

Mauro Cacace

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/527300/publications.pdf>

Version: 2024-02-01

72
papers

1,115
citations

331259

21
h-index

476904

29
g-index

109
all docs

109
docs citations

109
times ranked

840
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modeling as a tool for evaluating the renewability of geothermal resources: the case study of the Euganean Geothermal System (NE Italy). <i>Environmental Geochemistry and Health</i> , 2022, 44, 2135-2162.	1.8	9
2	Influences of hydraulic boundary conditions on the deep fluid flow in a 3D regional model (central Tj ETQq0 0 0 rgBTj/Overlock 10 Tf 50	1.3	2
3	Long-Term Lithospheric Strength and Upper-Plate Seismicity in the Southern Central Andes, 29°–39°S. <i>Geochemistry, Geophysics, Geosystems</i> , 2022, 23, .	1.0	10
4	How Alpine seismicity relates to lithospheric strength. <i>International Journal of Earth Sciences</i> , 2022, 111, 1201-1221.	0.9	3
5	Controls of the Lithospheric Thermal Field of an Ocean-Continent Subduction Zone: The Southern Central Andes. <i>Lithosphere</i> , 2022, 2022, .	0.6	3
6	Hydrogeologic and Thermal Effects of Glaciations on the Intracontinental Basins in Central and Northern Europe. <i>Frontiers in Water</i> , 2022, 4, .	1.0	2
7	Effects of transient processes for thermal simulations of the Central European Basin. <i>Geoscientific Model Development</i> , 2021, 14, 1699-1719.	1.3	2
8	Thermomechanics for Geological, Civil Engineering and Geodynamic Applications: Numerical Implementation and Application to the Bentheim Sandstone. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 5337-5354.	2.6	5
9	Hydraulic Diffusivity of a Partially Open Rough Fracture. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 5493-5515.	2.6	8
10	Lithospheric strength variations and seismotectonic segmentation below the Sea of Marmara. <i>Tectonophysics</i> , 2021, 815, 228999.	0.9	2
11	Modeling of fluid-induced seismicity during injection and after shut-in. <i>Computers and Geotechnics</i> , 2021, 140, 104489.	2.3	2
12	How biased are our models? – a case study of the alpine region. <i>Geoscientific Model Development</i> , 2021, 14, 7133-7153.	1.3	4
13	Projecting seismicity induced by complex alterations of underground stresses with applications to geothermal systems. <i>Scientific Reports</i> , 2021, 11, 23560.	1.6	12
14	Multiphysics Modeling of a Brittle-Ductile Lithosphere: 2. Semi-brittle, Semi-ductile Deformation and Damage Rheology. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018475.	1.4	13
15	Multiphysics Modeling of a Brittle-Ductile Lithosphere: 1. Explicit Visco-Elasto-Plastic Formulation and Its Numerical Implementation. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB018474.	1.4	17
16	The 3D thermal field across the Alpine orogen and its forelands and the relation to seismicity. <i>Global and Planetary Change</i> , 2020, 193, 103288.	1.6	14
17	Influence of Lithosphere Rheology on Seismicity in an Intracontinental Rift: The Case of the Rhine Graben. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	7
18	Unravelling the lithospheric-scale thermal field of the North Patagonian Massif plateau (Argentina) and its relations to the topographic evolution of the area. <i>International Journal of Earth Sciences</i> , 2020, 110, 2315.	0.9	0

#	ARTICLE	IF	CITATIONS
19	Fault Control on a Thermal Anomaly: Conceptual and Numerical Modeling of a Low-Temperature Geothermal System in the Southern Alps Foreland Basin (NE Italy). <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB017394.	1.4	7
20	Surface to Groundwater Interactions beneath the City of Berlin: Results from 3D Models. <i>Geofluids</i> , 2019, 2019, 1-22.	0.3	7
21	Influence of the Main Border Faults on the 3D Hydraulic Field of the Central Upper Rhine Graben. <i>Geofluids</i> , 2019, 2019, 1-21.	0.3	19
22	The Effects of Regional Fluid Flow on Deep Temperatures (Hesse, Germany). <i>Energies</i> , 2019, 12, 2081.	1.6	10
23	HT (Convection) Processes. <i>Terrestrial Environmental Sciences</i> , 2018, , 157-177.	0.5	0
24	Far field poroelastic response of geothermal reservoirs to hydraulic stimulation treatment: Theory and application at the Groÿ Schÿnebeck geothermal research facility. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 110, 316-327.	2.6	14
25	Evaluating Micro-Seismic Events Triggered by Reservoir Operations at the Geothermal Site of Groÿ Schÿnebeck (Germany). <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 3265-3279.	2.6	31
26	Thermal solar energy storage in Jurassic aquifers in Northeastern Germany: A simulation study. <i>Renewable Energy</i> , 2017, 104, 290-306.	4.3	18
27	Overcoming Spatial Scales in Geothermal Modelling for Urban Areas. <i>Energy Procedia</i> , 2017, 125, 98-105.	1.8	3
28	Processes Responsible for Localized Deformation within Porous Rocks: Insights from Laboratory Experiments and Numerical Modeling. , 2017, , .		2
29	Thermal convection of viscous fluids in a faulted system: 3D benchmark for numerical codes. <i>Energy Procedia</i> , 2017, 125, 310-317.	1.8	5
30	Modelling coupled fluid flow and heat transfer in fractured reservoirs: description of a 3D benchmark numerical case. <i>Energy Procedia</i> , 2017, 125, 612-621.	1.8	7
31	Geoenergy Modeling III. <i>SpringerBriefs in Energy</i> , 2017, , .	0.2	8
32	Backward modelling of the subsidence evolution of the Colorado Basin, offshore Argentina and its relation to the evolution of the conjugate Orange Basin, offshore SW Africa. <i>Tectonophysics</i> , 2017, 716, 168-181.	0.9	11
33	Flexible parallel implicit modelling of coupled thermal-hydraulic-mechanical processes in fractured rocks. <i>Solid Earth</i> , 2017, 8, 921-941.	1.2	66
34	The Kenya rift revisited: insights into lithospheric strength through data-driven 3-D gravity and thermal modelling. <i>Solid Earth</i> , 2017, 8, 45-81.	1.2	47
35	Case Study: Groÿ Schÿnebeck. <i>SpringerBriefs in Energy</i> , 2017, , 47-73.	0.2	0
36	Gas Hydrate Stability Zone of the Barents Sea and Kara Sea Region. <i>Energy Procedia</i> , 2016, 97, 302-309.	1.8	16

#	ARTICLE	IF	CITATIONS
37	The Geothermal Field Below the City of Berlin, Germany: Results from Structurally and Parametrically Improved 3D Models. <i>Energy Procedia</i> , 2016, 97, 334-341.	1.8	6
38	Permeability distribution in the Lahendong geothermal field: A blind fault captured by thermal-hydraulic simulation. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	18
39	The application of inverse modeling in characterizing hydraulic conductivity beneath the city of Berlin, Germany. <i>Environmental Earth Sciences</i> , 2016, 75, 1.	1.3	2
40	Coupled thermo-mechanical 3D subsidence analysis along the SW African passive continental margin. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	0.6	7
41	Why intracontinental basins subside longer: Feedback effects of lithospheric cooling and sedimentation on the flexural strength of the lithosphere. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3742-3761.	1.4	29
42	Thermo-poroelastic numerical modelling for enhanced geothermal system performance: Case study of the Groÿ Schÿnebeck reservoir. <i>Tectonophysics</i> , 2016, 684, 119-130.	0.9	29
43	Hydro-Mechanical Evolution of Transport Properties in Porous Media: Constraints for Numerical Simulations. <i>Transport in Porous Media</i> , 2015, 110, 409-428.	1.2	9
44	Sensitivity of a 3D Geothermal Model of Berlin with Respect to Upper Boundary Conditions. <i>Energy Procedia</i> , 2015, 76, 291-300.	1.8	8
45	Numerical Investigation of Thermoelastic Effects on Fault Slip Tendency during Injection and Production of Geothermal Fluids. <i>Energy Procedia</i> , 2015, 76, 311-320.	1.8	34
46	Evaluation of three exploitation concepts for a deep geothermal system in the North German Basin. <i>Computers and Geosciences</i> , 2015, 82, 120-129.	2.0	24
47	Reconstruction of the southwestern African continental margin by backward modeling. <i>Marine and Petroleum Geology</i> , 2015, 67, 544-555.	1.5	25
48	MeshIt—a software for three dimensional volumetric meshing of complex faulted reservoirs. <i>Environmental Earth Sciences</i> , 2015, 74, 5191-5209.	1.3	36
49	Models of heat transport in the Central European Basin System: Effective mechanisms at different scales. <i>Marine and Petroleum Geology</i> , 2014, 55, 315-331.	1.5	41
50	Influence of major fault zones on 3-D coupled fluid and heat transport for the Brandenburg region (NE German Basin). <i>Geothermal Energy Science</i> , 2014, 2, 1-20.	1.1	29
51	Deep 3D thermal modelling for the city of Berlin (Germany). <i>Environmental Earth Sciences</i> , 2013, 70, 3545-3566.	1.3	32
52	Controls on the deep thermal field: implications from 3-D numerical simulations for the geothermal research site Groÿ Schÿnebeck. <i>Environmental Earth Sciences</i> , 2013, 70, 3619-3642.	1.3	25
53	Impact of single inclined faults on the fluid flow and heat transport: results from 3-D finite element simulations. <i>Environmental Earth Sciences</i> , 2013, 70, 3603-3618.	1.3	33
54	Influence of fluid flow on the regional thermal field: results from 3D numerical modelling for the area of Brandenburg (North German Basin). <i>Environmental Earth Sciences</i> , 2013, 70, 3523-3544.	1.3	39

#	ARTICLE	IF	CITATIONS
55	3D coupled fluid and heat transport simulations of the Northeast German Basin and their sensitivity to the spatial discretization: different sensitivities for different mechanisms of heat transport. Environmental Earth Sciences, 2013, 70, 3643-3659.	1.3	23
56	Modelling the Surface Heat Flow Distribution in the Area of Brandenburg (Northern Germany). Energy Procedia, 2013, 40, 545-553.	1.8	6
57	Modelling of fractured carbonate reservoirs: outline of a novel technique via a case study from the Molasse Basin, southern Bavaria, Germany. Environmental Earth Sciences, 2013, 70, 3585-3602.	1.3	61
58	Quaternary channels within the Northeast German Basin and their relevance on double diffusive convective transport processes: Constraints from 3D thermohaline numerical simulations. Geochemistry, Geophysics, Geosystems, 2013, 14, 3156-3175.	1.0	8
59	Sensitivity of 3D thermal models to the choice of boundary conditions and thermal properties: a case study for the area of Brandenburg (NE German Basin). Environmental Earth Sciences, 2012, 67, 1695-1711.	1.3	37
60	Characterization of main heat transport processes in the Northeast German Basin: Constraints from 3-D numerical models. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	1.0	31
61	Geothermal Modelling of Sedimentary Basins - An Integrated Approach at Different Scales. , 2011, , .		0
62	Three dimensional modelling of fractured and faulted reservoirs: Framework and implementation. Chemie Der Erde, 2010, 70, 145-153.	0.8	22
63	Geothermal energy in sedimentary basins: What we can learn from regional numerical models. Chemie Der Erde, 2010, 70, 33-46.	0.8	40
64	Late Cretaceous–Early Tertiary tectonic evolution of the Central European Basin System (CEBS): Constraints from numerical modelling. Tectonophysics, 2009, 470, 105-128.	0.9	4
65	Strain localization due to structural in-homogeneities in the Central European Basin System. International Journal of Earth Sciences, 2008, 97, 899-913.	0.9	7
66	Strain and Temperature an Space and Time. , 2008, , 36-153.		3
67	Modelling of multi-lateral well geometries for Geothermal Applications. Advances in Geosciences, 0, 45, 209-215.	12.0	15
68	Regional hydraulic model of the Upper Rhine Graben. Advances in Geosciences, 0, 49, 197-206.	12.0	9
69	A three-dimensional lithospheric-scale thermal model of Germany. Advances in Geosciences, 0, 49, 225-234.	12.0	6
70	Boundary condition control on inter-aquifer flow in the subsurface of Berlin (Germany) – new insights from 3-D numerical modelling. Advances in Geosciences, 0, 49, 9-18.	12.0	3
71	Permeability of matrix-fracture systems under mechanical loading – constraints from laboratory experiments and 3-D numerical modelling. Advances in Geosciences, 0, 49, 95-104.	12.0	18
72	3-D Simulations of Groundwater Utilization in an Urban Catchment of Berlin, Germany. Advances in Geosciences, 0, 45, 177-184.	12.0	2