

Emmanuel Roubin

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

276
citations

1307594

7
h-index

1199594

12
g-index

17
all docs

17
docs citations

17
times ranked

273
citing authors

#	ARTICLE	IF	CITATIONS
1	spam: Software for Practical Analysis of Materials. Journal of Open Source Software, 2020, 5, 2286.	4.6	97
2	Multi-scale failure of heterogeneous materials: A double kinematics enhancement for Embedded Finite Element Method. International Journal of Solids and Structures, 2015, 52, 180-196.	2.7	49
3	Phase segmentation of concrete x-ray tomographic images at meso-scale: Validation with neutron tomography. Cement and Concrete Composites, 2018, 88, 8-16.	10.7	32
4	The colours of concrete as seen by X-rays and neutrons. Cement and Concrete Composites, 2019, 104, 103336.	10.7	25
5	Tensile failure of micro-concrete: from mechanical tests to FE meso-model with the help of X-ray tomography. Meccanica, 2019, 54, 707-722.	2.0	21
6	Meso-scale modeling of concrete: A morphological description based on excursion sets of Random Fields. Computational Materials Science, 2015, 102, 183-195.	3.0	18
7	Poroelastic two-phase material modeling: theoretical formulation and embedded finite element method implementation. International Journal for Numerical and Analytical Methods in Geomechanics, 2015, 39, 1255-1275.	3.3	13
8	Critical probability of percolation over bounded region in N-dimensional Euclidean space. Journal of Statistical Mechanics: Theory and Experiment, 2016, 2016, 033306.	2.3	6
9	Strong discontinuity FE analysis for heterogeneous materials: The role of crack closure mechanism. Computers and Structures, 2021, 251, 106556.	4.4	5
10	FE modeling of concrete with strong discontinuities for 3D shear fractures and comparison with experimental results. Engineering Fracture Mechanics, 2021, 251, 107752.	4.3	4
11	The embedded finite element method (E-FEM) for multicracking of quasi-brittle materials. , 2017, , 177-196.		3
12	General Consistency of Strong Discontinuity Kinematics in Embedded Finite Element Method (E-FEM) Formulations. Materials, 2021, 14, 5640.	2.9	2
13	FE design for the numerical modelling of failure induced by differential straining in meso-scale concrete: Algorithmic implementation based on operator split method. Finite Elements in Analysis and Design, 2017, 137, 11-25.	3.2	1
14	Tensile Damage Mechanisms of Concrete Using X-Ray: In Situ Experiments and Mesoscopic Modeling. , 2021, , 1-36.		0
15	Damage and Fracture in Brittle Materials with Enriched Finite Element Method: Numerical Study. , 2020, , 1-32.		0
16	Damage and Fracture in Brittle Materials with Enriched Finite Element Method: Numerical Study. , 2022, , 769-800.		0
17	Tensile Damage Mechanisms of Concrete Using X-Ray: In Situ Experiments and Mesoscopic Modeling. , 2022, , 453-488.		0