

# Changyu Shao

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

1,589  
citations

361413

20  
h-index

395702

33  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1872  
citing authors

#	ARTICLE	IF	CITATIONS
1	Biom mineralization: From Material Tactics to Biological Strategy. <i>Advanced Materials</i> , 2017, 29, 1605903.	21.0	239
2	Repair of tooth enamel by a biomimetic mineralization frontier ensuring epitaxial growth. <i>Science Advances</i> , 2019, 5, eaaw9569.	10.3	168
3	Crosslinking ionic oligomers as conformable precursors to calcium carbonate. <i>Nature</i> , 2019, 574, 394-398.	27.8	166
4	Citrate Improves Collagen Mineralization via Interface Wetting: A Physicochemical Understanding of Biom mineralization Control. <i>Advanced Materials</i> , 2018, 30, 1704876.	21.0	139
5	A Drug-Free Tumor Therapy Strategy: Cancer-Cell-Targeting Calcification. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5225-5229.	13.8	94
6	Osteoporotic Bone Recovery by a Highly Bone-Inductive Calcium Phosphate Polymer-Induced Liquid-Precursor. <i>Advanced Science</i> , 2019, 6, 1900683.	11.2	80
7	Silicification-Induced Cell Aggregation for the Sustainable Production of $H_2$ under Aerobic Conditions. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11961-11965.	13.8	68
8	Total morphosynthesis of biomimetic prismatic-type $CaCO_3$ thin films. <i>Nature Communications</i> , 2017, 8, 1398.	12.8	61
9	High efficient multifunctional $Ag_3PO_4$ loaded hydroxyapatite nanowires for water treatment. <i>Journal of Hazardous Materials</i> , 2015, 299, 379-387.	12.4	51
10	Nanomaterial-Based Organelles Protect Normal Cells against Chemotherapy-Induced Cytotoxicity. <i>Advanced Materials</i> , 2018, 30, e1801304.	21.0	49
11	Surface-anchored framework for generating RhD-epitope stealth red blood cells. <i>Science Advances</i> , 2020, 6, eaaw9679.	10.3	42
12	A novel fluorescent adhesive-assisted biomimetic mineralization. <i>Nanoscale</i> , 2018, 10, 18980-18987.	5.6	39
13	Self-Etch Adhesive as a Carrier for ACP Nanoprecursors to Deliver Biomimetic Remineralization. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 17710-17717.	8.0	33
14	Protection of Photosynthetic Algae against Ultraviolet Radiation by One-Step $CeO_2$ Shellization. <i>Langmuir</i> , 2017, 33, 2454-2459.	3.5	29
15	Promotion effect of immobilized chondroitin sulfate on intrafibrillar mineralization of collagen. <i>Carbohydrate Polymers</i> , 2020, 229, 115547.	10.2	29
16	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.	3.0	29
17	Prevention of Cyanobacterial Blooms Using Nanosilica: A Biom mineralization-Inspired Strategy. <i>Environmental Science &amp; Technology</i> , 2017, 51, 12717-12726.	10.0	28
18	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.	7.3	27

#	ARTICLE	IF	CITATIONS
19	Polydopamine Promotes Dentin Remineralization via Interfacial Control. ACS Biomaterials Science and Engineering, 2020, 6, 3327-3334.	5.2	22
20	Synergic Effect of Sr <sup>2+</sup> and Mg <sup>2+</sup> on the Stabilization of Amorphous Calcium Phosphate. Crystal Growth and Design, 2018, 18, 6054-6060.	3.0	20
21	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.	2.8	20
22	Calcium Phosphate Nanocluster-Loaded Injectable Hydrogel for Bone Regeneration. ACS Applied Bio Materials, 2019, 2, 4408-4417.	4.6	19
23	Deep and compact dentinal tubule occlusion <i>via</i> biomimetic mineralization and mineral overgrowth. Nanoscale, 2022, 14, 642-652.	5.6	17
24	Improvement in the Photobiological Hydrogen Production of Aggregated <i>Chlorella</i> by Dimethyl Sulfoxide. ChemBioChem, 2018, 19, 669-673.	2.6	16
25	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.	4.6	15
26	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.	5.2	14
27	Tannic acid induces dentin biomineralization by crosslinking and surface modification. RSC Advances, 2022, 12, 3454-3464.	3.6	13
28	A Drug-Free Tumor Therapy Strategy: Cancer-Cell-Targeting Calcification. Angewandte Chemie, 2016, 128, 5311-5315.	2.0	12
29	A Biomimetic Model for Mineralization of Type-I Collagen Fibrils. Methods in Molecular Biology, 2019, 1944, 39-54.	0.9	11
30	Effect of aspartic acid on the crystallization kinetics of ACP and dentin remineralization. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 115, 104226.	3.1	9
31	Oriented Crystallization of Hydroxyapatite in Self-Assembled Peptide Fibrils as a Bonelike Material. ACS Biomaterials Science and Engineering, 2023, 9, 1808-1814.	5.2	4
32	Artificial Organelles: Nanomaterial-Based Organelles Protect Normal Cells against Chemotherapy-Induced Cytotoxicity (Adv. Mater. 27/2018). Advanced Materials, 2018, 30, 1870202.	21.0	2