

Emmanuel Roubin

List of Publications by Year in descending order

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papers

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273
citing authors

#	ARTICLE	IF	CITATIONS
1	Damage and Fracture in Brittle Materials with Enriched Finite Element Method: Numerical Study. , 2022, , 769-800.		0
2	Tensile Damage Mechanisms of Concrete Using X-Ray: In Situ Experiments and Mesoscopic Modeling. , 2022, , 453-488.		0
3	Tensile Damage Mechanisms of Concrete Using X-Ray: In Situ Experiments and Mesoscopic Modeling. , 2021, , 1-36.		0
4	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
5	Strong discontinuity FE analysis for heterogeneous materials: The role of crack closure mechanism. Computers and Structures, 2021, 251, 106556.	4.4	5
6	General Consistency of Strong Discontinuity Kinematics in Embedded Finite Element Method (E-FEM) Formulations. Materials, 2021, 14, 5640.	2.9	2
7	spam: Software for Practical Analysis of Materials. Journal of Open Source Software, 2020, 5, 2286.	4.6	97
8	Damage and Fracture in Brittle Materials with Enriched Finite Element Method: Numerical Study. , 2020, , 1-32.		0
9	The colours of concrete as seen by X-rays and neutrons. Cement and Concrete Composites, 2019, 104, 103336.	10.7	25
10	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
11	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
12	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
13	The embedded finite element method (E-FEM) for multicracking of quasi-brittle materials. , 2017, , 177-196.		3
14	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
15	Poroeastic 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
16	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
17	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