

# Hang Ping

## List of Publications by Year in descending order

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38  
papers

750  
citations

623188

14  
h-index

552369

26  
g-index

38  
all docs

38  
docs citations

38  
times ranked

695  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioinspired 3D Printable, Self-Healable, and Stretchable Hydrogels with Multiple Conductivities for Skin-like Wearable Strain Sensors. ACS Applied Materials & Interfaces, 2021, 13, 2952-2960.	4.0	125
2	Bioprocess-inspired fabrication of materials with new structures and functions. Progress in Materials Science, 2019, 105, 100571.	16.0	76
3	Mineralization generates megapascal contractile stresses in collagen fibrils. Science, 2022, 376, 188-192.	6.0	70
4	Induced transformation of amorphous silica to cristobalite on bacterial surfaces. RSC Advances, 2015, 5, 71844-71848.	1.7	44
5	Bioprocess-inspired synthesis of hierarchically porous nitrogen-doped TiO <sub>2</sub> with high visible-light photocatalytic activity. Journal of Materials Chemistry A, 2015, 3, 19588-19596.	5.2	41
6	Bioprocess-inspired Microscale Additive Manufacturing of Multilayered TiO <sub>2</sub> /Polymer Composites with Enamel-like Structures and High Mechanical Properties. Advanced Functional Materials, 2020, 30, 1904880.	7.8	33
7	Bioprocess-inspired synthesis of printable, self-healing mineral hydrogels for rapidly responsive, wearable ionic skin. Chemical Engineering Journal, 2021, 424, 130549.	6.6	33
8	Organized intrafibrillar mineralization, directed by a rationally designed multi-functional protein. Journal of Materials Chemistry B, 2015, 3, 4496-4502.	2.9	31
9	Nanocage Ferritin Reinforced Polyacrylamide Hydrogel for Wearable Flexible Strain Sensors. ACS Applied Materials & Interfaces, 2022, 14, 21278-21286.	4.0	30
10	Confinement controlled mineralization of calcium carbonate within collagen fibrils. Journal of Materials Chemistry B, 2016, 4, 880-886.	2.9	29
11	Confined-space synthesis of nanostructured anatase, directed by genetically engineered living organisms for lithium-ion batteries. Chemical Science, 2016, 7, 6330-6336.	3.7	28
12	Template-free synthesis of hierarchical porous calcium carbonate microspheres for efficient water treatment. RSC Advances, 2016, 6, 472-480.	1.7	27
13	Enhanced hydrogen evolution from water splitting based on ZnO nanosheet/CdS nanoparticle heterostructures. RSC Advances, 2019, 9, 28165-28170.	1.7	27
14	A bio-process inspired synthesis of vaterite (CaCO <sub>3</sub> ), directed by a rationally designed multifunctional protein, ChiCaSifi. Journal of Materials Chemistry B, 2015, 3, 5951-5956.	2.9	16
15	Crystallization of calcium carbonate under the influences of casein and magnesium ions. RSC Advances, 2016, 6, 110362-110366.	1.7	15
16	Bioprocess-Inspired Room-Temperature Synthesis of Enamel-like Fluorapatite/Polymer Nanocomposites Controlled by Magnesium Ions. ACS Applied Materials & Interfaces, 2021, 13, 25260-25269.	4.0	15
17	Rapid collagen-directed mineralization of calcium fluoride nanocrystals with periodically patterned nanostructures. Nanoscale, 2021, 13, 8293-8303.	2.8	11
18	Synthesis of monodisperse rod-shaped silica particles through biotemplating of surface-functionalized bacteria. Nanoscale, 2020, 12, 8732-8741.	2.8	10

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19	Organized Arrangement of Calcium Carbonate Crystals, Directed by a Rationally Designed Protein. <i>Crystal Growth and Design</i> , 2018, 18, 3576-3583.	1.4	9
20	Controlled synthesis of mesoporous nanostructured anatase TiO <sub>2</sub> on a genetically modified <i>Escherichia coli</i> surface for high reversible capacity and long-life lithium-ion batteries. <i>RSC Advances</i> , 2016, 6, 59422-59428.	1.7	8
21	Novel synthesis approaches for new structures in confined space inspired by natural structure-forming processes. <i>Journal of Materiomics</i> , 2017, 3, 83-95.	2.8	8
22	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
23	Oriented Strontium Carbonate Nanocrystals within Collagen Films for Flexible Piezoelectric Sensors. <i>Advanced Functional Materials</i> , 2021, 31, 2105806.	7.8	8
24	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
25	Biotemplating synthesis of rod-shaped tin sulfides assembled by interconnected nanosheets for energy storage. <i>Journal of Power Sources</i> , 2021, 506, 230180.	4.0	7
26	Growth of mineralized collagen films by oriented calcium fluoride nanocrystal assembly with enhanced cell proliferation. <i>Journal of Materials Chemistry B</i> , 2021, 9, 6668-6677.	2.9	6
27	Biotemplating synthesis of organized structures inspired by biological processes. <i>Giant</i> , 2022, 11, 100108.	2.5	6
28	Shape and structure controlling of calcium oxalate crystals by a combination of additives in the process of biomineralization. <i>RSC Advances</i> , 2018, 8, 11014-11020.	1.7	4
29	Confined-space synthesis of hierarchical SnO <sub>2</sub> nanorods assembled by ultrasmall nanocrystals for energy storage. <i>RSC Advances</i> , 2016, 6, 81809-81813.	1.7	3
30	One-pot synthesis of bio-inspired layered materials of 3D graphene network/calcium carbonate. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 795-799.	0.4	3
31	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
32	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
33	Mussel directed synthesis of SnO <sub>2</sub> /graphene oxide composite for energy storage. <i>Materials Chemistry Frontiers</i> , 0, , .	3.2	2
34	Uniformly assembly of filamentous phage/SiO <sub>2</sub> composite films with tunable chiral nematic structures in capillary confinement. <i>Applied Surface Science</i> , 2022, 584, 152629.	3.1	2
35	Bio-inspired high-efficiency photosystem by synergistic effects of core-shell structured Au@CdS nanoparticles and their engineered location on {001} facets of SrTiO <sub>3</sub> nanocrystals. <i>Journal of Materials Science and Technology</i> , 2023, 136, 159-168.	5.6	2
36	Improving lithium storage of size-controllable nanostructured anatase, directed by an artificial protein genetically displayed on the surface of <i>Escherichia coli</i> . <i>Journal of Materials Science</i> , 2019, 54, 1539-1548.	1.7	1

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37	Fast mineralization of densely packed hydroxyapatite layers in the presence of overexpressed recombinant amelogenin. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 256-263.	0.4	0
38	Room-temperature growth of fluorapatite/CaCO <sub>3</sub> heterogeneous structured composites inspired by human tooth. RSC Advances, 2022, 12, 11084-11089.	1.7	0