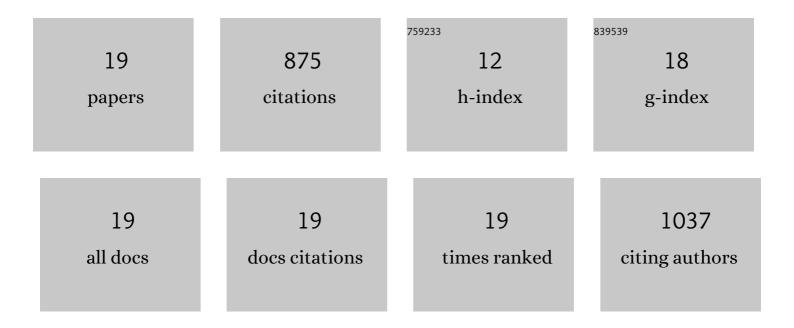
## Wei Huang

List of Publications by Year in descending order

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WEI HUANC

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