

Jae-Young Jung

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

967
citations

759233

12
h-index

752698

20
g-index

20
all docs

20
docs citations

20
times ranked

1329
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	Biodegradability engineering of biodegradable Mg alloys: Tailoring the electrochemical properties and microstructure of constituent phases. <i>Scientific Reports</i> , 2013, 3, 2367.	3.3	160
3	A Sinusoidally Architected Helicoidal Biocomposite. <i>Advanced Materials</i> , 2016, 28, 6835-6844.	21.0	158
4	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
5	Biocompatibility and strength retention of biodegradable Mg-Ca-Zn alloy bone implants. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 201-212.	3.4	54
6	Structural analysis of the tongue and hyoid apparatus in a woodpecker. <i>Acta Biomaterialia</i> , 2016, 37, 1-13.	8.3	41
7	<i>In vivo</i> corrosion mechanism by elemental interdiffusion of biodegradable Mg-Ca alloy. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 2251-2260.	3.4	21
8	Load-bearing capacity and biological allowable limit of biodegradable metal based on degradation rate <i>in vivo</i> . <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2012, 100B, 1535-1544.	3.4	20
9	A Natural Stress Deflector on the Head? Mechanical and Functional Evaluation of the Woodpecker Skull Bones. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800152.	2.8	17
10	Radular stylus of <i>Cryptochiton stelleri</i> : A multifunctional lightweight and flexible fiber-reinforced composite. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 111, 103991.	3.1	14
11	A Sustainable Substitute for Ivory: the Jarina Seed from the Amazon. <i>Scientific Reports</i> , 2015, 5, 14387.	3.3	12
12	Multi-wall carbon nanotube-embedded lithium cobalt phosphate composites with reduced resistance for high-voltage lithium-ion batteries. <i>Electronic Materials Letters</i> , 2016, 12, 147-155.	2.2	12
13	A comparative analysis of the avian skull: Woodpeckers and chickens. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 84, 273-280.	3.1	12
14	Structure and mechanical implications of the pectoral fin skeleton in the Longnose Skate (<i>Chondrichthyes</i> , <i>Batoidea</i>). <i>Acta Biomaterialia</i> , 2017, 51, 393-407.	8.3	11
15	A new method for the preparation of bioactive calcium phosphate films hybridized with 1 α ,25-dihydroxyvitamin D ₃ . <i>Journal of Materials Science: Materials in Medicine</i> , 2009, 20, 2441-2453.	3.6	8
16	A Protocol for Bioinspired Design: A Ground Sampler Based on Sea Urchin Jaws. <i>Journal of Visualized Experiments</i> , 2016, , .	0.3	8
17	The role of collagen in the dermal armor of the boxfish. <i>Journal of Materials Research and Technology</i> , 2020, 9, 13825-13841.	5.8	7
18	Bone nodule formation of Mg63 cells is increased by the interplay of signaling pathways cultured on vitamin D ₃ -entrapped calcium phosphate films. <i>Animal Cells and Systems</i> , 2009, 13, 363-370.	2.2	3

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19	Rapid In Vitro Corrosion Induced by Crack-Like Pathway in Biodegradable Mg-10% Ca Alloy. Microscopy and Microanalysis, 2013, 19, 210-214.	0.4	1