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List of Publications by Year in descending order

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29
papers

402
citations

933447

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times ranked

489
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of strain rate sensitivity of extrafibrillar matrix on fracture in mineralized collagen fibril arrays. <i>Engineering Fracture Mechanics</i> , 2021, 245, 107592.	4.3	9
2	Role of soft bi-layer coating on the protection of turtle carapace. <i>Journal of Biomechanics</i> , 2021, 126, 110618.	2.1	3
3	Enamel-inspired materials design achieving balance of high stiffness and large energy dissipation. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103587.	3.1	1
4	Competing mechanisms in fracture of amorphous films resting on ductile substrates. <i>Engineering Fracture Mechanics</i> , 2020, 236, 107215.	4.3	1
5	Dynamic crack propagation in the turtle carapace. <i>Mechanics of Materials</i> , 2020, 151, 103614.	3.2	8
6	An analysis of fracture in staggered mineralized collagen fibril arrays. <i>International Journal of Solids and Structures</i> , 2020, 193-194, 535-549.	2.7	9
7	Delamination of Stiff Films on Pressure Sensitive Ductile Substrates. <i>International Journal of Applied Mechanics</i> , 2019, 11, 1950014.	2.2	3
8	Localized plastic deformation in amorphous films on a ductile substrate. <i>Mechanics of Materials</i> , 2019, 136, 103084.	3.2	4
9	Notch tip fields in amorphous films resting on ductile substrates. <i>European Journal of Mechanics, A/Solids</i> , 2019, 75, 1-9.	3.7	7
10	A theory of biological composites undergoing plastic deformations. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 93, 204-212.	3.1	8
11	An analysis of crack growth in dentin at the microstructural scale. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 81, 149-160.	3.1	12
12	Effect of Interfacial Properties on the Mechanical Behavior of Bone-Like Materials: A Numerical Study. <i>International Journal of Applied Mechanics</i> , 2017, 09, 1750014.	2.2	8
13	Protection mechanisms of the carapace of a box turtle. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 71, 54-67.	3.1	11
14	Crack initiation and propagation in composite microstructure of dentin. <i>International Journal of Solids and Structures</i> , 2017, 110-111, 36-43.	2.7	6
15	The effect of microcracking in the peritubular dentin on the fracture of dentin. <i>Journal of Biomechanics</i> , 2017, 65, 125-130.	2.1	2
16	Analysis of crack interacting with the composite microstructure of dentin. <i>European Journal of Mechanics, A/Solids</i> , 2017, 66, 287-295.	3.7	8
17	Constitutive modeling the plastic deformation of bone-like materials. <i>International Journal of Solids and Structures</i> , 2016, 92-93, 1-8.	2.7	10
18	Role of microstructure on fracture of dentin. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 59, 527-537.	3.1	22

#	ARTICLE	IF	CITATIONS
19	Bioinspired toughening mechanism: lesson from dentin. <i>Bioinspiration and Biomimetics</i> , 2015, 10, 046010.	2.9	8
20	Determination of elastic and plastic mechanical properties of dentin based on experimental and numerical studies. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2015, 36, 1347-1358.	3.6	10
21	Damage mechanisms in uniaxial compression of single enamel rods. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 42, 1-9.	3.1	14
22	On the Mechanics of Fatigue and Fracture in Teeth. <i>Applied Mechanics Reviews</i> , 2014, 66, 0308031-3080319.	10.1	83
23	Fracture analysis for biological materials with an expanded cohesive zone model. <i>Journal of Biomechanics</i> , 2014, 47, 2244-2248.	2.1	13
24	On the mechanical behavior of bio-inspired materials with non-self-similar hierarchy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 34, 8-17.	3.1	14
25	Role of crystal arrangement on the mechanical performance of enamel. <i>Acta Biomaterialia</i> , 2012, 8, 3784-3793.	8.3	50
26	The role of property gradients on the mechanical behavior of human enamel. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2012, 9, 63-72.	3.1	47
27	Fracture toughening mechanism of cortical bone: An experimental and numerical approach. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011, 4, 983-992.	3.1	31
28	Multiple cracking of amorphous films on ductile substrates. <i>International Journal of Fracture</i> , 0, , .	2.2	0
29	Interaction of rod decussation and crack growth in enamel. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 0, , 1-10.	1.6	0