

Zhaoyong Zou

List of Publications by Year in descending order

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39
papers

2,119
citations

279487

23
h-index

329751

37
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all docs

39
docs citations

39
times ranked

3009
citing authors

#	ARTICLE	IF	CITATIONS
1	In situ fabrication of 1D CdS nanorod/2D Ti ₃ C ₂ MXene nanosheet Schottky heterojunction toward enhanced photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118382.	10.8	429
2	Strontium substituted hydroxyapatite porous microspheres: Surfactant-free hydrothermal synthesis, enhanced biological response and sustained drug release. <i>Chemical Engineering Journal</i> , 2013, 222, 49-59.	6.6	166
3	A hydrated crystalline calcium carbonate phase: Calcium carbonate hemihydrate. <i>Science</i> , 2019, 363, 396-400.	6.0	153
4	Bioinspired 3D Printable, Self-Healable, and Stretchable Hydrogels with Multiple Conductivities for Skin-like Wearable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 2952-2960.	4.0	125
5	Tunable Pseudocapacitance in 3D TiO ₂ Nanomembranes Enabling Superior Lithium Storage Performance. <i>ACS Nano</i> , 2017, 11, 821-830.	7.3	124
6	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
7	The Crystallization of Amorphous Calcium Carbonate is Kinetically Governed by Ion Impurities and Water. <i>Advanced Science</i> , 2018, 5, 1701000.	5.6	101
8	Opposite Particle Size Effect on Amorphous Calcium Carbonate Crystallization in Water and during Heating in Air. <i>Chemistry of Materials</i> , 2015, 27, 4237-4246.	3.2	80
9	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
10	Dental enamel-like hydroxyapatite transformed directly from monetite. <i>Journal of Materials Chemistry</i> , 2012, 22, 22637.	6.7	66
11	Hollow magnetic hydroxyapatite microspheres with hierarchically mesoporous microstructure for pH-responsive drug delivery. <i>CrystEngComm</i> , 2013, 15, 2999.	1.3	62
12	Hydrothermal synthesis and characterization of Si and Sr co-substituted hydroxyapatite nanowires using strontium containing calcium silicate as precursors. <i>Materials Science and Engineering C</i> , 2014, 37, 286-291.	3.8	57
13	Ultrafast synthesis and characterization of carbonated hydroxyapatite nanopowders via sonochemistry-assisted microwave process. <i>Ultrasonics Sonochemistry</i> , 2012, 19, 1174-1179.	3.8	49
14	Additives Control the Stability of Amorphous Calcium Carbonate via Two Different Mechanisms: Surface Adsorption versus Bulk Incorporation. <i>Advanced Functional Materials</i> , 2020, 30, 2000003.	7.8	49
15	Unveiling the Origin of the High Catalytic Activity of Ultrathin 1T/2H MoSe ₂ Nanosheets for the Hydrogen Evolution Reaction: A Combined Experimental and Theoretical Study. <i>ChemSusChem</i> , 2019, 12, 5015-5022.	3.6	48
16	Control of Polymorph Selection in Amorphous Calcium Carbonate Crystallization by Poly(Aspartic) Tj ETQq0 0 0 rgBT, /Overlock 10 Tf 50	5.2	46
17	Three-dimensional structural interrelations between cells, extracellular matrix, and mineral in normally mineralizing avian leg tendon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14102-14109.	3.3	39
18	Multilevel Hierarchically Ordered Artificial Biomineral. <i>Small</i> , 2014, 10, 152-159.	5.2	33

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19	On the Phase Diagram of Calcium Carbonate Solutions. <i>Advanced Materials Interfaces</i> , 2017, 4, 1600076.	1.9	33
20	Bioprocess-Inspired Microscale Additive Manufacturing of Multilayered TiO ₂ /Polymer Composites with Enamel-Like Structures and High Mechanical Properties. <i>Advanced Functional Materials</i> , 2020, 30, 1904880.	7.8	33
21	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
22	Additives influence the phase behavior of calcium carbonate solution by a cooperative ion-association process. <i>Journal of Materials Chemistry B</i> , 2018, 6, 449-457.	2.9	31
23	Nanocage Ferritin Reinforced Polyacrylamide Hydrogel for Wearable Flexible Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 21278-21286.	4.0	30
24	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
25	Disordered Conformation with Low Pii Helix in Phosphoproteins Orchestrates Biomimetic Apatite Formation. <i>Advanced Materials</i> , 2017, 29, 1701629.	11.1	19
26	Growth and regrowth of adult sea urchin spines involve hydrated and anhydrous amorphous calcium carbonate precursors. <i>Journal of Structural Biology: X</i> , 2019, 1, 100004.	0.7	19
27	Bioprocess-Inspired Room-Temperature Synthesis of Enamel-like Fluorapatite/Polymer Nanocomposites Controlled by Magnesium Ions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25260-25269.	4.0	15
28	Hydroxyapatite-reinforced alginate fibers with bioinspired dually aligned architectures. <i>Carbohydrate Polymers</i> , 2021, 267, 118167.	5.1	14
29	Synthesis of monodisperse rod-shaped silica particles through biotemplating of surface-functionalized bacteria. <i>Nanoscale</i> , 2020, 12, 8732-8741.	2.8	10
30	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
31	Reentrant phase transformation from crystalline ikaite to amorphous calcium carbonate. <i>CrystEngComm</i> , 2018, 20, 2902-2906.	1.3	8
32	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
33	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
34	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
35	Bioprocess-inspired synthesis of multilayered chitosan/CaCO ₃ composites with nacre-like structures and high mechanical properties. <i>Journal of Materials Chemistry B</i> , 2021, 9, 5691-5697.	2.9	3
36	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

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37	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
38	Mussel directed synthesis of SnO ₂ /graphene oxide composite for energy storage. <i>Materials Chemistry Frontiers</i> , 0, , .	3.2	2
39	Room-temperature growth of fluorapatite/CaCO ₃ heterogeneous structured composites inspired by human tooth. <i>RSC Advances</i> , 2022, 12, 11084-11089.	1.7	0