

Linda Luquot

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,669
citations

172457

29
h-index

197818

49
g-index

53
all docs

53
docs citations

53
times ranked

2319
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental determination of porosity and permeability changes induced by injection of CO ₂ into carbonate rocks. <i>Chemical Geology</i> , 2009, 265, 148-159.	3.3	405
2	Changes in reactive surface area during limestone dissolution: An experimental and modelling study. <i>Chemical Geology</i> , 2009, 265, 160-170.	3.3	218
3	Experimental Study of Carbon Sequestration Reactions Controlled by the Percolation of CO ₂ -Rich Brine through Peridotites. <i>Environmental Science & Technology</i> , 2009, 43, 1226-1231.	10.0	197
4	X-ray microtomography characterization of porosity, permeability and reactive surface changes during dissolution. <i>Journal of Contaminant Hydrology</i> , 2011, 120-121, 45-55.	3.3	146
5	Experimental Characterization of Porosity Structure and Transport Property Changes in Limestone Undergoing Different Dissolution Regimes. <i>Transport in Porous Media</i> , 2014, 101, 507-532.	2.6	117
6	Dynamic Pore-Scale Dissolution by CO ₂ -Saturated Brine in Carbonates: Impact of Homogeneous Versus Fractured Versus Vuggy Pore Structure. <i>Water Resources Research</i> , 2020, 56, e2019WR026112.	4.2	114
7	CO ₂ percolation experiment through chlorite/zeolite-rich sandstone (Pretty Hill Formation – Otway) Tj ETQq1 1 0.784314 rBT /Over	3.3	97
8	Hydro-dynamically controlled alteration of fractured Portland cements flowed by CO ₂ -rich brine. <i>International Journal of Greenhouse Gas Control</i> , 2013, 16, 167-179.	4.6	83
9	A versatile indirect detector design for hard X-ray microimaging. <i>Journal of Instrumentation</i> , 2012, 7, P09016-P09016.	1.2	80
10	Microscopic Determination of Remaining Oil Distribution in Sandstones With Different Permeability Scales Using Computed Tomography Scanning. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2019, 141, .	2.3	79
11	Changes in seal capacity of fractured claystone caprocks induced by dissolved and gaseous CO ₂ seepage. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	72
12	Influence of the flow rate on dissolution and precipitation features during percolation of CO ₂ -rich sulfate solutions through fractured limestone samples. <i>Chemical Geology</i> , 2015, 414, 95-108.	3.3	71
13	Characterization of the Mechanisms Controlling the Permeability Changes of Fractured Cements Flowed Through by CO ₂ -Rich Brine. <i>Environmental Science & Technology</i> , 2013, 47, 10332-10338.	10.0	66
14	Interaction between a fractured marl caprock and CO ₂ -rich sulfate solution under supercritical CO ₂ conditions. <i>International Journal of Greenhouse Gas Control</i> , 2016, 48, 105-119.	4.6	56
15	Formation damage evaluation of a sandstone reservoir via pore-scale X-ray computed tomography analysis. <i>Journal of Petroleum Science and Engineering</i> , 2019, 183, 106356.	4.2	55
16	Changes in porosity, permeability, water retention curve and reactive surface area during carbonate rock dissolution. <i>Chemical Geology</i> , 2015, 403, 86-98.	3.3	52
17	Incipient hydration of mantle lithosphere at ridges: A reactive-percolation experiment. <i>Earth and Planetary Science Letters</i> , 2013, 371-372, 92-102.	4.4	50
18	Permeability impairment of a limestone reservoir triggered by heterogeneous dissolution and particles migration during CO ₂ -rich injection. <i>Geophysical Research Letters</i> , 2013, 40, 4614-4619.	4.0	50

#	ARTICLE	IF	CITATIONS
19	Heletz experimental site overview, characterization and data analysis for CO ₂ injection and geological storage. <i>International Journal of Greenhouse Gas Control</i> , 2016, 48, 3-23.	4.6	47
20	Interaction between CO ₂ -rich sulfate solutions and carbonate reservoir rocks from atmospheric to supercritical CO ₂ conditions: Experiments and modeling. <i>Chemical Geology</i> , 2014, 383, 107-122.	3.3	45
21	Time-lapse cross-hole electrical resistivity tomography (CHERT) for monitoring seawater intrusion dynamics in a Mediterranean aquifer. <i>Hydrology and Earth System Sciences</i> , 2020, 24, 2121-2139.	4.9	45
22	CO ₂ geological storage in olivine rich basaltic aquifers: New insights from reactive-percolation experiments. <i>Applied Geochemistry</i> , 2015, 52, 174-190.	3.0	39
23	Diversity and geochemical structuring of bacterial communities along a salinity gradient in a carbonate aquifer subject to seawater intrusion. <i>FEMS Microbiology Ecology</i> , 2014, 90, 922-934.	2.7	38
24	Characterization of flow parameters and evidence of pore clogging during limestone dissolution experiments. <i>Water Resources Research</i> , 2014, 50, 6305-6321.	4.2	33
25	CO ₂ -rich brine percolation experiments through Heletz reservoir rock samples (Israel): Role of the flow rate and brine composition. <i>International Journal of Greenhouse Gas Control</i> , 2016, 48, 44-58.	4.6	33
26	Flow Simulation of Artificially Induced Microfractures Using Digital Rock and Lattice Boltzmann Methods. <i>Energies</i> , 2018, 11, 2145.	3.1	33
27	Geochemical investigations of saltwater intrusion into the coastal carbonate aquifer of Mallorca, Spain. <i>Applied Geochemistry</i> , 2013, 39, 1-10.	3.0	32
28	Electrical and flow properties of highly heterogeneous carbonate rocks. <i>AAPG Bulletin</i> , 2014, 98, 49-66.	1.5	32
29	Pore system changes during experimental CO ₂ injection into detritic rocks: Studies of potential storage rocks from some sedimentary basins of Spain. <i>International Journal of Greenhouse Gas Control</i> , 2013, 17, 411-422.	4.6	31
30	Multi-scale X-ray tomography analysis of carbonate porosity. <i>Geological Society Special Publication</i> , 2015, 406, 61-79.	1.3	29
31	The role of mineral heterogeneity on the hydrogeochemical response of two fractured reservoir rocks in contact with dissolved CO ₂ . <i>Applied Geochemistry</i> , 2017, 84, 202-217.	3.0	26
32	Experimental and modeling study of the interaction between a crushed marl caprock and CO ₂ -rich solutions under different pressure and temperature conditions. <i>Chemical Geology</i> , 2017, 448, 26-42.	3.3	24
33	Simulation of chemical reaction localization using a multi-porosity reactive transport approach. <i>International Journal of Greenhouse Gas Control</i> , 2016, 48, 59-68.	4.6	19
34	A multidisciplinary approach to characterizing coastal alluvial aquifers to improve understanding of seawater intrusion and submarine groundwater discharge. <i>Journal of Hydrology</i> , 2022, 607, 127510.	5.4	19
35	2D reactive transport modeling of the interaction between a marl and a CO ₂ -rich sulfate solution under supercritical CO ₂ conditions. <i>International Journal of Greenhouse Gas Control</i> , 2016, 54, 145-159.	4.6	17
36	Calculating structural and geometrical parameters by laboratory measurements and X-ray microtomography: a comparative study applied to a limestone sample before and after a dissolution experiment. <i>Solid Earth</i> , 2016, 7, 441-456.	2.8	16

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37	Core-scale electrical resistivity tomography (ERT) monitoring of CO ₂ brine mixture in Fontainebleau sandstone. <i>Journal of Applied Geophysics</i> , 2016, 130, 23-36.	2.1	14
38	Time-lapse downhole electrical resistivity monitoring of subsurface CO ₂ storage at the Maguelone shallow experimental site (Languedoc, France). <i>International Journal of Greenhouse Gas Control</i> , 2016, 48, 142-154.	4.6	14
39	Laboratory-Scale Interaction between CO ₂ -Rich Brine and Reservoir Rocks (Limestone and Sandstone). <i>Procedia Earth and Planetary Science</i> , 2013, 7, 109-112.	0.6	12
40	Qualitative and Quantitative Changes of Carbonate Rocks Exposed to SC CO ₂ (Basque-Cantabrian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.5	10
41	Modeling of microbial kinetics and mass transfer in bioreactors simulating the natural attenuation of arsenic and iron in acid mine drainage. <i>Journal of Hazardous Materials</i> , 2021, 405, 124133.	12.4	9
42	Atomic modelling of crystal/complex fluid/crystal contacts Part II. Simulating AFM tests via the GenMol code for investigating the impact of CO ₂ storage on kaolinite/brine/kaolinite adhesion. <i>Journal of Crystal Growth</i> , 2010, 312, 3308-3315.	1.5	8
43	Efficiency of magnesium hydroxide as engineering seal in the geological sequestration of CO ₂ . <i>International Journal of Greenhouse Gas Control</i> , 2016, 48, 171-185.	4.6	8
44	Importance of Microstructure in Carbonate Rocks: Laboratory and 3D-Imaging Petrophysical Characterization. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3784.	2.5	7
45	Rheological characterization of olivine slurries, sheared under CO ₂ pressure. <i>Environmental Progress and Sustainable Energy</i> , 2014, 33, 572-580.	2.3	5
46	Identification and quantification of chemical reactions in a coastal aquifer to assess submarine groundwater discharge composition. <i>Science of the Total Environment</i> , 2022, 838, 155978.	8.0	5
47	Interpreting Self-Potential Signal during Reactive Transport: Application to Calcite Dissolution and Precipitation. <i>Water (Switzerland)</i> , 2022, 14, 1632.	2.7	4
48	Changes in Hydrodynamic, Structural and Geochemical Properties in Carbonate Rock Samples Due to Reactive Transport. <i>Procedia Earth and Planetary Science</i> , 2017, 17, 885-888.	0.6	2
49	Reactivity of a Marl Caprock in Contact with Acid Solutions under Different pCO ₂ Conditions (Atmospheric, 10 and 37 Bar). <i>Procedia Earth and Planetary Science</i> , 2017, 17, 528-531.	0.6	1
50	Laboratory Experiments. <i>Theory and Applications of Transport in Porous Media</i> , 2017, , 249-307.	0.4	0