Hadrien Rattez

List of Publications by Year
in descending order

14	228	1163117 8	1125743 13
papers	citations	h-index	g-index

17	17	17	134
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of grain size distribution on the shear band thickness evolution in sand. Geotechnique, 2022, 72, 350-363.	4.0	27
2	Morphometric description of strength and degradation in porous media. International Journal of Solids and Structures, 2022, 241, 111454.	2.7	6
3	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e349" altimg="si68.svg"><mml:mi mathvariant="normal">Î¼</mml:mi></mml:math>CT scans permeability computation with an unfitted boundary method to improve coarsening accuracy. Computers and Geosciences, 2022, 166, 105118.	4.2	6
4	Influence of cementation on the yield surface of rocks numerically determined from digital microstructures. International Journal of Plasticity, 2022, 156, 103338.	8.8	2
5	Influence of dissolution on long-term frictional properties of carbonate fault gouge. Geomechanics for Energy and the Environment, 2021, 26, 100234.	2.5	5
6	Strain localization regularization and patterns formation in rate-dependent plastic materials with multiphysics coupling. Journal of the Mechanics and Physics of Solids, 2021, 152, 104422.	4.8	9
7	Viscous phase-field modeling for chemo-mechanical microstructural evolution: application to geomaterials and pressure solution. International Journal of Solids and Structures, 2020, 207, 230-249.	2.7	13
8	On the Stability of Deepâ€Seated Landslides. The Cases of Vaiont (Italy) and Shuping (Three Gorges Dam,) Tj ETQq0 0 0 rgBT /Overlock	2.8	23
9	Weak phases production and heat generation control fault friction during seismic slip. Nature Communications, 2020, 11, 350.	12.8	27
10	The importance of Thermo-Hydro-Mechanical couplings and microstructure to strain localization in 3D continua with application to seismic faults. Part II: Numerical implementation and post-bifurcation analysis. Journal of the Mechanics and Physics of Solids, 2018, 115, 1-29.	4.8	37
11	The importance of Thermo-Hydro-Mechanical couplings and microstructure to strain localization in 3D continua with application to seismic faults. Part I: Theory and linear stability analysis. Journal of the Mechanics and Physics of Solids, 2018, 115, 54-76.	4.8	39
12	Numerical Analysis of Strain Localization in Rocks with Thermo-hydro-mechanical Couplings Using Cosserat Continuum. Rock Mechanics and Rock Engineering, 2018, 51, 3295-3311.	5.4	26
13	Localisation of Deformation for Shearing of a Fault Gouge with Cosserat Microstructure and Different Couplings. Springer Series in Geomechanics and Geoengineering, 2017, , 155-160.	0.1	2
14	Cosserat Approach to Localization in Geomaterials. , 2017, , 1-25.		5