

Wei Huang

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

875
citations

759233

12
h-index

839539

18
g-index

19
all docs

19
docs citations

19
times ranked

1037
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiscale Toughening Mechanisms in Biological Materials and Bioinspired Designs. <i>Advanced Materials</i> , 2019, 31, e1901561.	21.0	342
2	A natural impact-resistant bicontinuous composite nanoparticle coating. <i>Nature Materials</i> , 2020, 19, 1236-1243.	27.5	115
3	Hierarchical structure and compressive deformation mechanisms of bighorn sheep (<i>Ovis canadensis</i>) horn. <i>Acta Biomaterialia</i> , 2017, 64, 1-14.	8.3	60
4	Effects of microwave sintering on the properties of porous hydroxyapatite scaffolds. <i>Ceramics International</i> , 2013, 39, 2389-2395.	4.8	59
5	Mechanism of water extraction from gypsum rock by desert colonizing microorganisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10681-10687.	7.1	48
6	A natural energy absorbent polymer composite: The equine hoof wall. <i>Acta Biomaterialia</i> , 2019, 90, 267-277.	8.3	47
7	Microstructure and mechanical properties of different keratinous horns. <i>Journal of the Royal Society Interface</i> , 2018, 15, 20180093.	3.4	33
8	How Water Can Affect Keratin: Hydration-Driven Recovery of Bighorn Sheep (<i>Ovis Canadensis</i>) Horns. <i>Advanced Functional Materials</i> , 2019, 29, 1901077.	14.9	29
9	Fabrication of HA/ β -TCP scaffolds based on micro-syringe extrusion system. <i>Rapid Prototyping Journal</i> , 2013, 19, 319-326.	3.2	25
10	The Stomatopod Telson: Convergent Evolution in the Development of a Biological Shield. <i>Advanced Functional Materials</i> , 2019, 29, 1902238.	14.9	23
11	Stretched, mangled, and torn: Responses of the Ediacaran fossil <i>Dickinsonia</i> to variable forces. <i>Geology</i> , 2019, 47, 1049-1053.	4.4	20
12	Fabrication and characterization of porous HA/ β -TCP scaffolds strengthened with micro-ribs structure. <i>Materials Letters</i> , 2013, 92, 274-277.	2.6	17
13	Structure and mechanical implications of the pectoral fin skeleton in the Longnose Skate (<i>Chondrichthyes, Batoidea</i>). <i>Acta Biomaterialia</i> , 2017, 51, 393-407.	8.3	11
14	Tooth structure, mechanical properties, and diet specialization of Piranha and Pacu (<i>Serrasalminidae</i>): A comparative study. <i>Acta Biomaterialia</i> , 2021, 134, 531-545.	8.3	11
15	Mesocrystalline Ordering and Phase Transformation of Iron Oxide Biominerals in the Ultrahard Teeth of <i>Cryptochiton stelleri</i> . <i>Small Structures</i> , 2022, 3, .	12.0	11
16	Nanoarchitected Tough Biological Composites from Assembled Chitinous Scaffolds. <i>Accounts of Chemical Research</i> , 2022, 55, 1360-1371.	15.6	10
17	Modulation of impact energy dissipation in biomimetic helicoidal composites. <i>Journal of Materials Research and Technology</i> , 2020, 9, 14619-14629.	5.8	9
18	Surface quality and biocompatibility of porous hydroxyapatite scaffolds for bone tissue engineering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 957-963.	1.8	5

#	ARTICLE	IF	CITATIONS
19	Reply to Wierzchos et al.: Microorganism-induced gypsum to anhydrite phase transformation. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27788-27790.	7.1	0