

Dominique Jeulin

List of Publications by Year in descending order

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45
papers

2,679
citations

394421

19
h-index

265206

42
g-index

47
all docs

47
docs citations

47
times ranked

2234
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of the size of the representative volume element for random composites: statistical and numerical approach. <i>International Journal of Solids and Structures</i> , 2003, 40, 3647-3679.	2.7	1,535
2	Apparent and effective physical properties of heterogeneous materials: Representativity of samples of two materials from food industry. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2006, 195, 3960-3982.	6.6	164
3	Towards gigantic RVE sizes for 3D stochastic fibrous networks. <i>International Journal of Solids and Structures</i> , 2014, 51, 359-376.	2.7	96
4	Random-walk-based stochastic modeling of three-dimensional fiber systems. <i>Physical Review E</i> , 2011, 83, 041804.	2.1	79
5	Random texture models for material structures. <i>Statistics and Computing</i> , 2000, 10, 121-132.	1.5	70
6	Morphological segmentation of FIB-SEM data of highly porous media. <i>Journal of Microscopy</i> , 2013, 250, 77-87.	1.8	68
7	3D DIRECTIONAL MATHEMATICAL MORPHOLOGY FOR ANALYSIS OF FIBER ORIENTATIONS. <i>Image Analysis and Stereology</i> , 2009, 28, 143.	0.9	43
8	Three-dimensional microtomographic study of Widmanstätten microstructures in an alpha/beta titanium alloy. <i>Scripta Materialia</i> , 2008, 58, 512-515.	5.2	39
9	Elastic behavior of composites containing Boolean random sets of inhomogeneities. <i>International Journal of Engineering Science</i> , 2009, 47, 313-324.	5.0	38
10	Morphology and effective properties of multi-scale random sets: A review. <i>Comptes Rendus - Mecanique</i> , 2012, 340, 219-229.	2.1	37
11	Influence of the fiber geometry on the macroscopic elastic and thermal properties. <i>International Journal of Solids and Structures</i> , 2014, 51, 3807-3822.	2.7	36
12	Imaging and 3D morphological analysis of collagen fibrils. <i>Journal of Microscopy</i> , 2012, 247, 161-175.	1.8	33
13	SEGMENTATION OF 2D AND 3D TEXTURES FROM ESTIMATES OF THE LOCAL ORIENTATION. <i>Image Analysis and Stereology</i> , 2008, 27, 183.	0.9	31
14	Size effect on elastic properties of random composites. <i>Engineering Computations</i> , 1994, 11, 99-110.	1.4	30
15	Microstructure-induced hotspots in the thermal and elastic responses of granular media. <i>International Journal of Solids and Structures</i> , 2013, 50, 1699-1709.	2.7	27
16	Two-dimensional (2D) and three-dimensional (3D) analyses of plasma-sprayed alumina microstructures for finite-element simulation of Young's modulus. <i>Journal of Materials Science</i> , 2008, 43, 4091-4098.	3.7	24
17	Caractéristiques morphologiques des constituants et comportement à la limite élastique d'un matériau biphasé Fe/Ag. <i>Revue De Physique Appliquée</i> , 1989, 24, 861-869.	0.4	23
18	3D MORPHOLOGICAL MODELLING OF A RANDOM FIBROUS NETWORK. <i>Image Analysis and Stereology</i> , 2009, 28, 129.	0.9	23

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19	Modelling mesoporous alumina microstructure with 3D random models of platelets. Journal of Microscopy, 2015, 260, 287-301.	1.8	22
20	Morphological modelling of three-phase microstructures of anode layers using SEM images. Journal of Microscopy, 2016, 263, 51-63.	1.8	20
21	Stokes Flow Through a Boolean Model of Spheres: Representative Volume Element. Transport in Porous Media, 2015, 109, 711-726.	2.6	19
22	Numerical modeling of the thermal expansion of an energetic material. International Journal of Solids and Structures, 2015, 60-61, 125-139.	2.7	18
23	Thermoelastic properties of microcracked polycrystals. Part I: Adequacy of Fourier-based methods for cracked elastic bodies. International Journal of Solids and Structures, 2018, 155, 248-256.	2.7	18
24	Random Structure Models for Homogenization and Fracture Statistics. , 2001, , 33-91.		16
25	3D Morphological Characterization of Phonic Insulation Fibrous Media. Advanced Engineering Materials, 2011, 13, 156-164.	3.5	15
26	Estimation of acoustic properties and of the representative volume element of random fibrous media. Journal of Applied Physics, 2013, 113, .	2.5	15
27	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
28	DAMAGE SIMULATION IN HETEROGENEOUS MATERIALS FROM GEODESIC PROPAGATIONS. Engineering Computations, 1993, 10, 81-91.	1.4	12
29	Random Structures in Physics. , 2005, , 183-219.		12
30	Prediction of Effective Properties of Porous Carbon Electrodes from a Parametric 3D Random Morphological Model. Transport in Porous Media, 2017, 120, 141-165.	2.6	12
31	Thermoelastic properties of microcracked polycrystals. Part II: The case of jointed polycrystalline TATB. International Journal of Solids and Structures, 2018, 155, 257-274.	2.7	12
32	On image analysis and micromechanics. Revue De Physique Appliquée, 1988, 23, 549-556.	0.4	12
33	RANDOM STRUCTURE MODELS FOR COMPOSITE MEDIA AND FRACTURE STATISTICS. Series on Advances in Mathematics for Applied Sciences, 1994, , 239-289.	0.1	12
34	Stereological reconstruction of polycrystalline materials. Journal of Microscopy, 2015, 258, 190-199.	1.8	11
35	Power Laws Variance Scaling of Boolean Random Varieties. Methodology and Computing in Applied Probability, 2016, 18, 1065-1079.	1.2	11
36	Computational Homogenization of Architected Materials. Springer Series in Materials Science, 2019, , 89-139.	0.6	5

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37	The thermoelastic response of cracked polycrystals with hexagonal symmetry. Philosophical Magazine, 2019, 99, 606-630.	1.6	5
38	Modelling of the microstructure of mesoporous alumina constrained by morphological simulation of nitrogen porosimetry. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 553, 378-396.	4.7	4
39	Towards crack paths simulations in media with a random fracture energy. International Journal of Solids and Structures, 2020, 184, 279-286.	2.7	4
40	Etude numérique et statistique du comportement d'un composite thermoplastique. Revue Des Composites Et Des Matériaux Avancés, 2011, 21, 221-254.	0.6	4
41	A novel physisorption model based on mathematical morphology operators preserving exact pore morphology and connectivity. Microporous and Mesoporous Materials, 2022, 337, 111847.	4.4	4
42	Iterated Boolean random varieties and application to fracture statistics models. Applications of Mathematics, 2016, 61, 363-386.	0.9	2
43	SOME DENSE RANDOM PACKINGS GENERATED BY THE DEAD LEAVES MODEL. Image Analysis and Stereology, 2019, 38, 3.	0.9	2
44	Morphological Models. , 2018, , 1-12.		0
45	Morphological Models. , 2020, , 1754-1764.		0