

Martijn Stroeven

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,122
citations

430754

18
h-index

610775

24
g-index

26
all docs

26
docs citations

26
times ranked

866
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | MULTISCALE CONTINUOUS AND DISCONTINUOUS MODELING OF HETEROGENEOUS MATERIALS: A REVIEW ON RECENT DEVELOPMENTS. <i>Journal of Multiscale Modeling</i> , 2011, 03, 229-270. | 1.0 | 143 |
| 2 | Homogenization-based multiscale crack modelling: From micro-diffusive damage to macro-cracks. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 1220-1236. | 3.4 | 133 |
| 3 | On the existence of representative volumes for softening quasi-brittle materials – A failure zone averaging scheme. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 3028-3038. | 3.4 | 115 |
| 4 | Multiscale failure modeling of concrete: Micromechanical modeling, discontinuous homogenization and parallel computations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 201-204, 139-156. | 3.4 | 111 |
| 5 | Assessment of packing characteristics by computer simulation. <i>Cement and Concrete Research</i> , 1999, 29, 1201-1206. | 4.6 | 84 |
| 6 | Computational homogenization for multiscale crack modeling. Implementational and computational aspects. <i>International Journal for Numerical Methods in Engineering</i> , 2012, 89, 192-226. | 1.5 | 77 |
| 7 | An enhanced continuous–discontinuous multiscale method for modeling mode-I cohesive failure in random heterogeneous quasi-brittle materials. <i>Engineering Fracture Mechanics</i> , 2012, 79, 78-102. | 2.0 | 55 |
| 8 | Reconstructions by SPACE of the Interfacial Transition Zone. <i>Cement and Concrete Composites</i> , 2001, 23, 189-200. | 4.6 | 50 |
| 9 | Characterization of the packing of aggregate in concrete by a discrete element approach. <i>Materials Characterization</i> , 2009, 60, 1082-1087. | 1.9 | 44 |
| 10 | SPACE system for simulation of aggregated matter application to cement hydration. <i>Cement and Concrete Research</i> , 1999, 29, 1299-1304. | 4.6 | 37 |
| 11 | Particle packing in a model concrete at different levels of the microstructure: Evidence of an intrinsic patchy nature. <i>Materials Characterization</i> , 2009, 60, 1088-1092. | 1.9 | 34 |
| 12 | A numerical investigation into the influence of the interfacial transition zone on the permeability of partially saturated cement paste between aggregate surfaces. <i>Cement and Concrete Research</i> , 2017, 102, 99-108. | 4.6 | 32 |
| 13 | Influence of Boundary Conditions on Pore Percolation in Model Cement Paste. <i>Key Engineering Materials</i> , 2006, 302-303, 486-492. | 0.4 | 29 |
| 14 | Investigation of liquid water and gas permeability of partially saturated cement paste by DEM approach. <i>Cement and Concrete Research</i> , 2016, 83, 104-113. | 4.6 | 27 |
| 15 | Influence of particle packing on elastic properties of concrete. <i>Magazine of Concrete Research</i> , 2012, 64, 163-175. | 0.9 | 25 |
| 16 | Discrete element modelling approach to assessment of granular properties in concrete. <i>Journal of Zhejiang University: Science A</i> , 2011, 12, 335-344. | 1.3 | 24 |
| 17 | A novel numerical multi-component model for simulating hydration of cement. <i>Computational Materials Science</i> , 2013, 78, 12-21. | 1.4 | 19 |
| 18 | Capabilities for property assessment on different levels of the micro-structure of DEM-simulated cementitious materials. <i>Construction and Building Materials</i> , 2015, 88, 105-117. | 3.2 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | SELF-HEALING CAPACITY OF CONCRETE - COMPUTER SIMULATION STUDY OF UNHYDRATED CEMENT STRUCTURE. Image Analysis and Stereology, 2007, 26, 137. | 0.4 | 17 |
| 20 | Effects of technological parameters on permeability estimation of partially saturated cement paste by a DEM approach. Cement and Concrete Composites, 2017, 84, 222-231. | 4.6 | 14 |
| 21 | Influence of particle packing on fracture properties of concrete. Computers and Concrete, 2011, 8, 677-692. | 0.7 | 14 |
| 22 | Estimating permeability of cement paste using pore characteristics obtained from DEM-based modelling. Construction and Building Materials, 2016, 126, 740-746. | 3.2 | 10 |
| 23 | Optimization of particle packing by analytical and computer simulation approaches. Computers and Concrete, 2012, 9, 119-131. | 0.7 | 4 |
| 24 | On Connectivity of Porosity in Model Cement Paste. , 2006, , 25-34. | | 2 |
| 25 | Exploitation of Particle Migration Mechanism to Promote Economy and Ecology in Concrete Technology. Key Engineering Materials, 2006, 302-303, 19-25. | 0.4 | 2 |