

# Hadrien Rattiez

## List of Publications by Year in descending order

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14  
papers

228  
citations

1163117

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h-index

1125743

13  
g-index

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docs citations

17  
times ranked

134  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Effect of grain size distribution on the shear band thickness evolution in sand. Geotechnique, 2022, 72, 350-363.	4.0	27
4	Weak phases production and heat generation control fault friction during seismic slip. Nature Communications, 2020, 11, 350.	12.8	27
5	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
6	On the Stability of Deep-seated Landslides. The Cases of Vaiont (Italy) and Shuping (Three Gorges Dam,) Tj ETQq000 rgBTJOverlock	2.8	23
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	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
9	Morphometric description of strength and degradation in porous media. International Journal of Solids and Structures, 2022, 241, 111454.	2.7	6
10	$\frac{1}{4}$ CT scans permeability computation with an unfitted boundary method to improve coarsening accuracy. Computers and Geosciences, 2022, 166, 105118.	4.2	6
11	Influence of dissolution on long-term frictional properties of carbonate fault gouge. Geomechanics for Energy and the Environment, 2021, 26, 100234.	2.5	5
12	Cosserat Approach to Localization in Geomaterials. , 2017, , 1-25.		5
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	Influence of cementation on the yield surface of rocks numerically determined from digital microstructures. International Journal of Plasticity, 2022, 156, 103338.	8.8	2