Bin Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/922524/publications.pdf

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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	Keratin: Structure, mechanical properties, occurrence in biological organisms, and efforts at bioinspiration. Progress in Materials Science, 2016, 76, 229-318.	32.8	571
2	Structure and mechanical behavior of human hair. Materials Science and Engineering C, 2017, 73, 152-163.	7.3	112
3	Pangolin armor: Overlapping, structure, and mechanical properties of the keratinous scales. Acta Biomaterialia, 2016, 41, 60-74.	8.3	109
4	Extreme lightweight structures: avian feathers and bones. Materials Today, 2017, 20, 377-391.	14.2	104
5	Biological and bioinspired materials: Structure leading to functional and mechanical performance. Bioactive Materials, 2020, 5, 745-757.	15.6	89
6	Natureâ€Inspired Strategy for Anticorrosion. Advanced Engineering Materials, 2019, 21, 1801379.	3.5	58
7	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
8	Lessons from the Ocean: Whale Baleen Fracture Resistance. Advanced Materials, 2019, 31, e1804574.	21.0	40
9	Seagull feather shaft: Correlation between structure and mechanical response. Acta Biomaterialia, 2017, 48, 270-288.	8.3	31
10	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
11	Light Like a Feather: A Fibrous Natural Composite with a Shape Changing from Round to Square. Advanced Science, 2017, 4, 1600360.	11.2	27
12	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
13	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
14	Mangrove Inspired Anti-Corrosion Coatings. Coatings, 2019, 9, 725.	2.6	13
15	A Sustainable Substitute for Ivory: the Jarina Seed from the Amazon. Scientific Reports, 2015, 5, 14387.	3.3	12
16	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
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	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

#	Article	IF	Citations
19	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
20	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