

# Zhaoyong Zou

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

2,119  
citations

279487  
23  
h-index

329751  
37  
g-index

39  
all docs

39  
docs citations

39  
times ranked

3009  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure-induced crystallization and densification of amorphized calcium carbonate hexahydrate controlled by interfacial water. <i>Journal of Colloid and Interface Science</i> , 2022, 611, 346-355.	5.0	10
2	Room-temperature growth of fluorapatite/CaCO <sub>3</sub> heterogeneous structured composites inspired by human tooth. <i>RSC Advances</i> , 2022, 12, 11084-11089.	1.7	0
3	Nanocage Ferritin Reinforced Polyacrylamide Hydrogel for Wearable Flexible Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 21278-21286.	4.0	30
4	Multiple crystallization pathways of amorphous calcium carbonate in the presence of poly(aspartic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.3	5
5	Bioprocess-inspired preparation of silica with varied morphologies and potential in lithium storage. <i>Journal of Materials Science and Technology</i> , 2021, 72, 61-68.	5.6	7
6	Bioprocess-inspired synthesis of multilayered chitosan/CaCO <sub>3</sub> composites with nacre-like structures and high mechanical properties. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5691-5697.	2.9	3
7	Mineralization of calcium phosphate induced by a silk fibroin film under different biological conditions. <i>RSC Advances</i> , 2021, 11, 18590-18596.	1.7	2
8	Bioprocess-Inspired Room-Temperature Synthesis of Enamel-like Fluorapatite/Polymer Nanocomposites Controlled by Magnesium Ions. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 25260-25269.	4.0	15
9	Hydroxyapatite-reinforced alginate fibers with bioinspired dually aligned architectures. <i>Carbohydrate Polymers</i> , 2021, 267, 118167.	5.1	14
10	Bioprocess-inspired synthesis of printable, self-healing mineral hydrogels for rapidly responsive, wearable ionic skin. <i>Chemical Engineering Journal</i> , 2021, 424, 130549.	6.6	33
11	Bioinspired 3D Printable, Self-Healable, and Stretchable Hydrogels with Multiple Conductivities for Skin-like Wearable Strain Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 2952-2960.	4.0	125
12	Nonclassical Crystallization of Amorphous Calcium Carbonate in the Presence of Phosphate Ions. <i>Crystal Growth and Design</i> , 2021, 21, 414-423.	1.4	21
13	Silk fibroin directs the formation of monetite nanocrystals and their assembly into hierarchical composites. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9136-9141.	2.9	2
14	In situ fabrication of 1D CdS nanorod/2D Ti <sub>3</sub> C <sub>2</sub> MXene nanosheet Schottky heterojunction toward enhanced photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118382.	10.8	429
15	Bioprocess-Inspired Microscale Additive Manufacturing of Multilayered TiO <sub>2</sub> /Polymer Composites with Enamel-Like Structures and High Mechanical Properties. <i>Advanced Functional Materials</i> , 2020, 30, 1904880.	7.8	33
16	Hierarchical ultrathin carbon encapsulating transition metal doped MoP electrocatalysts for efficient and pH-universal hydrogen evolution reaction. <i>Nano Energy</i> , 2020, 70, 104445.	8.2	118
17	Revealing and accelerating interfacial charge carrier dynamics in Z-scheme heterojunctions for highly efficient photocatalytic oxygen evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118445.	10.8	69
18	Particle-attachment crystallization facilitates the occlusion of micrometer-sized <i>Escherichia coli</i> in calcium carbonate crystals with stable fluorescence. <i>Journal of Materials Chemistry B</i> , 2020, 8, 9269-9276.	2.9	8

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19	Three-dimensional structural interrelations between cells, extracellular matrix, and mineral in normally mineralizing avian leg tendon. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14102-14109.	3.3	39
20	Synthesis of monodisperse rod-shaped silica particles through biotemplating of surface-functionalized bacteria. Nanoscale, 2020, 12, 8732-8741.	2.8	10
21	Additives Control the Stability of Amorphous Calcium Carbonate via Two Different Mechanisms: Surface Adsorption versus Bulk Incorporation. Advanced Functional Materials, 2020, 30, 2000003.	7.8	49
22	Unveiling the Origin of the High Catalytic Activity of Ultrathin 1T/2H MoSe <sub>2</sub> Nanosheets for the Hydrogen Evolution Reaction: A Combined Experimental and Theoretical Study. ChemSusChem, 2019, 12, 5015-5022.	3.6	48
23	A hydrated crystalline calcium carbonate phase: Calcium carbonate hemihydrate. Science, 2019, 363, 396-400.	6.0	153
24	Growth and regrowth of adult sea urchin spines involve hydrated and anhydrous amorphous calcium carbonate precursors. Journal of Structural Biology: X, 2019, 1, 100004.	0.7	19
25	The Crystallization of Amorphous Calcium Carbonate is Kinetically Governed by Ion Impurities and Water. Advanced Science, 2018, 5, 1701000.	5.6	101
26	Additives influence the phase behavior of calcium carbonate solution by a cooperative ion-association process. Journal of Materials Chemistry B, 2018, 6, 449-457.	2.9	31
27	Reentrant phase transformation from crystalline ikaite to amorphous calcium carbonate. CrystEngComm, 2018, 20, 2902-2906.	1.3	8
28	On the Phase Diagram of Calcium Carbonate Solutions. Advanced Materials Interfaces, 2017, 4, 1600076.	1.9	33
29	Control of Polymorph Selection in Amorphous Calcium Carbonate Crystallization by Poly(Aspartic) Tj ETQq1 1 0.784314 rgBT /Overlo	5.2	46
30	Tunable Pseudocapacitance in 3D TiO <sub>2</sub> Nanomembranes Enabling Superior Lithium Storage Performance. ACS Nano, 2017, 11, 821-830.	7.3	124
31	Disordered Conformation with Low Pii Helix in Phosphoproteins Orchestrates Biomimetic Apatite Formation. Advanced Materials, 2017, 29, 1701629.	11.1	19
32	Opposite Particle Size Effect on Amorphous Calcium Carbonate Crystallization in Water and during Heating in Air. Chemistry of Materials, 2015, 27, 4237-4246.	3.2	80
33	Multilevel Hierarchically Ordered Artificial Biomineral. Small, 2014, 10, 152-159.	5.2	33
34	Hydrothermal synthesis and characterization of Si and Sr co-substituted hydroxyapatite nanowires using strontium containing calcium silicate as precursors. Materials Science and Engineering C, 2014, 37, 286-291.	3.8	57
35	Strontium substituted hydroxyapatite porous microspheres: Surfactant-free hydrothermal synthesis, enhanced biological response and sustained drug release. Chemical Engineering Journal, 2013, 222, 49-59.	6.6	166
36	Hollow magnetic hydroxyapatite microspheres with hierarchically mesoporous microstructure for pH-responsive drug delivery. CrystEngComm, 2013, 15, 2999.	1.3	62

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37	Ultrafast synthesis and characterization of carbonated hydroxyapatite nanopowders via sonochemistry-assisted microwave process. Ultrasonics Sonochemistry, 2012, 19, 1174-1179.	3.8	49
38	Dental enamel-like hydroxyapatite transformed directly from monetite. Journal of Materials Chemistry, 2012, 22, 22637.	6.7	66
39	Mussel directed synthesis of SnO <sub>2</sub> /graphene oxide composite for energy storage. Materials Chemistry Frontiers, 0, , .	3.2	2