

S Anup

List of Publications by Year in descending order

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Version: 2024-02-01

18
papers

137
citations

1307594

7
h-index

1199594

12
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18
all docs

18
docs citations

18
times ranked

133
citing authors

#	ARTICLE	IF	CITATIONS
1	Effective SERS detection using a flexible wiping substrate based on electrospun polystyrene nanofibers. <i>Analytical Methods</i> , 2017, 9, 3998-4003.	2.7	29
2	Influence of platelet aspect ratio on the mechanical behaviour of bio-inspired nanocomposites using molecular dynamics. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 59, 21-40.	3.1	23
3	Effect of geometrical parameters on mode shape and critical buckling load of dished shells under external pressure. <i>Thin-Walled Structures</i> , 2016, 106, 218-227.	5.3	14
4	Investigation of deformation mechanisms of staggered nanocomposites using molecular dynamics. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 2849-2853.	2.1	10
5	Molecular dynamics study of toughening mechanisms in nano-composites as a function of structural arrangement of reinforcements. <i>Materials and Design</i> , 2016, 100, 132-140.	7.0	9
6	Influence of initial flaws on the mechanical properties of nacre. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015, 46, 168-175.	3.1	8
7	INFLUENCE OF RELATIVE STRENGTH OF CONSTITUENTS ON THE OVERALL STRENGTH AND TOUGHNESS OF BONE. <i>Journal of Mechanics in Medicine and Biology</i> , 2008, 08, 527-539.	0.7	7
8	Influence of viscoelasticity of protein on the toughness of bone. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2010, 3, 260-267.	3.1	7
9	Mechanical behaviour of bio-inspired brittle-matrix nanocomposites under different strain rates using molecular dynamics. <i>Molecular Simulation</i> , 2016, 42, 1490-1501.	2.0	7
10	Atomistic Simulations of Length-Scale Effect of Bioinspired Brittle-Matrix Nanocomposite Models. <i>Journal of Engineering Mechanics - ASCE</i> , 2018, 144, 04018104.	2.9	6
11	Investigation on Snap-Through Buckling Behavior of Dished Shells Under Uniform External Pressure. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	2.2	6
12	Effect of interface strength on the mechanical behaviour of bio-inspired composites: A molecular dynamics study. <i>Mechanics of Materials</i> , 2019, 132, 93-100.	3.2	4
13	Design of a bio-inspired composite using probabilistic fracture mechanics. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 95, 96-102.	3.1	4
14	Bio-inspired composites with functionally graded platelets exhibit enhanced stiffness. <i>Bioinspiration and Biomimetics</i> , 2018, 13, 016011.	2.9	1
15	Studies on the Effect of Strain-Rate on a Bio-Inspired Nanocomposite Using Molecular Dynamics. , 2014, , .		1
16	Effect of Thickness on Mode Shape and Critical Load for Dished Shallow Shells. , 2014, , .		1
17	Natural optima in human skull: a low-velocity impact study. <i>International Journal of Crashworthiness</i> , 2007, 12, 17-20.	1.9	0
18	Mechanical properties of unidirectional bio-inspired composites with two non-self-similar hierarchical structures. <i>Mechanics of Materials</i> , 2021, 163, 104082.	3.2	0