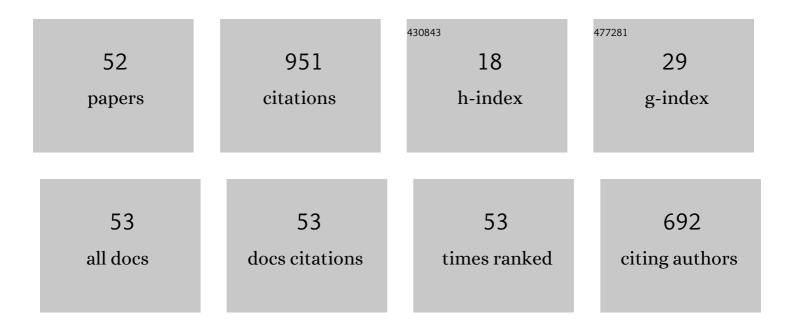
Stefano Dal Pont

List of Publications by Year in descending order

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STEEANO DAL PONT

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | On the performance of strain smoothing for quadratic and enriched finite element approximations (XFEM/GFEM/PUFEM). International Journal for Numerical Methods in Engineering, 2011, 86, 637-666. | 2.8 | 142 |
| 2 | Real-time water permeability evolution of a localized crack in concrete under loading. Cement and Concrete Research, 2014, 56, 20-28. | 11.0 | 71 |
| 3 | Analysis of moisture migration in concrete at high temperature through in-situ neutron tomography. Cement and Concrete Research, 2018, 111, 41-55. | 11.0 | 63 |
| 4 | Numerical and experimental analysis of chemical dehydration, heat and mass transfers in a concrete hollow cylinder submitted to high temperatures. International Journal of Heat and Mass Transfer, 2004, 47, 135-147. | 4.8 | 55 |
| 5 | From discrete to continuum modelling of boundary value problems in geomechanics: An integrated FEMâ€ĐEM approach. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 919-955. | 3.3 | 48 |
| 6 | A multiphase thermo-hydro-mechanical model for concrete at high temperatures—Finite element implementation and validation under LOCA load. Nuclear Engineering and Design, 2007, 237, 2137-2150. | 1.7 | 43 |
| 7 | Real-time evolution of electrical resistance in cracking concrete. Cement and Concrete Research, 2009, 39, 825-831. | 11.0 | 34 |
| 8 | Modeling concrete under severe conditions as a multiphase material. Nuclear Engineering and Design, 2011, 241, 562-572. | 1.7 | 33 |
| 9 | From local to global probabilistic modeling of concrete cracking. Annals of Solid and Structural Mechanics, 2010, 1, 103-115. | 0.5 | 31 |
| 10 | An experimental relationship between complete liquid saturation and violent damage in concrete submitted to high temperature. Magazine of Concrete Research, 2005, 57, 455-461. | 2.0 | 27 |
| 11 | A study of the influence of REV variability in doubleâ€scale FEM ×DEM analysis. International Journal for Numerical Methods in Engineering, 2016, 107, 882-900. | 2.8 | 26 |
| 12 | Macroscopic probabilistic cracking approach for the numerical modelling of fluid leakage in concrete. Annals of Solid and Structural Mechanics, 2015, 7, 1-16. | 0.5 | 25 |
| 13 | Modeling of 3D moisture distribution in heated concrete: From continuum towards mesoscopic approach. International Journal of Heat and Mass Transfer, 2019, 134, 1137-1152. | 4.8 | 25 |
| 14 | Size Effect in Concrete Intrinsic Permeability Measurements. Transport in Porous Media, 2010, 85, 541-564. | 2.6 | 21 |
| 15 | A threeâ€dimensional staggered finite element approach for random parametric modeling of thermoâ€hygral coupled phenomena in porous media. International Journal for Numerical and Analytical Methods in Geomechanics, 2012, 36, 574-596. | 3.3 | 21 |
| 16 | FEM×DEM multiscale modeling: Model performance enhancement from Newton strategy to element loop parallelization. International Journal for Numerical Methods in Engineering, 2018, 114, 47-65. | 2.8 | 20 |
| 17 | COST TU1404 benchmark on macroscopic modelling of concrete and concrete structures at early age: Proof-of-concept stage. Construction and Building Materials, 2018, 174, 173-189. | 7.2 | 19 |
| 18 | Accounting for Small-Scale Heterogeneity and Variability of Clay Rock in Homogenised Numerical Micromechanical Response and Microcracking. Rock Mechanics and Rock Engineering, 2020, 53, 2727-2746. | 5.4 | 19 |

STEFANO DAL PONT

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Intrinsic Permeability Evolution in High Temperature Concrete: An Experimental and Numerical Analysis. Transport in Porous Media, 2005, 60, 43-74. | 2.6 | 16 |
| 20 | Modeling concrete exposed to high temperature: Impact of dehydration and retention curves on moisture migration. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 1516-1530. | 3.3 | 16 |
| 21 | A theory for multiple collisions of rigid solids and numerical simulation of granular flow. International Journal of Solids and Structures, 2006, 43, 6100-6114. | 2.7 | 13 |
| 22 | Comparative Analysis of Coupled Thermo-Hydro-Mechanical Models for Concrete Exposed to Moderate Temperatures. Numerical Heat Transfer; Part A: Applications, 2009, 55, 654-682. | 2.1 | 13 |
| 23 | Staggered Finite Volume Modeling of Transport Phenomena in Porous Materials with Convective Boundary Conditions. Transport in Porous Media, 2010, 82, 275-298. | 2.6 | 13 |
| 24 | Experimental and finite element analysis of a hollow cylinder submitted to high temperatures. Materials and Structures/Materiaux Et Constructions, 2005, 38, 681-690. | 3.1 | 12 |
| 25 | On the threshold crack opening effect on the intrinsic permeability of localized macro-cracks in concrete samples under Brazilian test conditions. Mechanics Research Communications, 2018, 90, 52-58. | 1.8 | 12 |
| 26 | Modelling crowd-structure interaction. Mecanique Et Industries, 2010, 11, 495-504. | 0.2 | 10 |
| 27 | Smooth/non-smooth contact modeling of human crowds movement: numerical aspects and application to emergency evacuations. Annals of Solid and Structural Mechanics, 2011, 2, 69-85. | 0.5 | 10 |
| 28 | New continuous strainâ€based description of concrete's damageâ€permeability coupling. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 1671-1697. | 3.3 | 10 |
| 29 | Homogenization of a cracked saturated porous medium: Theoretical aspects and numerical implementation. International Journal of Solids and Structures, 2016, 94-95, 222-237. | 2.7 | 9 |
| 30 | Towards a single-phase mixed formulation of refractory castables and structural concrete at high temperatures. International Journal of Heat and Mass Transfer, 2021, 171, 121064. | 4.8 | 8 |
| 31 | Heterogeneity and Variability of Clay Rock Microstructure in a Hydro-Mechanical Double Scale FEM × FEM Analysis. Trends in Mathematics, 2018, , 247-256. | 0.1 | 7 |
| 32 | Quantification of evolving moisture profiles in concrete samples subjected to temperature gradient by means of rapid neutron tomography: Influence of boundary conditions, hygroâ€thermal loading history and spalling mitigation additives. Strain, 2020, 56, e12371. | 2.4 | 7 |
| 33 | Discrete approaches for crowd movement modelling. European Journal of Computational Mechanics, 2011, 20, 189-206. | 0.6 | 6 |
| 34 | FEM × DEM: a new efficient multi-scale approach for geotechnical problems with strain localization. EPJ Web of Conferences, 2017, 140, 11007. | 0.3 | 6 |
| 35 | An original semiâ€discrete approach to assess gas conductivity of concrete structures. International Journal for Numerical and Analytical Methods in Geomechanics, 2017, 41, 940-956. | 3.3 | 6 |
| 36 | Some Observations on Testing Conditions of High-Temperature Experiments on Concrete: An Insight from Neutron Tomography. Transport in Porous Media, 2020, 132, 299-310. | 2.6 | 6 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Simultaneous x-ray and neutron 4D tomographic study of drying-driven hydro-mechanical behavior of cement-based materials at moderate temperatures. Cement and Concrete Research, 2021, 147, 106503. | 11.0 | 6 |
| 38 | Theoretical approach to and numerical simulation of instantaneous collisions in granular media using the A-CD2method. Communications in Applied Mathematics and Computational Science, 2008, 3, 1-24. | 1.8 | 6 |
| 39 | The non-smooth view for contact dynamics by Michel Frémond extended to the modeling of crowd movements. Discrete and Continuous Dynamical Systems - Series S, 2013, 6, 547-565. | 1.1 | 6 |
| 40 | Experimental proof of moisture clog through neutron tomography in a porous medium under truly oneâ€directional drying. Journal of the American Ceramic Society, 2022, 105, 3534-3543. | 3.8 | 6 |
| 41 | Restoring Mesh Independency in FEM-DEM Multi-scale Modelling of Strain Localization Using Second Gradient Regularization. Springer Series in Geomechanics and Geoengineering, 2017, , 453-457. | 0.1 | 5 |
| 42 | Direct comparison of multi and single-phase models depicting the drying process of refractory castables. Open Ceramics, 2021, 6, 100111. | 2.0 | 4 |
| 43 | Experimental and finite element analysis of a hollow cylinder submitted to high temperatures. Materials and Structures/Materiaux Et Constructions, 2005, 38, 681-690. | 3.1 | 4 |
| 44 | A finite element modeling of thermo-hydro-mechanical behavior and numerical simulations of progressing spalling front. Procedia Engineering, 2011, 10, 3128-3133. | 1.2 | 3 |
| 45 | Modeling of fluid leakage through multi-cracked RC structural elements using a numerical probabilistic cracking approach. Materials and Structures/Materiaux Et Constructions, 2016, 49, 3095-3108. | 3.1 | 3 |
| 46 | Influence of common simplifications on the drying of cement-based materials up to moderate temperatures. International Journal of Heat and Mass Transfer, 2020, 150, 119254. | 4.8 | 2 |
| 47 | Modelling the multiscale behaviour of claystone: deformation, rupture, and hydro-mechanical phenomena around underground galleries. E3S Web of Conferences, 2020, 205, 10003. | 0.5 | 2 |
| 48 | Drying of mortar at ambient temperature studied using high resolution neutron tomography and numerical modeling. Cement and Concrete Composites, 2022, 131, 104586. | 10.7 | 1 |
| 49 | Induced Anisotropic Gas Permeability of Concrete due to Coupled Effect of Drying and Temperature. Key Engineering Materials, 0, 711, 871-878. | 0.4 | Ο |
| 50 | Mechanical characterization of Hyposand: A new material of sand solidified by sodium thiosulphate salt. Construction and Building Materials, 2019, 221, 479-490. | 7.2 | 0 |
| 51 | Advanced Modelling. RILEM State-of-the-Art Reports, 2019, , 27-65. | 0.7 | 0 |
| 52 | Coupling Cracking and Permeability to Assess the Leakage Rate of Concrete Structures. , 0, , . | | 0 |