

# Joana Fonseca

## List of Publications by Year in descending order

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Version: 2024-02-01

24  
papers

778  
citations

759055

12  
h-index

677027

22  
g-index

24  
all docs

24  
docs citations

24  
times ranked

620  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Comparison of 2D Optical Imaging and 3D Microtomography Shape Measurements of a Coastal Bioclastic Calcareous Sand. <i>Journal of Imaging</i> , 2022, 8, 72.          | 1.7 | 5         |
| 2  | A micro finite-element model for soil behaviour: experimental evaluation for sand under triaxial compression. <i>Geotechnique</i> , 2020, 70, 931-936.                | 2.2 | 11        |
| 3  | On the kinematics of shelly carbonate sand using X-ray micro tomography. <i>Engineering Geology</i> , 2019, 261, 105268.  | 2.9 | 26        |
| 4  | Particle-scale interactions and energy dissipation mechanisms in sand-rubber mixtures. <i>Geotechnique Letters</i> , 2019, 9, 263-268.                                | 0.6 | 20        |
| 5  | Image based simulation of one-dimensional compression tests on carbonate sand. <i>Meccanica</i> , 2019, 54, 697-706.  | 1.2 | 6         |
| 6  | Image-Based Modelling of Shelly Carbonate Sand for Foundation Design of Offshore Structures. <i>Lecture Notes in Civil Engineering</i> , 2019, , 55-60.               | 0.3 | 0         |
| 7  | Investigation of the change in soil fabric during cone penetration in silt using 2D measurements. <i>Acta Geotechnica</i> , 2018, 13, 135-148.                        | 2.9 | 7         |
| 8  | Quantification of the morphology of shelly carbonate sands using 3D images. <i>Geotechnique</i> , 2018, 68, 249-261.  | 2.2 | 102       |
| 9  | A micro finite-element model for soil behaviour: numerical validation. <i>Geotechnique</i> , 2018, 68, 364-369.   | 2.2 | 14        |
| 10 | A micro finite-element model for soil behaviour. <i>Geotechnique</i> , 2018, 68, 290-302.   | 2.2 | 12        |
| 11 | Single-Grain Virtualization for Contact Behavior Analysis on Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, .              | 1.5 | 9         |
| 12 | On the tensile strength of soil grains in Hertzian response. <i>EPJ Web of Conferences</i> , 2017, 140, 07001.  | 0.1 | 3         |
| 13 | Enhancing soil sample preparation by thermal cycling. <i>Geotechnique</i> , 2016, 66, 953-958.  | 2.2 | 9         |
| 14 | Microstructural study of deformation zones during cone penetration in silt at variable penetration rates. <i>Canadian Geotechnical Journal</i> , 2015, 52, 2088-2098. | 1.4 | 7         |
| 15 | Microstructural analysis of sands with varying degrees of internal stability. <i>Geotechnique</i> , 2015, 65, 620-623.  | 2.2 | 3         |
| 16 | Experimental study on the vertical deformation of sand caused by cyclic withdrawal and recharging of groundwater. <i>Engineering Geology</i> , 2014, 183, 247-253.    | 2.9 | 19        |
| 17 | Microstructural analysis of sands with varying degrees of internal stability. <i>Geotechnique</i> , 2014, 64, 405-411.  | 2.2 | 39        |
| 18 | Synchrotron Radiography Studies of Shear-Induced Dilation in Semisolid Al Alloys and Steels. <i>Jom</i> , 2014, 66, 1415-1424.  | 0.9 | 13        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Quantifying the evolution of soil fabric during shearing using directional parameters. Geotechnique, 2013, 63, 487-499.                | 2.2 | 130       |
| 20 | In situ study of granular micromechanics in semi-solid carbon steels. Acta Materialia, 2013, 61, 4169-4179.                            | 3.8 | 34        |
| 21 | Quantifying the evolution of soil fabric during shearing using scalar parameters. Geotechnique, 2013, 63, 818-829.                     | 2.2 | 79        |
| 22 | Micromechanisms of inelastic deformation in sandstones: an insight using x-ray micro-tomography. Geotechnique Letters, 2013, 3, 78-83. | 0.6 | 29        |
| 23 | Non-invasive characterization of particle morphology of natural sands. Soils and Foundations, 2012, 52, 712-722.                       | 1.3 | 194       |
| 24 | Image Segmentation Techniques for Granular Materials. , 2009, , .  |     | 7         |