

Virtual Materials Design: Properties of Cellular Solids D Images

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Second-order analysis by variograms for curvature measures of two-phase structures. European Physical Journal B, 2005, 47, 397-409.	1.5	28
2	Deformation of steel powder compacts during sintering: Correlation between macroscopic measurement and in situ microtomography analysis. Acta Materialia, 2006, 54, 513-522.	7.9	51
3	Quantitative properties of complex porous materials calculated from x-ray μ CT images. , 2006, , .		6
4	X-Ray Micro-Tomography Applications Of Relevance To The Petroleum Industry. AIP Conference Proceedings, 2007, , .	0.4	1
5	Developing a virtual materials laboratory. Materials Today, 2007, 10, 44-51.	14.2	160
6	Recent advances in X-ray microtomography applied to materials. International Materials Reviews, 2008, 53, 129-181.	19.3	415
7	Pore3D: A software library for quantitative analysis of porous media. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 615, 326-332.	1.6	124
8	Structure and deformation correlation of closed-cell aluminium foam subject to uniaxial compression. Acta Materialia, 2012, 60, 3604-3615.	7.9	78
9	Modeling the mechanical properties of optimally processed cordieriteâ€“mulliteâ€“alumina ceramic foams by X-ray computed tomography and finite element analysis. Acta Materialia, 2012, 60, 4235-4246.	7.9	32
10	The effects of manufacturing parameters on geometrical and mechanical properties of copper foams produced by space holder technique. Materials & Design, 2014, 53, 681-690.	5.1	44
11	Quantitative X-ray tomography. International Materials Reviews, 2014, 59, 1-43.	19.3	975
12	Three-dimensional digitalization modeling characterization of pores in high-rank coal in the southern Qinshui basin. Geosciences Journal, 2019, 23, 175-188.	1.2	4
13	Fracture Behavior of Mullite Reticulated Porous Ceramics for Porous Media Combustion. Frontiers in Chemistry, 2019, 7, 792.	3.6	7
14	Combining numerical models and discretizing methods in the analysis of bamboo parenchyma using finite element analysis based on X-ray microtomography. Wood Science and Technology, 2020, 54, 161-186.	3.2	27
15	Characteristics of high-rank coal structure parallel and perpendicular to the bedding plane via NMR and X-ray CT. Petroleum Science, 2020, 17, 925-938.	4.9	3
17	Wood biomimetics: Capturing and simulating the mesoscale complexity of willow using cross-correlation reconstruction algorithm and 3D printing. Materials and Design, 2023, 228, 111812.	7.0	2
18	Tortuosity-Porosity Relationships: Review of Empirical Data from Literature. Springer Series in Materials Science, 2023, , 51-89.	0.6	0
19	Mechanical propertyâ€“processing relations for SiC foams synthesized via polymer particle templating of polycarbosilane. International Journal of Ceramic Engineering & Science, 0, , .	1.2	0

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20	Pore-scale numerical analysis of fluid flows in compressed polyurethane foams with a workflow of open-cell foams modeling. Journal of Fluids and Structures, 2024, 125, 104065.	3.4	0