

# Zdenek Bittnar

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

436  
citations

1163117

8  
h-index

1199594

12  
g-index

18  
all docs

18  
docs citations

18  
times ranked

560  
citing authors

#	ARTICLE	IF	CITATIONS
1	Material and structural characterization of alkali activated low-calcium brown coal fly ash. Journal of Hazardous Materials, 2009, 168, 711-720.	12.4	184
2	Microstructure-based micromechanical prediction of elastic properties in hydrating cement paste. Cement and Concrete Research, 2006, 36, 1708-1718.	11.0	136
3	Parallel explicit finite element solid dynamics with domain decomposition and message passing: dual partitioning scalability. Computers and Structures, 2001, 79, 345-360.	4.4	31
4	Multiscale simulations of concrete mechanical tests. Journal of Computational and Applied Mathematics, 2012, 236, 4882-4892.	2.0	30
5	Triangulation of 3D surfaces reconstructed by interpolating subdivision. Computers and Structures, 2004, 82, 2093-2103.	4.4	15
6	Microplane models: computational aspects and proposed parallel algorithm. Computers and Structures, 2002, 80, 2099-2108.	4.4	11
7	Vibration characteristics of a cooling-tower shell. Journal of Wind Engineering and Industrial Aerodynamics, 1983, 12, 145-154.	3.9	8
8	Experimental investigation and numerical simulation of post-peak behavior and size effect of reinforced concrete columns. Materials and Structures/Materiaux Et Constructions, 2004, 37, 161-169.	3.1	8
9	Static load balancing applied to Schur complement method. Computers and Structures, 2007, 85, 489-498.	4.4	6
10	DETERMINING THE ROLE OF INDIVIDUAL FLY ASH PARTICLES IN INFLUENCING THE VARIATION IN THE OVERALL PHYSICAL, MORPHOLOGICAL, AND CHEMICAL PROPERTIES OF FLY ASH. Acta Polytechnica, 2016, 56, 265-282.	0.6	3
11	Reinforcement-Matrix Interaction Modeled by FETI Method. Lecture Notes in Computational Science and Engineering, 2008, , 567-573.	0.3	2
12	Using the recursive subdivision and the advancing front technique for the discretization of multi-phase microstructures. Advances in Engineering Software, 2013, 62-63, 39-50.	3.8	1
13	The Behavior of Fly Ash in Concrete Mixture. Key Engineering Materials, 0, 714, 103-106.	0.4	1
14	Model-Based Simulation of Durability of Materials and Structures. Journal of Materials in Civil Engineering, 2005, 17, 239-240.	2.9	0
15	Problems with Variability in Using Fly Ash in Mixed Cement. Advanced Materials Research, 0, 969, 308-311.	0.3	0
16	Determination of the Failure on the Concrete Runway. Advanced Materials Research, 0, 969, 109-112.	0.3	0
17	Dry separation of brown coal fly ash, determination of its physical, morphological, chemical, and mechanical properties of its cementitious mixes. Periodica Polytechnica: Civil Engineering, 2017, , .	0.6	0
18	Mechanical behaviour and durability of high volume fly ash cementitious composites. Frattura Ed Integrita Strutturale, 2016, 10, 305-318.	0.9	0