

Dominique Jeulin

List of Publications by Year in descending order

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45
papers

2,679
citations

394421

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265206

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docs citations

47
times ranked

2234
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel physisorption model based on mathematical morphology operators preserving exact pore morphology and connectivity. <i>Microporous and Mesoporous Materials</i> , 2022, 337, 111847.	4.4	4
2	Towards crack paths simulations in media with a random fracture energy. <i>International Journal of Solids and Structures</i> , 2020, 184, 279-286.	2.7	4
3	Morphological Models. , 2020, , 1754-1764.		0
4	Computational Homogenization of Architected Materials. <i>Springer Series in Materials Science</i> , 2019, , 89-139.	0.6	5
5	The thermoelastic response of cracked polycrystals with hexagonal symmetry. <i>Philosophical Magazine</i> , 2019, 99, 606-630.	1.6	5
6	SOME DENSE RANDOM PACKINGS GENERATED BY THE DEAD LEAVES MODEL. <i>Image Analysis and Stereology</i> , 2019, 38, 3.	0.9	2
7	Morphological Models. , 2018, , 1-12.		0
8	Modelling of the microstructure of mesoporous alumina constrained by morphological simulation of nitrogen porosimetry. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 553, 378-396.	4.7	4
9	Thermoelastic properties of microcracked polycrystals. Part I: Adequacy of Fourier-based methods for cracked elastic bodies. <i>International Journal of Solids and Structures</i> , 2018, 155, 248-256.	2.7	18
10	Thermoelastic properties of microcracked polycrystals. Part II: The case of jointed polycrystalline TATB. <i>International Journal of Solids and Structures</i> , 2018, 155, 257-274.	2.7	12
11	Prediction of Effective Properties of Porous Carbon Electrodes from a Parametric 3D Random Morphological Model. <i>Transport in Porous Media</i> , 2017, 120, 141-165.	2.6	12
12	Morphological modelling of three-phase microstructures of anode layers using SEM images. <i>Journal of Microscopy</i> , 2016, 263, 51-63.	1.8	20
13	Iterated Boolean random varieties and application to fracture statistics models. <i>Applications of Mathematics</i> , 2016, 61, 363-386.	0.9	2
14	Power Laws Variance Scaling of Boolean Random Varieties. <i>Methodology and Computing in Applied Probability</i> , 2016, 18, 1065-1079.	1.2	11
15	Modelling mesoporous alumina microstructure with 3D random models of platelets. <i>Journal of Microscopy</i> , 2015, 260, 287-301.	1.8	22
16	Stereological reconstruction of polycrystalline materials. <i>Journal of Microscopy</i> , 2015, 258, 190-199.	1.8	11
17	Numerical modeling of the thermal expansion of an energetic material. <i>International Journal of Solids and Structures</i> , 2015, 60-61, 125-139.	2.7	18
18	Stokes Flow Through a Boolean Model of Spheres: Representative Volume Element. <i>Transport in Porous Media</i> , 2015, 109, 711-726.	2.6	19

#	ARTICLE	IF	CITATIONS
19	Towards gigantic RVE sizes for 3D stochastic fibrous networks. International Journal of Solids and Structures, 2014, 51, 359-376.	2.7	96
20	Influence of the fiber geometry on the macroscopic elastic and thermal properties. International Journal of Solids and Structures, 2014, 51, 3807-3822.	2.7	36
21	Morphological segmentation of FIB-SEM data of highly porous media. Journal of Microscopy, 2013, 250, 77-87.	1.8	68
22	Microstructure-induced hotspots in the thermal and elastic responses of granular media. International Journal of Solids and Structures, 2013, 50, 1699-1709.	2.7	27
23	Estimation of acoustic properties and of the representative volume element of random fibrous media. Journal of Applied Physics, 2013, 113, .	2.5	15
24	Morphology and effective properties of multi-scale random sets: A review. Comptes Rendus - Mecanique, 2012, 340, 219-229.	2.1	37
25	Imaging and 3D morphological analysis of collagen fibrils. Journal of Microscopy, 2012, 247, 161-175.	1.8	33
26	3D Morphological Characterization of Phonic Insulation Fibrous Media. Advanced Engineering Materials, 2011, 13, 156-164.	3.5	15
27	Random-walk-based stochastic modeling of three-dimensional fiber systems. Physical Review E, 2011, 83, 041804.	2.1	79
28	Etude numérique et statistique du comportement d'un composite thermoplastique. Revue Des Composites Et Des Matériaux Avances, 2011, 21, 221-254.	0.6	4
29	Elastic behavior of composites containing Boolean random sets of inhomogeneities. International Journal of Engineering Science, 2009, 47, 313-324.	5.0	38
30	3D MORPHOLOGICAL MODELLING OF A RANDOM FIBROUS NETWORK. Image Analysis and Stereology, 2009, 28, 129.	0.9	23
31	3D DIRECTIONAL MATHEMATICAL MORPHOLOGY FOR ANALYSIS OF FIBER ORIENTATIONS. Image Analysis and Stereology, 2009, 28, 143.	0.9	43
32	Two-dimensional (2D) and three-dimensional (3D) analyses of plasma-sprayed alumina microstructures for finite-element simulation of Young's modulus. Journal of Materials Science, 2008, 43, 4091-4098.	3.7	24
33	Three-dimensional microtomographic study of Widmanstätten microstructures in an alpha/beta titanium alloy. Scripta Materialia, 2008, 58, 512-515.	5.2	39
34	On the geodesic property of strain field patterns in elastoplastic composites. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 1217-1227.	2.1	13
35	SEGMENTATION OF 2D AND 3D TEXTURES FROM ESTIMATES OF THE LOCAL ORIENTATION. Image Analysis and Stereology, 2008, 27, 183.	0.9	31
36	Apparent and effective physical properties of heterogeneous materials: Representativity of samples of two materials from food industry. Computer Methods in Applied Mechanics and Engineering, 2006, 195, 3960-3982.	6.6	164

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37	Random Structures in Physics. , 2005, , 183-219.		12
38	Determination of the size of the representative volume element for random composites: statistical and numerical approach. International Journal of Solids and Structures, 2003, 40, 3647-3679.	2.7	1,535
39	Random Structure Models for Homogenization and Fracture Statistics. , 2001, , 33-91.		16
40	Random texture models for material structures. Statistics and Computing, 2000, 10, 121-132.	1.5	70
41	Size effect on elastic properties of random composites. Engineering Computations, 1994, 11, 99-110.	1.4	30
42	RANDOM STRUCTURE MODELS FOR COMPOSITE MEDIA AND FRACTURE STATISTICS. Series on Advances in Mathematics for Applied Sciences, 1994, , 239-289.	0.1	12
43	DAMAGE SIMULATION IN HETEROGENEOUS MATERIALS FROM GEODESIC PROPAGATIONS. Engineering Computations, 1993, 10, 81-91.	1.4	12
44	Caractéristiques morphologiques des constituants et comportement à la limite élastique d'un matériau biphasé Fe/Ag. Revue De Physique Appliquée, 1989, 24, 861-869.	0.4	23
45	On image analysis and micromechanics. Revue De Physique Appliquée, 1988, 23, 549-556.	0.4	12