

Antonio P Rinaldi

List of Publications by Year in descending order

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Version: 2024-02-01

68
papers

2,852
citations

201385

27
h-index

189595

50
g-index

96
all docs

96
docs citations

96
times ranked

2308
citing authors

#	ARTICLE	IF	CITATIONS
1	The November 2017 <i>M_w</i> 5.5 Pohang earthquake: A possible case of induced seismicity in South Korea. <i>Science</i> , 2018, 360, 1003-1006.	6.0	325
2	Current challenges in monitoring, discrimination, and management of induced seismicity related to underground industrial activities: A European perspective. <i>Reviews of Geophysics</i> , 2017, 55, 310-340.	9.0	235
3	Modeling of fault reactivation and induced seismicity during hydraulic fracturing of shale-gas reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2013, 107, 31-44.	2.1	216
4	Fault activation and induced seismicity in geological carbon storage – Lessons learned from recent modeling studies. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2016, 8, 789-804.	3.7	150
5	Induced seismicity within geological carbon sequestration projects: Maximum earthquake magnitude and leakage potential from undetected faults. <i>International Journal of Greenhouse Gas Control</i> , 2012, 10, 434-442.	2.3	142
6	Geomechanical effects on CO ₂ leakage through fault zones during large-scale underground injection. <i>International Journal of Greenhouse Gas Control</i> , 2014, 20, 117-131.	2.3	133
7	Modeling of deep fracture zone opening and transient ground surface uplift at KB-502 CO ₂ injection well, In Salah, Algeria. <i>International Journal of Greenhouse Gas Control</i> , 2013, 12, 155-167.	2.3	132
8	Modeling of fault activation and seismicity by injection directly into a fault zone associated with hydraulic fracturing of shale-gas reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2015, 127, 377-386.	2.1	127
9	Modeling of unrest signals in heterogeneous hydrothermal systems. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	64
10	Hydrothermal instability and ground displacement at the Campi Flegrei caldera. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 178, 155-161.	0.7	63
11	Buoyancy Effects on Upward Brine Displacement Caused by CO ₂ Injection. <i>Transport in Porous Media</i> , 2011, 87, 525-540.	1.2	62
12	Effects of fault zone architecture on earthquake magnitude and gas leakage related to CO ₂ injection in a multi-layered sedimentary system. , 2014, 4, 99-120.		60
13	Fault reactivation during CO ₂ sequestration: Effects of well orientation on seismicity and leakage. , 2015, 5, 645-656.		60
14	Coupled THM Modeling of Hydroshearing Stimulation in Tight Fractured Volcanic Rock. <i>Transport in Porous Media</i> , 2015, 108, 131-150.	1.2	55
15	On the physics-based processes behind production-induced seismicity in natural gas fields. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3792-3812.	1.4	55
16	The Effect of a Mainshock on the Size Distribution of the Aftershocks. <i>Geophysical Research Letters</i> , 2018, 45, 13,277.	1.5	52
17	The importance of earthquake interactions for injection-induced seismicity: Retrospective modeling of the Basel Enhanced Geothermal System. <i>Geophysical Research Letters</i> , 2016, 43, 4992-4999.	1.5	51
18	Long-term thermal effects on injectivity evolution during CO ₂ storage. <i>International Journal of Greenhouse Gas Control</i> , 2017, 64, 314-322.	2.3	50

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19	Joint opening or hydroshearing? Analyzing a fracture zone stimulation at Fenton Hill. <i>Geothermics</i> , 2019, 77, 83-98.	1.5	48
20	Modeling of induced seismicity and ground vibrations associated with geologic CO ₂ storage, and assessing their effects on surface structures and human perception. <i>International Journal of Greenhouse Gas Control</i> , 2014, 24, 64-77.	2.3	47
21	Electrical conductivity, ground displacement, gravity changes, and gas flow at Solfatara crater (Campi Flegrei caldera, Italy): Results from numerical modeling. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 207, 93-105.	0.8	37
22	Thermal and capillary effects on the caprock mechanical stability at In Salah, Algeria. , 2015, 5, 449-461.		37
23	The influence of faulting style on the size-distribution of global earthquakes. <i>Earth and Planetary Science Letters</i> , 2019, 527, 115791.	1.8	36
24	Effects of atmospheric conditions on surface diffuse degassing. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	34
25	The effects of lateral property variations on fault-zone reactivation by fluid pressurization: Application to CO ₂ pressurization effects within major and undetected fault zones. <i>Journal of Structural Geology</i> , 2014, 62, 97-108.	1.0	34
26	Periodic behavior of soil CO ₂ emissions in diffuse degassing areas of the Azores archipelago: Application to seismovolcanic monitoring. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 7578-7597.	1.4	33
27	Inverse modeling of ground surface uplift and pressure with iTOUGH-PEST and TOUGH-FLAC: The case of CO ₂ injection at In Salah, Algeria. <i>Computers and Geosciences</i> , 2017, 108, 98-109.	2.0	33
28	Dynamic simulation of CO ₂ -injection-induced fault rupture with slip-rate dependent friction coefficient. <i>Geomechanics for Energy and the Environment</i> , 2016, 7, 47-65.	1.2	32
29	Fault sealing and caprock integrity for CO ₂ storage: an in situ injection experiment. <i>Solid Earth</i> , 2021, 12, 319-343.	1.2	32
30	Seismic and aseismic deformations and impact on reservoir permeability: The case of EGS stimulation at The Geysers, California, USA. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7863-7882.	1.4	29
31	Evaluating thermal losses and storage capacity in high-temperature aquifer thermal energy storage (HT-ATES) systems with well operating limits: insights from a study-case in the Greater Geneva Basin, Switzerland. <i>Geothermics</i> , 2020, 85, 101773.	1.5	28
32	Anatomy of a fumarolic system inferred from a multiphysics approach. <i>Scientific Reports</i> , 2018, 8, 7580.	1.6	27
33	Fault Stability Perturbation by Thermal Pressurization and Stress Transfer Around a Deep Geological Repository in a Clay Formation. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8506-8518.	1.4	23
34	Induced seismicity risk analysis of the hydraulic stimulation of a geothermal well on Geldinganes, Iceland. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 1573-1593.	1.5	23
35	TOUGH2-seed: A coupled fluid flow and mechanical-stochastic approach to model injection-induced seismicity. <i>Computers and Geosciences</i> , 2017, 108, 86-97.	2.0	21
36	Modeling earthquake effects on groundwater levels: evidences from the 2012 Emilia earthquake (Italy). <i>Geofluids</i> , 2016, 16, 452-463.	0.3	19

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37	Combined approach of poroelastic and earthquake nucleation applied to the reservoir-induced seismic activity in the Val d'Agri area, Italy. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 802-810.	3.7	17
38	Shale fault zone structure and stress dependent anisotropic permeability and seismic velocity properties (Opalinus Clay, Switzerland). <i>Journal of Structural Geology</i> , 2021, 144, 104273.	1.0	17
39	Multi-disciplinary characterizations of the BedrettoLab "a new underground geoscience research facility. <i>Solid Earth</i> , 2022, 13, 301-322.	1.2	17
40	Hydromechanical Modeling of Fault Reactivation in the St. Gallen Deep Geothermal Project (Switzerland): Poroelasticity or Hydraulic Connection?. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085201.	1.5	15
41	Geomechanical Modeling of Fault Responses and the Potential for Notable Seismic Events During Underground CO ₂ Injection. <i>Energy Procedia</i> , 2013, 37, 4774-4784.	1.8	14
42	Hydro-mechanical modeling of the first and second hydraulic stimulations in a fractured geothermal reservoir in Pohang, South Korea. <i>Geothermics</i> , 2021, 89, 101982.	1.5	14
43	Fault reactivation induced by tunneling activity in clay material: Hints from numerical modeling. <i>Tunnelling and Underground Space Technology</i> , 2020, 102, 103453.	3.0	14
44	Impact of injection rate ramp-up on nucleation and arrest of dynamic fault slip. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2022, 8, .	1.3	13
45	Accuracy of fully coupled and sequential approaches for modeling hydro- and geomechanical processes. <i>Computational Geosciences</i> , 2020, 24, 1707-1723.	1.2	12
46	Effects of in situ stress measurement uncertainties on assessment of predicted seismic activity and risk associated with a hypothetical industrial-scale geologic CO ₂ sequestration operation. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2016, 8, 873-885.	3.7	10
47	Simultaneous Dependence of the Earthquake Size Distribution on Faulting Style and Depth. <i>Geophysical Research Letters</i> , 2019, 46, 11044-11053.	1.5	10
48	Effects of layered crust on the coseismic slip inversion and related CFF variations: Hints from the 2012 Emilia Romagna earthquake. <i>Physics of the Earth and Planetary Interiors</i> , 2017, 273, 23-35.	0.7	9
49	Monitoring microseismicity of the Hengill Geothermal Field in Iceland. <i>Scientific Data</i> , 2022, 9, 220.	2.4	9
50	The Effect of Fault Architecture on Slip Behavior in Shale Revealed by Distributed Fiber Optic Strain Sensing. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	7
51	Potential influence of overpressurized gas on the induced seismicity in the St. Gallen deep geothermal project (Switzerland). <i>Solid Earth</i> , 2020, 11, 909-933.	1.2	6
52	Modeling Ground Surface Uplift During CO ₂ Sequestration: The Case of in Salah, Algeria. <i>Energy Procedia</i> , 2017, 114, 3247-3256.	1.8	5
53	Preface: Interdisciplinary contributions from the Division on Energy, Resources and the Environment at the EGU General Assembly 2019. <i>Advances in Geosciences</i> , 0, 49, 31-35.	12.0	5
54	Dynamic modeling of injection-induced fault reactivation and ground motion and impact on surface structures and human perception. <i>Energy Procedia</i> , 2014, 63, 3379-3389.	1.8	4

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55	Effects of the distribution and evolution of the coefficient of friction along a fault on the assessment of the seismic activity associated with a hypothetical industrial-scale geologic CO2 sequestration operation. <i>International Journal of Greenhouse Gas Control</i> , 2017, 66, 254-263.	2.3	4
56	Hydro-mechanical fault reactivation modeling based on elasto-plasticity with embedded weakness planes. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 877-885.	3.7	4
57	Preface: Special issue from the Division on Energy, Resources and the Environment at EGU2020: Sharing geoscience online. <i>Advances in Geosciences</i> , 0, 54, 1-5.	12.0	4
58	Numerical Geomechanics Studies of Geological Carbon Storage (GCS). , 2019, , 237-252.		2
59	Preface to the special issue of the Division Energy, Resources and the Environment at vEGU2021: Gather onlineâ€œâ€œâ€œâ€œâ€œâ€œ. <i>Advances in Geosciences</i> , 0, 56, 13-18.	12.0	2
60	CO2 Sequestration: Studying Caprock And Fault Sealing Integrity, The CS-D Experiment In Mont Terri. , 2018, , .		2
61	Spectral boundary integral method for simulating static and dynamic fields from a fault rupture in a poroelastodynamic solid. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2022, 8, 73.	1.3	2
62	Modeling Ground Deformations and Potential for Induced Micro-Seismicity at the In Salah CO 2 Storage Operation, Algeria. , 2013, , .		1
63	Fault Reactivation and Seismicity Associated with Shale-Gas Fracturing and Geologic Carbon Storageâ€œA Comparison from Recent Modeling Studies. , 2017, , .		1
64	Deep Fracture Zone Reactivation During CO2 Storage at In Salah (Algeria) â€œ A Review of Recent Modeling Studies. <i>Springer Series in Geomechanics and Geoengineering</i> , 2019, , 394-401.	0.0	1
65	Preface to the special issue â€œInduced seismicity: observations, monitoring, and risk management strategiesâ€œ. <i>Journal of Seismology</i> , 2020, 24, 917-919.	0.6	1
66	Fluid pressure monitoring during hydraulic testing in faulted Opalinus Clay using seismic velocity observations. <i>Geophysics</i> , 0, , 1-41.	1.4	1
67	Effects of Asperity Distribution on Fluid Flow and Induced Seismicity During Deep Geothermal Exploitation. <i>Energy Procedia</i> , 2016, 97, 470-477.	1.8	0
68	Seismicity Rate Change as a Tool to Investigate Delayed and Remote Triggering of the 2010â€œ2011 Canterbury Earthquake Sequence, New Zealand. <i>Bulletin of the Seismological Society of America</i> , 0, , .	1.1	0