

Alain Bonneville

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7912076/alain-bonneville-publications-by-year.pdf>

Version: 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

79
papers

1,569
citations

25
h-index

36
g-index

81
ext. papers

1,734
ext. citations

3.6
avg, IF

4.2
L-index

#	Paper	IF	Citations
79	Sensitivity of geophysical techniques for monitoring secondary CO ₂ storage plumes. <i>International Journal of Greenhouse Gas Control</i> , 2022 , 114, 103585	4.2	1
78	Monitoring Carbon Storage Sites With Time-Lapse Gravity Surveys. <i>Geophysical Monograph Series</i> , 2022 , 211-232	1.1	
77	Evaluation of a Greener Fracturing Fluid for Geothermal Energy Recovery: An Experimental and Simulation Study. <i>Geothermics</i> , 2021 , 97, 102266	4.3	0
76	Time-lapse borehole gravity imaging of CO ₂ injection and withdrawal in a closed carbonate reef. <i>Geophysics</i> , 2021 , 86, G113-G132	3.1	3
75	Time-lapse gravity monitoring of CO ₂ migration based on numerical modeling of a faulted storage complex. <i>International Journal of Greenhouse Gas Control</i> , 2020 , 95, 102956	4.2	11
74	Insights into a Greener Stimuli-Responsive Fracturing Fluid for Geothermal Energy Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 19660-19668	8.3	5
73	Borehole muography of subsurface reservoirs. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 377,	3	6
72	Experimental study of drying effects during supercritical CO ₂ displacement in a pore network. <i>Microfluidics and Nanofluidics</i> , 2018 , 22, 1	2.8	3
71	Muon Borehole Detector Design for Use in 4-D Density Overburden Monitoring. <i>IEEE Transactions on Nuclear Science</i> , 2018 , 65, 2724-2731	1.7	5
70	A novel muon detector for borehole density tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017 , 851, 108-117	1.2	9
69	Novel highly dispersible, thermally stable core/shell proppants for geothermal applications. <i>Geothermics</i> , 2017 , 70, 98-109	4.3	6
68	3D Cosmic Ray Muon Tomography from an Underground Tunnel. <i>Pure and Applied Geophysics</i> , 2017 , 174, 2133-2141	2.2	29
67	An overview of the monitoring program design for the FutureGen 2.0 CO ₂ storage site. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 51, 193-206	4.2	12
66	Thermal impact of CO ₂ injection on geomechanical response at the FutureGen 2.0 Site: A three-dimensional thermo-geomechanical approach. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 54, 29-49	4.2	6
65	Characterization and design of the FutureGen 2.0 carbon storage site. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 53, 1-10	4.2	10
64	Geophysical Monitoring of Ground Surface Deformation Associated with a Confined Aquifer Storage and Recovery Operation. <i>Water Resources Management</i> , 2015 , 29, 4667-4682	3.7	6
63	Environmentally friendly, rheoreversible, hydraulic-fracturing fluids for enhanced geothermal systems. <i>Geothermics</i> , 2015 , 58, 22-31	4.3	19

62	Wellbore cement fracture evolution at the cement-Basalt caprock interface during geologic carbon sequestration. <i>Applied Geochemistry</i> , 2014 , 47, 1-16	3.5	43
61	Geomechanical Evaluation of Thermal Impact of Injected CO2 Temperature on a Geological Reservoir: Application to the FutureGen 2.0 Site. <i>Energy Procedia</i> , 2014 , 63, 3298-3304	2.3	7
60	Application of three-component VSP technology at seismically difficult sites: An example from the FutureGen 2.0 site, Morgan County, Illinois, USA. <i>Energy Procedia</i> , 2014 , 63, 5051-5062	2.3	2
59	Local Sensitivity of Predicted CO2 Injectivity and Plume Extent to Model Inputs for the FutureGen 2.0 site. <i>Energy Procedia</i> , 2014 , 63, 3805-3814	2.3	4
58	Overview of the CO2 Geological Storage Site for the FutureGen Project in Morgan County Illinois, USA. <i>Energy Procedia</i> , 2014 , 63, 6361-6367	2.3	7
57	FutureGen 2.0 Monitoring Program: An Overview of the Monitoring Approach and Technologies Selected for Implementation. <i>Energy Procedia</i> , 2014 , 63, 4062-4070	2.3	2
56	Geophysical Monitoring Methods Evaluation for the FutureGen 2.0 Project. <i>Energy Procedia</i> , 2014 , 63, 4394-4403	2.3	7
55	Development of a coupled thermo-hydro-mechanical model in discontinuous media for carbon sequestration. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013 , 62, 138-147	6	18
54	Evaluating the Suitability for CO2 Storage at the FutureGen 2.0 Site, Morgan County, Illinois, USA. <i>Energy Procedia</i> , 2013 , 37, 6125-6132	2.3	19
53	Implementations of a Flexible Framework for Managing Geologic Sequestration Modeling Projects. <i>Energy Procedia</i> , 2013 , 37, 3971-3979	2.3	
52	Experimental study of crossover from capillary to viscous fingering for supercritical CO2-water displacement in a homogeneous pore network. <i>Environmental Science & Technology</i> , 2013 , 47, 212-8 ^{10.3}		97
51	A fluid pressure and deformation analysis for geological sequestration of carbon dioxide. <i>Computers and Geosciences</i> , 2012 , 46, 31-37	4.5	18
50	Geologic Sequestration Software Suite (GS3): A collaborative approach to the management of geological GHG storage projects. <i>Energy Procedia</i> , 2011 , 4, 3825-3832	2.3	1
49	Contrasted styles of rifting in the eastern Gulf of Aden: A combined wide-angle, multichannel seismic, and heat flow survey. <i>Geochemistry, Geophysics, Geosystems</i> , 2010 , 11, n/a-n/a	3.6	67
48	Exploring Structural Controls on Sumatran Earthquakes. <i>Eos</i> , 2010 , 91, 405	1.5	5
47	Heat-flow and hydrothermal circulation at the ocean-continent transition of the eastern gulf of Aden. <i>Earth and Planetary Science Letters</i> , 2010 , 295, 554-570	5.3	28
46	Post-rift volcanism and high heat-flow at the ocean-continent transition of the eastern Gulf of Aden. <i>Terra Nova</i> , 2009 , 21, 285-292	3	42
45	Hydrothermal convection in and around mineralized fault zones: insights from two- and three-dimensional numerical modeling applied to the Ashanti belt, Ghana. <i>Geofluids</i> , 2009 , 9, 116-137	1.5	27

44	Noble gases as tools for subsurface monitoring of CO ₂ leakage. <i>Energy Procedia</i> , 2009 , 1, 2185-2192	2.3	15
43	METSTOR: A GIS to look for potential CO ₂ storage zones in France. <i>Energy Procedia</i> , 2009 , 1, 2809-2816	2.3	9
42	Persistent thermal activity at the Eastern Gulf of Aden after continental break-up. <i>Nature Geoscience</i> , 2008 , 1, 854-858	18.3	54
41	Surface heat flow and the mantle contribution on the margins of Australia. <i>Geochemistry, Geophysics, Geosystems</i> , 2008 , 9, n/a-n/a	3.6	13
40	No thinning of the lithosphere beneath northern part of the Cook-Austral volcanic chains. <i>Journal of Geophysical Research</i> , 2008 , 113,		7
39	The thermal regime of South African continental margins. <i>Earth and Planetary Science Letters</i> , 2008 , 267, 256-265	5.3	15
38	Comparison of several BHT correction methods: a case study on an Australian data set. <i>Geophysical Journal International</i> , 2007 , 170, 913-922	2.6	38
37	Geological and thermal conditions before the major Palaeoproterozoic gold-mineralization event at Ashanti, Ghana, as inferred from improved thermal modelling. <i>Precambrian Research</i> , 2007 , 154, 71-87	3.9	10
36	Detection and phylogenetic identification of labeled prokaryotic cells on mineral surfaces using Scanning X-ray Microscopy. <i>Chemical Geology</i> , 2007 , 240, 182-192	4.2	9
35	Offshore evidence for a huge landslide of the northern flank of Tahiti-Nui (French Polynesia). <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	33
34	Heat flow variations on a slowly accreting ridge: Constraints on the hydrothermal and conductive cooling for the Lucky Strike segment (Mid-Atlantic Ridge, 37°N). <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	14
33	Temporal evolution and geochemical variability of the South Pacific superplume activity. <i>Earth and Planetary Science Letters</i> , 2006 , 244, 251-269	5.3	53
32	Using neural networks to predict thermal conductivity from geophysical well logs. <i>Geophysical Journal International</i> , 2006 , 166, 115-125	2.6	39
31	MiFil: A method to characterize seafloor swells with application to the south central Pacific. <i>Geochemistry, Geophysics, Geosystems</i> , 2005 , 6, n/a-n/a	3.6	27
30	Extent of the South Pacific Superswell. <i>Journal of Geophysical Research</i> , 2005 , 110,		34
29	Ages of seamounts, islands, and plateaus on the Pacific plate 2005 ,		40
28	Pre-mineralization thermal evolution of the Palaeoproterozoic gold-rich Ashanti belt, Ghana. <i>Geological Society Special Publication</i> , 2005 , 248, 103-118	1.7	1
27	The Tarava Seamounts: a newly characterized hotspot chain on the South Pacific Superswell. <i>Earth and Planetary Science Letters</i> , 2003 , 207, 117-130	5.3	18

26	Arago Seamount: The missing hotspot found in the Austral Islands. <i>Geology</i> , 2002 , 30, 1023	5	47
25	How many Pacific hotspots are fed by deep-mantle plumes?. <i>Geology</i> , 2001 , 29, 695	5	77
24	A giant landslide on the southern flank of Tahiti Island, French Polynesia. <i>Geophysical Research Letters</i> , 2001 , 28, 2253-2256	4.9	41
23	A fuzzy-possibilistic scheme of study for objects with indeterminate boundaries: application to French Polynesian reefs. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2000 , 38, 257-270	8.1	31
22	A shallow, chemical origin for the Marquesas Swell. <i>Geochemistry, Geophysics, Geosystems</i> , 2000 , 1, n/a-n/a	6	43
21	Size and depth of ancient magma reservoirs under atolls and islands of French Polynesia using gravity data. <i>Journal of Geophysical Research</i> , 2000 , 105, 8173-8191		11
20	THERMIC: a 2-D finite-element tool to solve conductive and advective heat transfer problems in Earth Sciences. <i>Computers and Geosciences</i> , 1999 , 25, 1137-1148	4.5	12
19	Crucial measurement issues discussed at Geodynamics Meeting. <i>Eos</i> , 1998 , 79, 633-633	1.5	
18	The seafloor swells and Superswell in French Polynesia. <i>Journal of Geophysical Research</i> , 1998 , 103, 27123-27134		24
17	Heat flow over Reunion hot spot track: Additional evidence for thermal rejuvenation of oceanic lithosphere. <i>Journal of Geophysical Research</i> , 1997 , 102, 22731-22747		26
16	Modal depths from shipboard bathymetry: There is a south pacific superswell. <i>Geophysical Research Letters</i> , 1996 , 23, 3397-3400	4.9	15
15	Mapping the seafloor from space. <i>Endeavour</i> , 1996 , 20, 157-161	0.5	1
14	Reply to the Comments made by Archambault and Tanguy on Thermal survey of Mount Etna Volcano from space. <i>Geophysical Research Letters</i> , 1993 , 20, 1001-1001	4.9	
13	Thermal Modelling of Fluid Flow Effects In Thin-Dipping Aquifers. <i>Geophysical Journal International</i> , 1993 , 112, 276-289	2.6	12
12	Shear strength of the Great Pacific Fracture Zones. <i>Geophysical Research Letters</i> , 1992 , 19, 2023-2026	4.9	10
11	Flow duration of a dike constrained by palaeomagnetic data. <i>Geophysical Journal International</i> , 1991 , 106, 621-634	2.6	6
10	Numerical modelling of caldera dynamical behaviour. <i>Geophysical Journal International</i> , 1991 , 105, 365-378		23
9	Complete gravity study of Piton de la Fournaise volcano, Reunion Island. <i>Journal of Volcanology and Geothermal Research</i> , 1989 , 36, 37-52	2.8	47

8	The December 4, 1983 to February 18, 1984 eruption of Piton de la Fournaise (La Reunion, Indian Ocean): Description and interpretation. <i>Journal of Volcanology and Geothermal Research</i> , 1989 , 36, 87-112 ^{2,8}	35
7	The beginning of the 1985-1987 eruptive cycle at Piton de la Fournaise (La Reunion); new insights in the magmatic and volcano-tectonic systems. <i>Journal of Volcanology and Geothermal Research</i> , 1989 , 36, 209-232	2.8 41
6	Evidence from geoid data of a hotspot origin for the southern Mascarene Plateau and Mascarene Islands (Indian Ocean). <i>Journal of Geophysical Research</i> , 1988 , 93, 4199-4212	51
5	A thermal forerunner of the 28th March 1983 Mt. Etna eruption from satellite thermal infrared data. <i>Journal of Geodynamics</i> , 1987 , 7, 1-31	2.2 22
4	Detailed gravity study of the offshore structure of Piton de la Fournaise volcano, Reunion Island. <i>Bulletin of Volcanology</i> , 1987 , 49, 713-722	2.4 14
3	Satellite thermal infrared observations of Mt. Etna after the 17th March 1981 eruption. <i>Journal of Volcanology and Geothermal Research</i> , 1985 , 24, 293-313	2.8 25
2	The Newberry Deep Drilling Project (NDDP) workshop. <i>Scientific Drilling</i> , 24, 79-86	1
1	A Hydro-Mechanical Model and Analytical Solutions for Geomechanical Modeling of Carbon Dioxide Geological Sequestration	47-53