

Arun Arjunan

List of Publications by Year in descending order

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47
papers

1,289
citations

377584

21
h-index

488211

31
g-index

50
all docs

50
docs citations

50
times ranked

810
citing authors

#	ARTICLE	IF	CITATIONS
1	Future Directions and Requirements for Tissue Engineering Biomaterials. , 2022, , 195-218.		8
2	Smart Tribological Coating. , 2022, , 414-425.		5
3	Metallic Meta-Biomaterial as Biomedical Implants. , 2022, , 70-80.		4
4	Characteristics of Acoustic Metamaterials. , 2022, , 35-45.		5
5	Advances in Acoustic Metamaterials. , 2022, , 1-10.		2
6	Metamaterials for Energy Harvesting. , 2022, , 522-534.		3
7	Coatings for Dental Applications. , 2022, , 426-435.		2
8	Nanomaterials Theory and Applications. , 2022, , 302-314.		9
9	Metamaterial for Crashworthiness Applications. , 2022, , 57-69.		10
10	Classification of Biomaterial Functionality. , 2022, , 86-102.		15
11	High-temperature oxidation and erosion of HVOF sprayed NiCrSiB/Al ₂ O ₃ and NiCrSiB/WC Co coatings. Applied Surface Science Advances, 2022, 7, 100191.	2.9	24
12	Crushing and energy absorption properties of additively manufactured concave thin-walled tubes. Results in Engineering, 2022, 14, 100424.	2.2	13
13	Deformation and energy absorption of additively manufactured functionally graded thickness thin-walled circular tubes under lateral crushing. Engineering Structures, 2021, 226, 111324.	2.6	72
14	Effect of silver addition in copper-silver alloys fabricated by laser powder bed fusion in situ alloying. Journal of Alloys and Compounds, 2021, 857, 157561.	2.8	27
15	3D printed auxetic nasopharyngeal swabs for COVID-19 sample collection. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 114, 104175.	1.5	51
16	Antibacterial Biomaterials in Orthopedics. , 2021, , 46-46.		1
17	Advancements and prospects of thermal management and waste heat recovery of PEMFC. International Journal of Thermofluids, 2021, 9, 100064.	4.0	118
18	Analysis of the Porous Structures from Laser Powder Bed Fusion Additive Manufacturing. Advances in Transdisciplinary Engineering, 2021, , .	0.1	1

#	ARTICLE	IF	CITATIONS
19	Sound pressure level of a Formula 3 car and the influence of detachable muffler-tip. Results in Engineering, 2021, 11, 100261.	2.2	1
20	Acoustic behaviour of 3D printed titanium perforated panels. Results in Engineering, 2021, 11, 100252.	2.2	21
21	Additive manufacturing of anti-SARS-CoV-2 Copper-Tungsten-Silver alloy. Rapid Prototyping Journal, 2021, 27, 1831-1849.	1.6	26
22	Tissue Engineering Concept. , 2021, , .		3
23	Crashworthiness analysis and optimization of standard and windowed multi-cell hexagonal tubes. Structural and Multidisciplinary Optimization, 2021, 63, 2191-2209.	1.7	28
24	PEMFC Poly-Generation Systems: Developments, Merits, and Challenges. Sustainability, 2021, 13, 11696.	1.6	16
25	Fused deposition modelling: Current status, methodology, applications and future prospects. Additive Manufacturing, 2021, 47, 102378.	1.7	99
26	Three-dimensional oscillation of an acoustic microbubble between two rigid curved plates. Journal of Hydrodynamics, 2021, 33, 1019-1034.	1.3	6
27	3D Printed Cobalt-Chromium-Molybdenum Porous Superalloy with Superior Antiviral Activity. International Journal of Molecular Sciences, 2021, 22, 12721.	1.8	15
28	Perforated Steel Stud to Improve the Acoustic Insulation of Drywall Partitions. Acoustics, 2021, 3, 679-695.	0.8	5
29	Mechanical performance of highly permeable laser melted Ti6Al4V bone scaffolds. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 102, 103517.	1.5	106
30	Effect of nano-Al ₂ O ₃ addition on the microstructure and erosion wear of HVOF sprayed NiCrSiB coatings. Materials Research Express, 2020, 7, 015006.	0.8	33
31	Mechanical performance of additively manufactured pure silver antibacterial bone scaffolds. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 112, 104090.	1.5	41
32	Stable formation of powder bed laser fused 99.9% silver. Materials Today Communications, 2020, 24, 101195.	0.9	23
33	Evaluation of crushing and energy absorption characteristics of bio-inspired nested structures. Thin-Walled Structures, 2020, 148, 106615.	2.7	50
34	Additively manufactured AlSi10Mg inherently stable thin and thick-walled lattice with negative Poisson's ratio. Composite Structures, 2020, 247, 112469.	3.1	51
35	Correlation between selective laser melting parameters, pore defects and tensile properties of 99.9 % silver. Materials Today Communications, 2020, 25, 101550.	0.9	17
36	Parametric optimisation of high-velocity oxy-fuel nickel-chromium-silicon-boron and aluminium-oxide coating to improve erosion wear resistance. Materials Research Express, 2019, 6, 096560.	0.8	30

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37	Investigation of Ti64 sheathed cellular anatomical structure as a tibia implant. Biomedical Physics and Engineering Express, 2019, 5, 035008.	0.6	34
38	Application of Cellular Material in Crashworthiness Applications: An Overview. , 2019, , .		13
39	Targeted sound attenuation capacity of 3D printed noise cancelling waveguides. Applied Acoustics, 2019, 151, 30-44.	1.7	33
40	Acoustic Performance of Metallic Foams. , 2019, , .		10
41	Extra low interstitial titanium based fully porous morphological bone scaffolds manufactured using selective laser melting. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 95, 1-12.	1.5	66
42	Acoustic absorption of passive destructive interference cavities. Materials Today Communications, 2019, 19, 68-75.	0.9	35
43	Compressive performance of an arbitrary stiffness matched anatomical Ti64 implant manufactured using Direct Metal Laser Sintering. Materials and Design, 2018, 160, 1281-1294.	3.3	44
44	A Computationally-Efficient Numerical Model to Characterize the Noise Behavior of Metal-Framed Walls. Metals, 2015, 5, 1414-1431.	1.0	22
45	Development of a 3D finite element acoustic model to predict the sound reduction index of stud based double-leaf walls. Journal of Sound and Vibration, 2014, 333, 6140-6155.	2.1	48
46	Finite element acoustic analysis of a steel stud based double-leaf wall. Building and Environment, 2013, 67, 202-210.	3.0	38
47	Mechanical and thermal performance of additively manufactured copper, silver and copper-silver alloys. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 0, , 146442072110409.	0.7	4