

Finite Element Analysis of the Ballistic Impact on Auxetic Armor

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Impact Resistant Structure Design and Optimization Inspired by Turtle Carapace. <i>Materials</i> , 2022, 15, 2899.	2.9	5
2	Effects of Braid Angle and Material Modulus on the Negative Poisson's Ratio of Braided Auxetic Yarns. <i>Crystals</i> , 2022, 12, 781.	2.2	1
3	Optimization of Process Parameters in Friction Stir Welding of Aluminum 5451 in Marine Applications. <i>Journal of Marine Science and Engineering</i> , 2022, 10, 1539.	2.6	8
4	Numerical and Experimental Study of Multi-Layer Armors for Personal Protection. <i>Materials Science Forum</i> , 0, 1077, 47-56.	0.3	0
5	Loading capacity prediction of the auxetic tubular lattice structures by multiscale shakedown analysis. <i>Composite Structures</i> , 2023, 314, 116938.	5.8	3
6	Novel hybrid 3D-printed auxetic vascular stent based on re-entrant and meta-trichiral unit cells: Finite element simulation with experimental verifications. <i>Materials Today Communications</i> , 2023, 35, 105742.	1.9	7
7	Finite element analysis of car frame frontal crash using lightweight materials. <i>Journal of Engineering Research</i> , 2023, 11, 100007.	0.7	5
8	Development and Applications of 3D Printing-Processed Auxetic Structures for High-Velocity Impact Protection: A Review. <i>Eng.</i> , 2023, 4, 903-940.	2.4	4
9	Nonlinear Constitutive and Mechanical Properties of an Auxetic Honeycomb Structure. <i>Mathematics</i> , 2023, 11, 2062.	2.2	2
10	Friction stir welding parameters optimization of naval grade AA5083 alloy: RSM. <i>International Journal on Interactive Design and Manufacturing</i> , 0, , .	2.2	1
11	Controllable design of bi-material metamaterials with programmable thermal expansion and Poisson's ratio. <i>Composite Structures</i> , 2023, 322, 117417.	5.8	8
12	Numerical Analysis of Crashworthiness on Electric Vehicle's Battery Case with Auxetic Structure. <i>Energies</i> , 2023, 16, 5849.	3.1	2
13	Numerical Investigation on Anti-Explosion Performance of Non-Metallic Annular Protective Structures. <i>Materials</i> , 2023, 16, 7549.	2.9	0
14	Review on impact, crushing response and applications of re-entrant core sandwich structures. <i>Aircraft Engineering and Aerospace Technology</i> , 2024, 96, 297-306.	1.2	0
15	Design optimization of additively manufactured sandwich beams through experimentation, machine learning, and imperialist competitive algorithm. <i>Journal of Engineering Design</i> , 2024, 35, 320-337.	2.3	0
16	Design of Novel Auxetic Hybrid Metamaterials: Experimental and Numerical Study. , 2023, , .		0