

# Manolis Veveakis

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4746938/publications.pdf>

Version: 2024-02-01

56  
papers

697  
citations

516215

16  
h-index

580395

25  
g-index

63  
all docs

63  
docs citations

63  
times ranked

476  
citing authors

#	ARTICLE	IF	CITATIONS
1	A viscoplastic approach for pore collapse in saturated soft rocks using REDBACK: An open-source parallel simulator for Rock mEchanics with Dissipative feedBACKs. Computers and Geotechnics, 2016, 74, 211-221.	2.3	44
2	Modeling episodic fluidâ€release events in the ductile carbonates of the Glarus thrust. Geophysical Research Letters, 2014, 41, 7121-7128.	1.5	43
3	Multiscale coupling and multiphysics approaches in earth sciences: Theory. Journal of Coupled Systems and Multiscale Dynamics, 2013, 1, 49-73.	0.2	42
4	Multi-Physics Modelling of Fault Mechanics Using REDBACK: A Parallel Open-Source Simulator for Tightly Coupled Problems. Rock Mechanics and Rock Engineering, 2017, 50, 733-749.	2.6	42
5	Failure in shear bands for granular materials: thermo-hydro-chemo-mechanical effects. Geotechnique Letters, 2013, 3, 31-36.	0.6	40
6	Zebra rocks: compaction waves create ore deposits. Scientific Reports, 2017, 7, 14260.	1.6	38
7	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.	2.3	37
8	Multiscale coupling and multiphysics approaches in earth sciences: Applications. Journal of Coupled Systems and Multiscale Dynamics, 2013, 1, 281-323.	0.2	34
9	Total Porosity of Tight Rocks: A Welcome to the Heat Transfer Technique. Energy & Fuels, 2016, 30, 10072-10079.	2.5	27
10	A Framework for Fracture Network Formation in Overpressurised Impermeable Shale: Deformability Versus Diagenesis. Rock Mechanics and Rock Engineering, 2017, 50, 689-703.	2.6	27
11	Effect of grain size distribution on the shear band thickness evolution in sand. Geotechnique, 2022, 72, 350-363.	2.2	27
12	Weak phases production and heat generation control fault friction during seismic slip. Nature Communications, 2020, 11, 350.	5.8	27
13	Numerical Analysis of Strain Localization in Rocks with Thermo-hydro-mechanical Couplings Using Cosserat Continuum. Rock Mechanics and Rock Engineering, 2018, 51, 3295-3311.	2.6	26
14	On the Stability of Deepâ€Seated Landslides. The Cases of Vaiont (Italy) and Shuping (Three Gorges Dam,) Tj ETQq0 0 0 rgBT /Overlock	1.0	23
15	Modelling fluid-microstructure interaction on elasto-visco-plastic digital rocks. Geomechanics for Energy and the Environment, 2017, 12, 1-13.	1.2	22
16	Boudinage as a material instability of elasto-visco-plastic rocks. Journal of Structural Geology, 2015, 78, 86-102.	1.0	20
17	Three-scale multiphysics finite element framework (FE3) modelling fault reactivation. Computer Methods in Applied Mechanics and Engineering, 2020, 365, 112988.	3.4	20
18	Conditions for the localisation of plastic deformation in temperature sensitive viscoplastic materials. Journal of Mechanics of Materials and Structures, 2016, 11, 113-136.	0.4	16

#	ARTICLE	IF	CITATIONS
19	Deep geothermal: The "Moon Landing"™ mission in the unconventional energy and minerals space. <i>Journal of Earth Science (Wuhan, China)</i> , 2015, 26, 2-10.	1.1	13
20	Continuous assessment of landslides by measuring their basal temperature. <i>Landslides</i> , 2021, 18, 3953-3961.	2.7	12
21	The Role of Temperature in Shear Instability and Bifurcation of Internally Pressurized Deep Boreholes. <i>Rock Mechanics and Rock Engineering</i> , 2017, 50, 3003-3017.	2.6	11
22	A novel wave-mechanics approach for fluid flow in unconventional resources. <i>The Leading Edge</i> , 2016, 35, 90-97.	0.4	10
23	A visco-plastic framework for interface processes in sedimentary reservoir rocks at HPHT conditions. <i>Geomechanics for Energy and the Environment</i> , 2020, 22, 100165.	1.2	9
24	Strain localization regularization and patterns formation in rate-dependent plastic materials with multiphysics coupling. <i>Journal of the Mechanics and Physics of Solids</i> , 2021, 152, 104422.	2.3	9
25	Multiscale, multiphysics geomechanics for geodynamics applied to buckling instabilities in the middle of the Australian craton. <i>Philosophical Magazine</i> , 2015, 95, 3055-3077.	0.7	8
26	Boudinage and folding as an energy instability in ductile deformation. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3996-4013.	1.4	8
27	Automatically adaptive stabilized finite elements and continuation analysis for compaction banding in geomaterials. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 6234-6252.	1.5	7
28	Permeability Hysteresis From Microchannels Opening During Dissolution/Reprecipitation Cycle. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088674.	1.5	6
29	Influence of dissolution on long-term frictional properties of carbonate fault gouge. <i>Geomechanics for Energy and the Environment</i> , 2021, 26, 100234.	1.2	5
30	Entropic Bounds for Multi-Scale and Multi-Physics Coupling in Earth Sciences. <i>Understanding Complex Systems</i> , 2014, , 323-335.	0.3	5
31	The dynamics of multiscale, multiphysics faults: Part I - The long-term behaviour of the lithosphere. <i>Tectonophysics</i> , 2018, 746, 648-658.	0.9	4
32	A heuristic model inversion for coupled thermo-hydro-mechanical modelling of triaxial experiments. <i>Computers and Geotechnics</i> , 2020, 117, 103278.	2.3	4
33	Predicting the yield strength of a 3D printed porous material from its internal geometry. <i>Additive Manufacturing</i> , 2021, 44, 102061.	1.7	4
34	Analysis of Dynamics in Multiphysics Modelling of Active Faults. <i>Mathematics</i> , 2016, 4, 57.	1.1	3
35	Influence of stress field anisotropy on drilling-induced tensile fracture. <i>Environmental Geotechnics</i> , 2020, 7, 373-379.	1.3	3
36	A note on the instability and pattern formation of shrinkage cracks in viscoplastic soils. <i>Geomechanics for Energy and the Environment</i> , 2021, 25, 100198.	1.2	3

#	ARTICLE	IF	CITATIONS
37	The interplay between phyllosilicates fabric and mechanical response of deep-seated landslides. The case of El Forn de Canillo landslide (Andorra). <i>Landslides</i> , 2021, 18, 145-160.	2.7	3
38	The influence of anisotropy on compaction bands: The case of coaxiality between stress and fabric anisotropy tensors. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2022, 46, 68-88.	1.7	3
39	Localisation of Deformation for Shearing of a Fault Gouge with Cosserat Microstructure and Different Couplings. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017, , 155-160.	0.0	2
40	The dynamics of multiscale, multiphysics faults: Part II - Episodic stick-slip can turn the jelly sandwich into a crÄme brÄe. <i>Tectonophysics</i> , 2018, 746, 659-668.	0.9	2
41	A blended transient/quasistatic Lagrangian framework for salt tectonics simulations with stabilized tetrahedral finite elements. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 3489-3524.	1.5	2
42	Influence of cementation on the yield surface of rocks numerically determined from digital microstructures. <i>International Journal of Plasticity</i> , 2022, 156, 103338.	4.1	2
43	Leveraging Supercritical CO2 to Rejuvenate Hydraulically Fractured Wells in Unconventional Reservoirs. , 2018, , .		1
44	Thermo-Hydro-Mechanics in Shear Fracturing in Geothermal Reservoirs. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017, , 327-333.	0.0	1
45	Episodic mineralising fluid injection through chemical shear zones. <i>ASEG Extended Abstracts</i> , 2018, 2018, 1-5.	0.1	1
46	Life Expectancy of Evaporating Capillary Bridges Predicted by Tertiary Creep Modeling. <i>Frontiers in Mechanical Engineering</i> , 2022, 8, .	0.8	1
47	Next Generation Resource Discovery linking Geophysical Sensing, Modelling and Interpretation. <i>ASEG Extended Abstracts</i> , 2016, 2016, 1-5.	0.1	0
48	The Effect of Rotational and Isotropic Hardening on the Onset of Compaction Bands. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017, , 147-153.	0.0	0
49	Next Generation Reservoir Engineering. <i>ASEG Extended Abstracts</i> , 2018, 2018, 1-5.	0.1	0
50	Modelling the Complexity of Continental Breakup and Basin Formation Including the Role of Magmatism. , 2015, , .		0
51	Geomechanical Instabilities In Diagenetically Altered Unconventional Reservoirs Enhance Fluid Pressure And Production.. , 2015, , .		0
52	REDBACK: An Open-Source Highly Scalable Geomechanical Modeling Simulator. , 2015, , .		0
53	An Inversion Framework for Numerical Modelling of Pore Collapse in Soft Porous Rocks. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017, , 319-325.	0.0	0
54	Framework for Multiscale Flow Simulation of Deformable Rocks. <i>Springer Series in Geomechanics and Geoengineering</i> , 2017, , 475-480.	0.0	0

#	ARTICLE	IF	CITATIONS
55	Bifurcation Criteria for Strain Localization in Multiphysical Systems. Springer Series in Geomechanics and Geoengineering, 2017, , 201-206.	0.0	0
56	Fault reactivation during fluid production, modelled as a multi-physics multi-scale instability. E3S Web of Conferences, 2020, 205, 03002.	0.2	0