stages in the Mice Retina. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 718851	5.7	0

171 Biomineralization **2021**,

170	Peritumoral Edema Is Associated With Postoperative Hemorrhage and Reoperation Following Vestibular Schwannoma Surgery. <i>Frontiers in Oncology</i> , 2021 , 11, 633350	5.3	0
169	Melatonin Ameliorates Hemorrhagic Transformation via Suppression of ROS-Induced NLRP3 Activation after Cerebral Ischemia in Hyperglycemic Rats. <i>Oxidative Medicine and Cellular Longevity</i> , 2021 , 2021, 6659282	6.7	4
168	A Highly Sensitive, Reversible, and Bidirectional Humidity Actuator by Calcium Carbonate Ionic Oligomers Incorporated Poly(Vinylidene Fluoride). <i>Advanced Functional Materials</i> , 2021 , 31, 2101291	15.6	15
167	Endoscopic Endonasal Transclival Approach to Ventral Pontine Cavernous Malformation: Case Report. <i>Frontiers in Surgery</i> , 2021 , 8, 654837	2.3	0
166	Revealing Au as Elementary Clusters During the Early Formation of Au Nanocrystals. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5938-5943	6.4	1
165	An updated review of autophagy in ischemic stroke: From mechanisms to therapies. <i>Experimental Neurology</i> , 2021 , 340, 113684	5.7	9
164	Pressure-driven fusion of amorphous particles into integrated monoliths. <i>Science</i> , 2021 , 372, 1466-1470	33.3	11
163	Biomineralization: Biomimetic Synthesis of Materials and Biomimetic Regulation of Organisms. <i>Chinese Journal of Chemistry</i> , 2021 , 39, 2071-2082	4.9	4
162	Development of a nomogram for predicting clinical outcome in patients with angiogram-negative subarachnoid hemorrhage. <i>CNS Neuroscience and Therapeutics</i> , 2021 , 27, 1339-1347	6.8	3
161	Improvement of organisms by biomimetic mineralization: A material incorporation strategy for biological modification. <i>Acta Biomaterialia</i> , 2021 , 120, 57-80	10.8	11
160	Effect of aspartic acid on the crystallization kinetics of ACP and dentin remineralization. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 115, 104226	4.1	7
159	Polyelectrolyte-calcium complexes as a pre-precursor induce biomimetic mineralization of collagen. <i>Nanoscale</i> , 2021 , 13, 953-967	7.7	14
158	Organism-Materials Integration: A Promising Strategy for Biomedical Applications. <i>Advanced NanoBiomed Research</i> , 2021 , 1, 2000044	0	1
157	Deep venous drainage variant rate and degree may be higher in patients with perimesencephalic than in non-perimesencephalic angiogram-negative subarachnoid hemorrhage. <i>European Radiology</i> , 2021 , 31, 1290-1299	8	2
156	Construction of Inorganic Bulks through Coalescence of Particle Precursors. <i>Nanomaterials</i> , 2021 , 11,	5.4	2
155	A Macromolecular Drug for Cancer Therapy via Extracellular Calcification. <i>Angewandte Chemie</i> , 2021 , 133, 6583-6591	3.6	2
154	Ceria nanoparticles ameliorate white matter injury after intracerebral hemorrhage: microglia-astrocyte involvement in remyelination. <i>Journal of Neuroinflammation</i> , 2021 , 18, 43	10.1	16

153	Titelbild: A Macromolecular Drug for Cancer Therapy via Extracellular Calcification (Angew. Chem. 12/2021). <i>Angewandte Chemie</i> , 2021 , 133, 6253-6253	3.6	
152	Solid-State Nuclear Magnetic Resonance Identifies Abnormal Calcium Phosphate Formation in Diseased Bones. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 1159-1168	5.5	1
151	A Macromolecular Drug for Cancer Therapy via Extracellular Calcification. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6509-6517	16.4	15
150	Novel nanomaterial-organism hybrids with biomedical potential. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2021 , 13, e1706	9.2	3
149	Oxidative Stress-Induced Ferroptosis in Cardiovascular Diseases and Epigenetic Mechanisms. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 685775	5.7	2
148	Phase Transformation Mechanism of Amorphous Calcium Phosphate to Hydroxyapatite Investigated by Liquid-Cell Transmission Electron Microscopy. <i>Crystal Growth and Design</i> , 2021 , 21, 5126-5134	3.5	3
147	Shell-mediated phagocytosis to reshape viral-vectored vaccine-induced immunity. <i>Biomaterials</i> , 2021 , 276, 121062	15.6	3
146	Neurosteroids: A novel promise for the treatment of stroke and post-stroke complications. <i>Journal of Neurochemistry</i> , 2021 ,	6	2
145	Intraosseous Injection of Calcium Phosphate Polymer-Induced Liquid Precursor Increases Bone Density and Improves Early Implant Osseointegration in Ovariectomized Rats. <i>International Journal of Nanomedicine</i> , 2021 , 16, 6217-6229	7.3	1
144	Mer regulates microglial/macrophage M1/M2 polarization and alleviates neuroinflammation following traumatic brain injury. <i>Journal of Neuroinflammation</i> , 2021 , 18, 2	10.1	22
143	SDF-1 α /MicroRNA-134 Axis Regulates Nonfunctioning Pituitary Neuroendocrine Tumor Growth Targeting VEGFA. <i>Frontiers in Endocrinology</i> , 2020 , 11, 566761	5.7	3
142	Protective effect of c-Myc/Rab7a signal pathway in glioblastoma cells under hypoxia. <i>Annals of Translational Medicine</i> , 2020 , 8, 283	3.2	2
141	Recent experimental explorations of non-classical nucleation. <i>CrystEngComm</i> , 2020 , 22, 4057-4073	3.3	17
140	Polydopamine Promotes Dentin Remineralization via Interfacial Control. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 3327-3334	5.5	9
139	Pacemaker implantation in patients with major depression, should it be of concern? A case report and literature review. <i>BMC Cardiovascular Disorders</i> , 2020 , 20, 279	2.3	3
138	Towards an Understanding of Crystallization by Attachment. <i>Crystals</i> , 2020 , 10, 463	2.3	1
137	Surface-anchored framework for generating RhD-epitope stealth red blood cells. <i>Science Advances</i> , 2020 , 6, eaaw9679	14.3	21
136	High strength brushite bioceramics obtained by selective regulation of crystal growth with chiral biomolecules. <i>Acta Biomaterialia</i> , 2020 , 106, 351-359	10.8	14

135	Shape-preserving amorphous-to-crystalline transformation of CaCO revealed by in situ TEM. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 3397-3404	11.5	44
134	Programmed Cell Deaths and Potential Crosstalk With Blood-Brain Barrier Dysfunction After Hemorrhagic Stroke. <i>Frontiers in Cellular Neuroscience</i> , 2020 , 14, 68	6.1	35
133	Promotion effect of immobilized chondroitin sulfate on intrafibrillar mineralization of collagen. <i>Carbohydrate Polymers</i> , 2020 , 229, 115547	10.3	14
132	Organic-Inorganic Copolymerization for a Homogenous Composite without an Interphase Boundary. <i>Angewandte Chemie</i> , 2020 , 132, 2087-2091	3.6	
131	Biomimetic Mineralized Organic-Inorganic Hybrid Macrofiber with Spider Silk-Like Supertoughness. <i>Advanced Functional Materials</i> , 2020 , 30, 1908556	15.6	40
130	Organic-Inorganic Copolymerization for a Homogenous Composite without an Interphase Boundary. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 2071-2075	16.4	31
129	The Role of Exosomal microRNAs and Oxidative Stress in Neurodegenerative Diseases. <i>Oxidative Medicine and Cellular Longevity</i> , 2020 , 2020, 3232869	6.7	19
128	Chameleon-Inspired Stress-Responsive Multicolored Ultratough Films. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 36731-36739	9.5	4
127	Muscle-like Ultratough Hybrid Hydrogel Constructed by Heterogeneous Inorganic Polymerization on an Organic Network. <i>ACS Applied Materials & Interfaces</i> , 2020 ,	9.5	9
126	HIF-1 β Mediates TRAIL-Induced Neuronal Apoptosis Regulating Dcr1 Expression Following Traumatic Brain Injury. <i>Frontiers in Cellular Neuroscience</i> , 2020 , 14, 192	6.1	4
125	The formation and shape transformation mechanism of a triangular Au nanoplate revealed by liquid-cell TEM. <i>Nanoscale</i> , 2020 , 12, 19592-19596	7.7	3
124	Smart Nanosacrificial Layer on the Bone Surface Prevents Osteoporosis through Acid-Base Neutralization Regulated Biocascade Effects. <i>Journal of the American Chemical Society</i> , 2020 , 142, 17543-17556	16.4	10
123	Rational Design of a Replication-Competent and Inheritable Magnetic Viruses for Targeting Biomedical Applications. <i>Small</i> , 2020 , 16, e2002435	11	3
122	Calcium Phosphate Nanocluster-Loaded Injectable Hydrogel for Bone Regeneration.. <i>ACS Applied Bio Materials</i> , 2019 , 2, 4408-4417	4.1	6
121	Repair of tooth enamel by a biomimetic mineralization frontier ensuring epitaxial growth. <i>Science Advances</i> , 2019 , 5, eaaw9569	14.3	81
120	Therapeutic Management of Demineralized Dentin Surfaces Using a Mineralizing Adhesive To Seal and Mineralize Dentin, Dentinal Tubules, and Odontoblast Processes. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 5481-5488	5.5	3
119	Phosphorylated chitosan to promote biomimetic mineralization of type I collagen as a strategy for dentin repair and bone tissue engineering. <i>New Journal of Chemistry</i> , 2019 , 43, 2002-2010	3.6	18
118	Quantitative investigation of the formation and growth of palladium fractal nanocrystals by liquid-cell transmission electron microscopy. <i>Chemical Communications</i> , 2019 , 55, 8186-8189	5.8	5

117	Regulations of organism by materials: a new understanding of biological inorganic chemistry. <i>Journal of Biological Inorganic Chemistry</i> , 2019 , 24, 467-481	3.7	11
116	Size effect of nano-hydroxyapatite on proliferation of odontoblast-like MDPC-23 cells. <i>Dental Materials Journal</i> , 2019 , 38, 534-539	2.5	7
115	Revealing the Cluster-Cloud and Its Role in Nanocrystallization. <i>Advanced Materials</i> , 2019 , 31, e1808225	24	26
114	Understanding Anisotropic Growth of Au Penta-Twinned Nanorods by Liquid Cell Transmission Electron Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 1443-1449	6.4	10
113	A Biomimetic Model for Mineralization of Type-I Collagen Fibrils. <i>Methods in Molecular Biology</i> , 2019 , 1944, 39-54	1.4	6
112	Osteoporotic Bone Recovery by a Highly Bone-Inductive Calcium Phosphate Polymer-Induced Liquid-Precursor. <i>Advanced Science</i> , 2019 , 6, 1900683	13.6	38
111	Fabrication of collagen membranes with different intrafibrillar mineralization degree as a potential use for GBR. <i>Materials Science and Engineering C</i> , 2019 , 104, 109959	8.3	18
110	Incorporation of small extracellular vesicles in sodium alginate hydrogel as a novel therapeutic strategy for myocardial infarction. <i>Theranostics</i> , 2019 , 9, 7403-7416	12.1	66
109	Biom mineralization improves the thermostability of foot-and-mouth disease virus-like particles and the protective immune response induced. <i>Nanoscale</i> , 2019 , 11, 22748-22761	7.7	11
108	Anisotropic Epitaxial Behavior in the Amorphous Phase-Mediated Hydroxyapatite Crystallization Process: A New Understanding of Orientation Control. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 7611-7616	6.4	9
107	Crosslinking ionic oligomers as conformable precursors to calcium carbonate. <i>Nature</i> , 2019 , 574, 394-398	90.4	84
106	Improvement in the Photobiological Hydrogen Production of Aggregated Chlorella by Dimethyl Sulfoxide. <i>ChemBioChem</i> , 2018 , 19, 669-673	3.8	10
105	Could a mineralized state of avian flu virus be dangerous to humans?. <i>Future Virology</i> , 2018 , 13, 79-81	2.4	2
104	Biom mineralization State of Viruses and Their Biological Potential. <i>Chemistry - A European Journal</i> , 2018 , 24, 11518-11529	4.8	16
103	Citrate Improves Collagen Mineralization via Interface Wetting: A Physicochemical Understanding of Biom mineralization Control. <i>Advanced Materials</i> , 2018 , 30, 1704876	24	88
102	Nanoparticle Counting by Microscopic Digital Detection: Selective Quantitative Analysis of Exosomes via Surface-Anchored Nucleic Acid Amplification. <i>Analytical Chemistry</i> , 2018 , 90, 6556-6562	7.8	41
101	Amorphous Phase Mediated Crystallization: Fundamentals of Biom mineralization. <i>Crystals</i> , 2018 , 8, 48	2.3	28
100	Therapeutic Potential of Biom mineralization-Based Engineering. <i>Advanced Therapeutics</i> , 2018 , 1, 1800079	4.9	10

99	A novel fluorescent adhesive-assisted biomimetic mineralization. <i>Nanoscale</i> , 2018 , 10, 18980-18987	7.7	18
98	Artificial Organelles: Nanomaterial-Based Organelles Protect Normal Cells against Chemotherapy-Induced Cytotoxicity (Adv. Mater. 27/2018). <i>Advanced Materials</i> , 2018 , 30, 1870202	24	2
97	In Situ Liquid Cell TEM Reveals Bridge-Induced Contact and Fusion of Au Nanocrystals in Aqueous Solution. <i>Nano Letters</i> , 2018 , 18, 6551-6556	11.5	51
96	Synergic Effect of Sr ²⁺ and Mg ²⁺ on the Stabilization of Amorphous Calcium Phosphate. <i>Crystal Growth and Design</i> , 2018 , 18, 6054-6060	3.5	11
95	Nanomaterial-Based Organelles Protect Normal Cells against Chemotherapy-Induced Cytotoxicity. <i>Advanced Materials</i> , 2018 , 30, e1801304	24	29
94	Biom mineralization: From Material Tactics to Biological Strategy. <i>Advanced Materials</i> , 2017 , 29, 1605903	24	140
93	Protection of Photosynthetic Algae against Ultraviolet Radiation by One-Step CeO Shellization. <i>Langmuir</i> , 2017 , 33, 2454-2459	4	21
92	Switchable Chiral Selection of Aspartic Acids by Dynamic States of Brushite. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8562-8569	16.4	12
91	Self-Etch Adhesive as a Carrier for ACP Nanoprecursors to Deliver Biomimetic Remineralization. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 17710-17717	9.5	20
90	Prevention of Cyanobacterial Blooms Using Nanosilica: A Biom mineralization-Inspired Strategy. <i>Environmental Science & Technology</i> , 2017 , 51, 12717-12726	10.3	18
89	Biomimetic inorganic camouflage circumvents antibody-dependent enhancement of infection. <i>Chemical Science</i> , 2017 , 8, 8240-8246	9.4	13
88	Innentitelbild: Mineralized State of the Avian Influenza Virus in the Environment (Angew. Chem. 42/2017). <i>Angewandte Chemie</i> , 2017 , 129, 12968-12968	3.6	
87	Mineralized State of the Avian Influenza Virus in the Environment. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12908-12912	16.4	15
86	Mineralized State of the Avian Influenza Virus in the Environment. <i>Angewandte Chemie</i> , 2017 , 129, 13088-13092	16.4	15
85	Total morphosynthesis of biomimetic prismatic-type CaCO thin films. <i>Nature Communications</i> , 2017 , 8, 1398	17.4	38
84	Effect of the aggregation state of amorphous calcium phosphate on hydroxyapatite nucleation kinetics. <i>RSC Advances</i> , 2017 , 7, 25497-25503	3.7	22
83	Long-term Effect of Biom mineralized Insulin Nanoparticles on Type 2 Diabetes Treatment. <i>Theranostics</i> , 2017 , 7, 4301-4312	12.1	10
82	In vivo dual-targeted chemotherapy of drug resistant cancer by rationally designed nanocarrier. <i>Biomaterials</i> , 2016 , 75, 71-81	15.6	51

81	Innenrücktitelbild: Realignment of Nanocrystal Aggregates into Single Crystals as a Result of Inherent Surface Stress (Angew. Chem. 41/2016). <i>Angewandte Chemie</i> , 2016 , 128, 13105-13105	3.6	
80	Biomaterialized vaccine nanohybrid for needle-free intranasal immunization. <i>Biomaterials</i> , 2016 , 106, 286-94	15.6	23
79	Evolution from Classical to Non-classical Aggregation-Based Crystal Growth of Calcite by Organic Additive Control. <i>Langmuir</i> , 2016 , 32, 8999-9004	4	12
78	Realignment of Nanocrystal Aggregates into Single Crystals as a Result of Inherent Surface Stress. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 12836-40	16.4	24
77	Cells Recognize and Prefer Bone-like Hydroxyapatite: Biochemical Understanding of Ultrathin Mineral Platelets in Bone. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 29997-30004	9.5	19
76	A Drug-Free Tumor Therapy Strategy: Cancer-Cell-Targeting Calcification. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 5225-9	16.4	62
75	Glutaraldehyde-induced remineralization improves the mechanical properties and biostability of dentin collagen. <i>Materials Science and Engineering C</i> , 2016 , 67, 657-665	8.3	24
74	Improvement of Biological Organisms Using Functional Material Shells. <i>Advanced Functional Materials</i> , 2016 , 26, 1862-1880	15.6	60
73	Vaccine Engineering with Dual-Functional Mineral Shell: A Promising Strategy to Overcome Preexisting Immunity. <i>Advanced Materials</i> , 2016 , 28, 694-700	24	33
72	A Drug-Free Tumor Therapy Strategy: Cancer-Cell-Targeting Calcification. <i>Angewandte Chemie</i> , 2016 , 128, 5311-5315	3.6	10
71	Less is more: silicate in the crystallization of hydroxyapatite in simulated body fluids. <i>CrystEngComm</i> , 2016 , 18, 379-383	3.3	16
70	Robust vaccine formulation produced by assembling a hybrid coating of polyethyleneimine-silica. <i>Chemical Science</i> , 2016 , 7, 1753-1759	9.4	21
69	Intracellular delivery of biomaterialized monoclonal antibodies to combat viral infection. <i>Chemical Communications</i> , 2016 , 52, 1879-82	5.8	9
68	Realignment of Nanocrystal Aggregates into Single Crystals as a Result of Inherent Surface Stress. <i>Angewandte Chemie</i> , 2016 , 128, 13028-13032	3.6	3
67	Alumina-encapsulated vaccine formulation with improved thermostability and immunogenicity. <i>Chemical Communications</i> , 2016 , 52, 6447-50	5.8	14
66	High efficient multifunctional Ag ₃ PO ₄ loaded hydroxyapatite nanowires for water treatment. <i>Journal of Hazardous Materials</i> , 2015 , 299, 379-87	12.8	39
65	The effect of amorphous calcium phosphate on protein protection against thermal denaturation. <i>Chemical Communications</i> , 2015 , 51, 8705-7	5.8	20
64	Solvothermal synthesis of tricalcium phosphate porous nanospheres by using organic phosphorus source and their biomedical potentials. <i>RSC Advances</i> , 2015 , 5, 23958-23964	3.7	10

63	Virus capture and destruction by label-free graphene oxide for detection and disinfection applications. <i>Small</i> , 2015 , 11, 1171-6	11	91
62	Overcoming multiple drug resistance by spatial-temporal synchronization of epirubicin and pooled siRNAs. <i>Small</i> , 2015 , 11, 1775-81	11	12
61	Silicification-Induced Cell Aggregation for the Sustainable Production of H ₂ under Aerobic Conditions. <i>Angewandte Chemie</i> , 2015 , 127, 12129-12133	3.6	21
60	Silicification-induced cell aggregation for the sustainable production of H ₂ under aerobic conditions. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11961-5	16.4	43
59	Phase-controlled crystallization of amorphous calcium carbonate in ethanol-water binary solvents. <i>Crystal Research and Technology</i> , 2015 , 50, 312-318	1.3	11
58	Hydrated silica exterior produced by biomimetic silicification confers viral vaccine heat-resistance. <i>ACS Nano</i> , 2015 , 9, 799-808	16.7	43
57	Amorphous calcium phosphate phase-mediated crystal nucleation kinetics and pathway. <i>Faraday Discussions</i> , 2015 , 179, 451-61	3.6	45
56	Antigenically shielded universal red blood cells by polydopamine-based cell surface engineering. <i>Chemical Science</i> , 2014 , 5, 3463-3468	9.4	61
55	Toward a Detailed Understanding of Magnesium Ions on Hydroxyapatite Crystallization Inhibition. <i>Crystal Growth and Design</i> , 2014 , 14, 763-769	3.5	102
54	Biomimetic promotion of dentin remineralization using l-glutamic acid: inspiration from biomineralization proteins. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 4544-4553	7.3	39
53	Nanomodification of living organisms by biomimetic mineralization. <i>Nano Research</i> , 2014 , 7, 1404-1428	10	34
52	Nano regulation of cisplatin chemotherapeutic behaviors by biomineralization controls. <i>Small</i> , 2014 , 10, 3644-9	11	15
51	Stabilizing amorphous calcium phosphate phase by citrate adsorption. <i>CrystEngComm</i> , 2014 , 16, 1864-1867	3.3	49
50	Biomimetic graphene oxide/hydroxyapatite composites via in situ mineralization and hierarchical assembly. <i>RSC Advances</i> , 2014 , 4, 25398-25403	3.7	29
49	Hierarchical structure and mechanical properties of remineralized dentin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014 , 40, 297-306	4.1	16
48	Impact of interfacial high-density water layer on accurate estimation of adsorption free energy by Jarzynski's equality. <i>Journal of Chemical Physics</i> , 2014 , 140, 034706	3.9	7
47	Faster nucleation at lower pH: amorphous phase mediated nucleation kinetics. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 12530-3	3.6	29
46	Overcoming cisplatin resistance in chemotherapy by biomineralization. <i>Chemical Communications</i> , 2013 , 49, 4932-4	5.8	22

45	Alleviation of high light-induced photoinhibition in cyanobacteria by artificially conferred biosilica shells. <i>Chemical Communications</i> , 2013 , 49, 7525-7	5.8	65
44	Ultra-high payload of doxorubicin and pH-responsive drug release in CuS nanocages for a combination of chemotherapy and photothermal therapy. <i>RSC Advances</i> , 2013 , 3, 23133	3.7	22
43	Hydration layer structures on calcite facets and their roles in selective adsorptions of biomolecules: a molecular dynamics study. <i>Journal of Chemical Physics</i> , 2013 , 139, 234705	3.9	36
42	Rational design of thermostable vaccines by engineered peptide-induced virus self-biomineralization under physiological conditions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 7619-24	11.5	107
41	Lamellar organic/inorganic architecture via classical screw growth. <i>CrystEngComm</i> , 2012 , 14, 7184	3.3	6
40	Eggshell-Inspired Biomineralization Generates Vaccines that Do Not Require Refrigeration. <i>Angewandte Chemie</i> , 2012 , 124, 10728-10731	3.6	16
39	Eggshell-inspired biomineralization generates vaccines that do not require refrigeration. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10576-9	16.4	37
38	Biomineralization-based virus shell-engineering: towards neutralization escape and tropism expansion. <i>Advanced Healthcare Materials</i> , 2012 , 1, 443-9	10.1	45
37	Virus-Shell Engineering: Biomineralization-Based Virus Shell-Engineering: Towards Neutralization Escape and Tropism Expansion (Adv. Healthcare Mater. 4/2012). <i>Advanced Healthcare Materials</i> , 2012 , 1, 366-366	10.1	
36	Unique roles of acidic amino acids in phase transformation of calcium phosphates. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 1151-7	3.4	45
35	Mechanism of promoted dipeptide formation on hydroxyapatite crystal surfaces. <i>Science Bulletin</i> , 2011 , 56, 633-639		10
34	Bio-inspired enamel repair via Glu-directed assembly of apatite nanoparticles: an approach to biomaterials with optimal characteristics. <i>Advanced Materials</i> , 2011 , 23, 4695-701	24	83
33	Guarding embryo development of zebrafish by shell engineering: a strategy to shield life from ozone depletion. <i>PLoS ONE</i> , 2010 , 5, e9963	3.7	25
32	Preparing nano-calcium phosphate particles via a biologically friendly pathway. <i>Biomedical Materials (Bristol)</i> , 2010 , 5, 041001	3.5	11
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