

# Carlos Ovalle

## List of Publications by Year in descending order

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Version: 2024-02-01

22  
papers

436  
citations

933447

10  
h-index

794594

19  
g-index

23  
all docs

23  
docs citations

23  
times ranked

271  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Packing properties and steady strength of cemented loose granular materials. Computers and Geotechnics, 2022, 141, 104550.   | 4.7 | 0         |
| 2  | Microstructural origins of crushing strength for inherently anisotropic brittle materials. International Journal of Solids and Structures, 2022, 238, 111399.  | 2.7 | 2         |
| 3  | Effects of particle sizeâ€šshape correlations on steady shear strength of granular materials: The case of particle elongation. International Journal for Numerical and Analytical Methods in Geomechanics, 2022, 46, 979-1000. | 3.3 | 8         |
| 4  | Results of a critical state line testing round robin programme. Geotechnique, 2021, 71, 616-630.   | 4.0 | 32        |
| 5  | Mechanical behaviour of undisturbed diatomaceous soil. Marine Georesources and Geotechnology, 2021, 39, 623-630.   | 2.1 | 20        |
| 6  | Modelling size effect on rock aggregates strength using a DEM bonded-cell model. Acta Geotechnica, 2021, 16, 699-709.  | 5.7 | 11        |
| 7  | Strength and energy consumption of inherently anisotropic rocks at failure. EPJ Web of Conferences, 2021, 249, 07003.  | 0.3 | 1         |
| 8  | Testing and modelling total suction effects on compressibility and creep of crushable granular material. Soils and Foundations, 2021, 61, 1581-1596.   | 3.1 | 1         |
| 9  | Evaluation of the Effectiveness of a Soil Treatment Using Calcium Carbonate Precipitation from Cultivated and Lyophilized Bacteria in Soilâ€™s Compaction Water. Buildings, 2021, 11, 545.                                     | 3.1 | 4         |
| 10 | Modeling the effect of wetting on the mechanical behavior of crushable granular materials. Geoscience Frontiers, 2020, 11, 487-494.  | 8.4 | 15        |
| 11 | Data Compilation from Large Drained Compression Triaxial Tests on Coarse Crushable Rockfill Materials. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .   | 3.0 | 19        |
| 12 | Effects of particle sizeâ€™strength and sizeâ€™shape correlations on parallel grading scaling. Geotechnique Letters, 2020, 10, 191-197.  | 1.2 | 20        |
| 13 | Particle size effects on the water retention properties of colluvial sediments. Japanese Geotechnical Society Special Publication, 2019, 7, 335-339.   | 0.2 | 1         |
| 14 | Compressibility and creep of a diatomaceous soil. Engineering Geology, 2019, 258, 105145.  | 6.3 | 29        |
| 15 | Behavior of Granular Materials Affected by Grain Breakage. , 2018, , 95-132.   |     | 4         |
| 16 | Role of particle breakage in primary and secondary compression of wet and dry sand. Geotechnique Letters, 2018, 8, 161-164.  | 1.2 | 8         |
| 17 | Experimental framework for evaluating the mechanical behavior of dry and wet crushable granular materials based on the particle breakage ratio. Canadian Geotechnical Journal, 2015, 52, 587-598.                              | 2.8 | 84        |
| 18 | The effect of size on the strength of coarse rock aggregates and large rockfill samples through experimental data. Acta Mechanica, 2014, 225, 2199-2216.   | 2.1 | 129       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Experimental Data Highlighting the Role of Surface Fracture Energy in Quasi-Static Confined Comminution. International Journal of Fracture, 2013, 182, 123-130. | 2.2 | 28        |
| 20 | Influence of Grain Size Distribution on Critical State of Granular Materials. Springer Series in Geomechanics and Geoengineering, 2013, , 207-210.              | 0.1 | 15        |
| 21 | A probabilistic approach of confined comminution in polydisperse granular materials. AIP Conference Proceedings, 2013, , .                                      | 0.4 | 3         |
| 22 | Results of a critical state line testing round robin programme. Geotechnique, 0, , 1-2.   | 4.0 | 1         |