Bin Wang

List of Publications by Year
in descending order

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Version: 2024-02-01

20	1,323	687363 13	752698 20
papers	citations	h-index	g-index

20	20	20	1649
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Nd on the Microstructure and Mechanical Properties of Mg-La-Ce Alloys at Ambient and Elevated Temperatures. Journal of Materials Engineering and Performance, 2023, 32, 2598-2606.	2.5	3
2	Biological and bioinspired materials: Structure leading to functional and mechanical performance. Bioactive Materials, 2020, 5, 745-757.	15.6	89
3	Microstructure and mechanical properties of an alpha keratin bovine hoof wall. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 104, 103689.	3.1	8
4	Evaluating the hierarchical, hygroscopic deformation of the Daucus carota umbel through structural characterization and mechanical analysis. Acta Biomaterialia, 2019, 99, 457-468.	8.3	6
5	Natureâ€Inspired Strategy for Anticorrosion. Advanced Engineering Materials, 2019, 21, 1801379.	3.5	58
6	Mangrove Inspired Anti-Corrosion Coatings. Coatings, 2019, 9, 725.	2.6	13
7	Lessons from the Ocean: Whale Baleen Fracture Resistance. Advanced Materials, 2019, 31, e1804574.	21.0	40
8	Extreme lightweight structures: avian feathers and bones. Materials Today, 2017, 20, 377-391.	14.2	104
9	A review of terrestrial, aerial and aquatic keratins: the structure and mechanical properties of pangolin scales, feather shafts and baleen plates. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 76, 4-20.	3.1	27
10	Lamellae spatial distribution modulates fracture behavior and toughness of african pangolin scales. Journal of the Mechanical Behavior of Biomedical Materials, 2017, 76, 30-37.	3.1	12
11	Structure and mechanical behavior of human hair. Materials Science and Engineering C, 2017, 73, 152-163.	7.3	112
12	Light Like a Feather: A Fibrous Natural Composite with a Shape Changing from Round to Square. Advanced Science, 2017, 4, 1600360.	11.2	27
13	Seagull feather shaft: Correlation between structure and mechanical response. Acta Biomaterialia, 2017, 48, 270-288.	8.3	31
14	Pangolin armor: Overlapping, structure, and mechanical properties of the keratinous scales. Acta Biomaterialia, 2016, 41, 60-74.	8.3	109
15	Keratin: Structure, mechanical properties, occurrence in biological organisms, and efforts at bioinspiration. Progress in Materials Science, 2016, 76, 229-318.	32.8	571
16	A Sustainable Substitute for Ivory: the Jarina Seed from the Amazon. Scientific Reports, 2015, 5, 14387.	3.3	12
17	Microstructure and properties of the Ti/Al2O3/NiCr composites fabricated by explosive compaction/cladding. Materials Science and Engineering C, 2015, 50, 324-331.	7.3	11
18	Microstructural evolution in adiabatic shear band in the ultrafine-grained austenitic stainless steel processed by multi-axial compression. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 611, 100-107.	5.6	20

#	Article	IF	Citations
19	Biocorrosion of coated Mgâ€“Znâ€“Ca alloy under constant compressive stress close to that of human tibia. Materials Letters, 2012, 70, 174-176.	2.6	17
20	Effects of Nd on microstructures and properties of extruded Mgâ€“2Znâ€“0.46Yâ€“xNd alloys for stent application. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 1673-1678.	3.5	53