Jerzy BobiÅ„ski

List of Publications by Year
in descending order

18	449	933447 10	940533 16
papers	citations	h-index	g-index

19	19	19	319
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A three-dimensional meso-scale modelling of concrete fracture, based on cohesive elements and X-ray Î¼CT images. Engineering Fracture Mechanics, 2018, 189, 27-50.	4.3	97
2	Two-dimensional simulations of concrete fracture at aggregate level with cohesive elements based on X-ray Î¼CT images. Engineering Fracture Mechanics, 2016, 168, 204-226.	4.3	88
3	FE analysis of failure behaviour of reinforced concrete columns under eccentric compression. Engineering Structures, 2008, 30, 300-317.	5.3	64
4	FE analysis of reinforced concrete corbels with enhanced continuum models. Finite Elements in Analysis and Design, 2011, 47, 1066-1078.	3.2	30
5	Simulations of spacing of localized zones in reinforced concrete beams using elasto-plasticity and damage mechanics with non-local softening. Computers and Concrete, 2007, 4, 377-402.	0.7	29
6	Comparison of continuous and discontinuous constitutive models to simulate concrete behaviour under mixedâ€•mode failure conditions. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 406-435.	3.3	26
7	A coupled constitutive model for fracture in plain concrete based on continuum theory with non-local softening and eXtended Finite Element Method. Finite Elements in Analysis and Design, 2016, 114, 1-21.	3.2	26
8	Continuous and Discontinuous Modelling of Fracture in Concrete Using FEM. Springer Series in Geomechanics and Geoengineering, 2013, , .	0.1	24
9	Meso-scale analyses of size effect in brittle materials using DEM. Granular Matter, 2019, 21, 1.	2.2	21
10	Effect of a characteristic length on crack spacing in a reinforced concrete bar under tension. Mechanics Research Communications, 2007, 34, 460-465.	1.8	14
11	Modelling reinforced concrete beams under mixed shear-tension failure with different continuous FE approaches. Computers and Concrete, 2013, 12, 585-612.	0.7	12
12	On Some Problems in Determining Tensile Parameters of Concrete Model from Size Effect Tests. Polish Maritime Research, 2019, 26, 115-125.	1.9	7
13	Finite element analysis on failure of reinforced concrete corner in sewage tank under opening bending moment. Engineering Structures, 2021, 228, 111506.	5.3	4
14	Application of Extended Finite Element Method to Cracked Concrete Elements â€“ Numerical Aspects. Archives of Civil Engineering, 2012, 58, 409-431.	0.7	3
15	Quantitative Assessment of the Influence of Tensile Softening of Concrete in Beams under Bending by Numerical Simulations with XFEM and Cohesive Cracks. Materials, 2022, 15, 626.	2.9	2
16	Simulations of Shear Zones and Cracks in Engineering Materials Using eXtended Finite Element Method. Springer Series in Geomechanics and Geoengineering, 2015, , 1-6.	0.1	1
17	Size effect in concrete beams under bending â€“ influence of the boundary layer and the numerical description of cracks. MATEC Web of Conferences, 2019, 262, 10008.	0.2	1
18	A Rational Approach to Stress-Dilatancy Modelling Using an Explicit Micromechanical Formulation. , 2007, , 319-340.		0