

The select of internal architecture for porous Ti alloy sc mechanical properties and permeability

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Microstructural features and compressive properties of SLM Ti6Al4V lattice structures. <i>Surface and Coatings Technology</i> , 2020, 403, 126419.	2.2	47
2	Structural and Material Determinants Influencing the Behavior of Porous Ti and Its Alloys Made by Additive Manufacturing Techniques for Biomedical Applications. <i>Materials</i> , 2021, 14, 712.	1.3	37
3	Functional repair of critically sized femoral defects treated with bioinspired titanium gyroid-sheet scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 116, 104380.	1.5	24
4	Mechanical properties and fluid permeability of gyroid and diamond lattice structures for intervertebral devices: functional requirements and comparative analysis. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 285-300.	2.8	29
5	Biomorphic porous Ti6Al4V gyroid scaffolds for bone implant applications fabricated by selective laser melting. <i>Progress in Additive Manufacturing</i> , 2021, 6, 455-469.	2.5	19
6	Microstructure and compressive properties of Al ₃ Si ₁₀ Mg lattice structures manufactured using selective laser melting. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2021, 52, 762-771.	0.5	2
7	Mechanical and energy absorption properties of functionally graded lattice structures based on minimal curved surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 995-1008.	1.5	17
8	Effects of porosity gradient pattern on mechanical performance of additive manufactured Ti-6Al-4V functionally graded porous structure. <i>Materials and Design</i> , 2021, 208, 109911.	3.3	30
9	Biodegradable ZnLiCa ternary alloys for critical-sized bone defect regeneration at load-bearing sites: In vitro and in vivo studies. <i>Bioactive Materials</i> , 2021, 6, 3999-4013.	8.6	40
10	Surface treatment of 3D printed Cu-bearing Ti alloy scaffolds for application in tissue engineering. <i>Materials and Design</i> , 2022, 213, 110350.	3.3	13
11	Spray-deposited Ag nanoparticles on micro/nano structured Ti6Al4V surface for enhanced bactericidal property and cytocompatibility. <i>Surface and Coatings Technology</i> , 2022, 431, 128010.	2.2	9
12	Topological design, mechanical responses and mass transport characteristics of high strength-high permeability TPMS-based scaffolds. <i>International Journal of Mechanical Sciences</i> , 2022, 217, 107023.	3.6	27
13	Manufacturing of porous titanium using friction stir welding. <i>Materials Letters</i> , 2022, 310, 131430.	1.3	3
14	Challenges in computational fluid dynamics applications for bone tissue engineering. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2022, 478, 20210607.	1.0	6
15	Effect of Surface Curvature on the Mechanical and Mass-Transport Properties of Additively Manufactured Tissue Scaffolds with Minimal Surfaces. <i>ACS Biomaterials Science and Engineering</i> , 2022, 8, 1623-1643.	2.6	12
16	Triply periodic minimal surface (TPMS) porous structures: from multi-scale design, precise additive manufacturing to multidisciplinary applications. <i>International Journal of Extreme Manufacturing</i> , 2022, 4, 022001.	6.3	139
17	Surface functionalization of 3D printed Ti scaffold with Zn-containing mesoporous bioactive glass. <i>Surface and Coatings Technology</i> , 2022, 435, 128236.	2.2	14
18	Ultra-high specific strength Ti6Al4V alloy lattice material manufactured via selective laser melting. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 142956.	2.6	14

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20	Biomedical porous scaffold fabrication using additive manufacturing technique: Porosity, surface roughness and process parameters optimization. <i>International Journal of Lightweight Materials and Manufacture</i> , 2022, 5, 384-396.	1.3	8
21	Multi-objective Shape Optimization of Bone Scaffolds: Enhancement of Mechanical Properties and Permeability. <i>Acta Biomaterialia</i> , 2022, 146, 317-340.	4.1	18
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23	Anisotropic mechanical and mass-transport performance of Ti6Al4V plate-lattice scaffolds prepared by laser powder bed fusion. <i>Acta Biomaterialia</i> , 2022, 148, 374-388.	4.1	13
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25	Osteoimmunityâ€Regulating Biomimetically Hierarchical Scaffold for Augmented Bone Regeneration. <i>Advanced Materials</i> , 2022, 34, .	11.1	90
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38	Modular-based gradient scaffold design and experimental studies for tissue engineering: enabling customized structures and mechanical properties. <i>Journal of Materials Science</i> , 0, , .	1.7	0
39	Structural Design and Mechanical Properties Analysis of Fused Triply Periodic Minimal Surface Porous Scaffold. <i>Journal of Materials Engineering and Performance</i> , 2023, 32, 4083-4096.	1.2	2
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