

Z Yang

List of Publications by Year in descending order

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16
papers

1,617
citations

686830

13
h-index

940134

16
g-index

16
all docs

16
docs citations

16
times ranked

1139
citing authors

#	ARTICLE	IF	CITATIONS
1	3D meso-scale fracture modelling and validation of concrete based on in-situ X-ray Computed Tomography images using damage plasticity model. <i>International Journal of Solids and Structures</i> , 2015, 67-68, 340-352.	1.3	323
2	Two-dimensional X-ray CT image based meso-scale fracture modelling of concrete. <i>Engineering Fracture Mechanics</i> , 2015, 133, 24-39.	2.0	289
3	Monte Carlo simulations of mesoscale fracture modelling of concrete with random aggregates and pores. <i>Construction and Building Materials</i> , 2015, 75, 35-45.	3.2	243
4	In-situ X-ray computed tomography characterisation of 3D fracture evolution and image-based numerical homogenisation of concrete. <i>Cement and Concrete Composites</i> , 2017, 75, 74-83.	4.6	161
5	Monte Carlo simulations of mesoscale fracture of concrete with random aggregates and pores: a size effect study. <i>Construction and Building Materials</i> , 2015, 80, 262-272.	3.2	144
6	Full 3D finite element modelling of spiral strand cables. <i>Construction and Building Materials</i> , 2012, 35, 452-459.	3.2	83
7	Generation of micro-scale finite element models from synchrotron X-ray CT images for multidirectional carbon fibre reinforced composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 91, 85-95.	3.8	74
8	Micro X-ray computed tomography image-based two-scale homogenisation of ultra high performance fibre reinforced concrete. <i>Construction and Building Materials</i> , 2017, 130, 230-240.	3.2	70
9	Three-dimensional heterogeneous fracture simulation of asphalt mixture under uniaxial tension with cohesive crack model. <i>Construction and Building Materials</i> , 2015, 76, 103-117.	3.2	63
10	A local radial basis function collocation method for band structure computation of phononic crystals with scatterers of arbitrary geometry. <i>Applied Mathematical Modelling</i> , 2018, 60, 447-459.	2.2	63
11	A non-matching finite element-scaled boundary finite element coupled method for linear elastic crack propagation modelling. <i>Computers and Structures</i> , 2015, 153, 126-136.	2.4	37
12	A local radial basis function collocation method for band structure computation of 3D phononic crystals. <i>Applied Mathematical Modelling</i> , 2020, 77, 1954-1964.	2.2	26
13	Multiscale image-based modelling of damage and fracture in carbon fibre reinforced polymer composites. <i>Composites Science and Technology</i> , 2020, 198, 108243.	3.8	20
14	An adaptive stochastic multi-scale method for cohesive fracture modelling of quasi-brittle heterogeneous materials under uniaxial tension. <i>Engineering Fracture Mechanics</i> , 2016, 163, 499-522.	2.0	9
15	Spiral strand cables subjected to high velocity fragment impact. <i>International Journal of Impact Engineering</i> , 2017, 107, 58-79.	2.4	9
16	Seismic Performance of Multistorey Masonry Structure with Openings Repaired with CFRP Grid. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-11.	0.4	3