Alain Bonneville

List of Publications by Year in descending order

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218381 288905 1,926 79 26 40 citations h-index g-index papers 81 81 81 1945 docs citations times ranked citing authors all docs

#	Article	IF	Citations
1	Experimental Study of Crossover from Capillary to Viscous Fingering for Supercritical CO ₂ –Water Displacement in a Homogeneous Pore Network. Environmental Science & Technology, 2013, 47, 212-218.	4.6	133
2	How many Pacific hotspots are fed by deep-mantle plumes?. Geology, 2001, 29, 695.	2.0	103
3	Ages of seamounts, islands, and plateaus on the Pacific plate. , 2005, , .		75
4	Contrasted styles of rifting in the eastern Gulf of Aden: A combined wideâ€angle, multichannel seismic, and heat flow survey. Geochemistry, Geophysics, Geosystems, 2010, 11, .	1.0	75
5	Temporal evolution and geochemical variability of the South Pacific superplume activity. Earth and Planetary Science Letters, 2006, 244, 251-269.	1.8	58
6	Persistent thermal activity at the Eastern Gulf of Aden after continental break-up. Nature Geoscience, 2008, 1, 854-858.	5.4	57
7	Arago Seamount: The missing hotspot found in the Austral Islands. Geology, 2002, 30, 1023.	2.0	55
8	A shallow, chemical origin for the Marquesas Swell. Geochemistry, Geophysics, Geosystems, 2000, 1, n/a-n/a.	1.0	54
9	Evidence from geoid data of a hotspot origin for the southern Mascarene Plateau and Mascarene Islands (Indian Ocean). Journal of Geophysical Research, 1988, 93, 4199-4212.	3.3	53
10	Complete gravity study of Piton de la Fournaise volcano, Reunion Island. Journal of Volcanology and Geothermal Research, 1989, 36, 37-52.	0.8	51
11	Extent of the South Pacific Superswell. Journal of Geophysical Research, 2005, 110, .	3.3	50
12	Wellbore cement fracture evolution at the cement–basalt caprock interface during geologic carbon sequestration. Applied Geochemistry, 2014, 47, 1-16.	1.4	50
13	Postâ€rift volcanism and high heatâ€flow at the oceanâ€continent transition of the eastern Gulf of Aden. Terra Nova, 2009, 21, 285-292.	0.9	47
14	Using neural networks to predict thermal conductivity from geophysical well logs. Geophysical Journal International, 2006, 166, 115-125.	1.0	46
15	A giant landslide on the southern flank of Tahiti Island, French Polynesia. Geophysical Research Letters, 2001, 28, 2253-2256.	1.5	45
16	The beginning of the 1985–1987 eruptive cycle at Piton de la Fournaise (La Reunion); new insights in the magmatic and volcano-tectonic systems. Journal of Volcanology and Geothermal Research, 1989, 36, 209-232.	0.8	44
17	Offshore evidence for a huge landslide of the northern flank of Tahiti-Nui (French Polynesia). Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	44
18	Comparison of several BHT correction methods: a case study on an Australian data set. Geophysical Journal International, 2007, 170, 913-922.	1.0	44

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19	3D Cosmic Ray Muon Tomography from an Underground Tunnel. Pure and Applied Geophysics, 2017, 174, 2133-2141.	0.8	41
20	The December 4, 1983 to February 18, 1984 eruption of Piton de la Fournaise (La Reunion, Indian Ocean): Description and interpretation. Journal of Volcanology and Geothermal Research, 1989, 36, 87-112.	0.8	36
21	A fuzzy-possibilistic scheme of study for objects with indeterminate boundaries: application to French Polynesian reefscapes. IEEE Transactions on Geoscience and Remote Sensing, 2000, 38, 257-270.	2.7	36
22	Hydrothermal convection in and around mineralized fault zones: insights from two―and threeâ€dimensional numerical modeling applied to the Ashanti belt, Ghana. Geofluids, 2009, 9, 116-137.	0.3	34
23	Heat flow over Reunion hot spot track: Additional evidence for thermal rejuvenation of oceanic lithosphere. Journal of Geophysical Research, 1997, 102, 22731-22747.	3.3	33
24	MiFil: A method to characterize seafloor swells with application to the south central Pacific. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	1.0	33
25	Heat-flow and hydrothermal circulation at the ocean–continent transition of the eastern gulf of Aden. Earth and Planetary Science Letters, 2010, 295, 554-570.	1.8	31
26	The seafloor swells and Superswell in French Polynesia. Journal of Geophysical Research, 1998, 103, 27123-27133.	3.3	29
27	Satellite thermal infrared observations of Mt. Etna after the 17th March 1981 eruption. Journal of Volcanology and Geothermal Research, 1985, 24, 293-313.	0.8	28
28	Environmentally friendly, rheoreversible, hydraulic-fracturing fluids for enhanced geothermal systems. Geothermics, 2015, 58, 22-31.	1.5	26
29	Numerical modelling of caldera dynamical behaviour. Geophysical Journal International, 1991, 105, 365-379.	1.0	25
30	A thermal forerunner of the 28th March 1983 Mt. Etna eruption from satellite thermal infrared data. Journal of Geodynamics, 1987, 7, 1-31.	0.7	24
31	Evaluating the Suitability for CO2 Storage at the FutureGen 2.0 Site, Morgan County, Illinois, USA. Energy Procedia, 2013, 37, 6125-6132.	1.8	24
32	Development of a coupled thermo-hydro-mechanical model in discontinuous media for carbon sequestration. International Journal of Rock Mechanics and Minings Sciences, 2013, 62, 138-147.	2.6	22
33	Modal depths from shipboard bathymetry: There is a south pacific superswell. Geophysical Research Letters, 1996, 23, 3397-3400.	1.5	21
34	The Tarava Seamounts: a newly characterized hotspot chain on the South Pacific Superswell. Earth and Planetary Science Letters, 2003, 207, 117-130.	1.8	21
35	The thermal regime of South African continental margins. Earth and Planetary Science Letters, 2008, 267, 256-265.	1.8	21
36	A fluid pressure and deformation analysis for geological sequestration of carbon dioxide. Computers and Geosciences, 2012, 46, 31-37.	2.0	19

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37	Time-lapse gravity monitoring of CO2 migration based on numerical modeling of a faulted storage complex. International Journal of Greenhouse Gas Control, 2020, 95, 102956.	2.3	18
38	An overview of the monitoring program design for the FutureGen 2.0 CO2 storage site. International Journal of Greenhouse Gas Control, 2016, 51, 193-206.	2.3	17
39	Surface heat flow and the mantle contribution on the margins of Australia. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	16
40	Noble gases as tools for subsurface monitoring of CO2 leakage. Energy Procedia, 2009, 1, 2185-2192.	1.8	16
41	Sensitivity of geophysical techniques for monitoring secondary CO2 storage plumes. International Journal of Greenhouse Gas Control, 2022, 114, 103585.	2.3	16
42	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). Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	15
43	Detailed gravity study of the offshore structure of Piton de la Fournaise volcano, Reunion Island. Bulletin of Volcanology, 1987, 49, 713-722.	1.1	14
44	Thermal Modelling of Fluid Flow Effects In Thin-Dipping Aquifers. Geophysical Journal International, 1993, 112, 276-289.	1.0	14
45	Size and depth of ancient magma reservoirs under atolls and islands of French Polynesia using gravity data. Journal of Geophysical Research, 2000, 105, 8173-8191.	3.3	14
46	THERMIC: a 2-D finite-element tool to solve conductive and advective heat transfer problems in Earth Sciences. Computers and Geosciences, 1999, 25, 1137-1148.	2.0	13
47	Characterization and design of the FutureGen 2.0 carbon storage site. International Journal of Greenhouse Gas Control, 2016, 53, 1-10.	2.3	13
48	Shear strength of the Great Pacific Fracture Zones. Geophysical Research Letters, 1992, 19, 2023-2026.	1.5	12
49	A novel muon detector for borehole density tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 851, 108-117.	0.7	11
50	Geological and thermal conditions before the major Palaeoproterozoic gold-mineralization event at Ashanti, Ghana, as inferred from improved thermal modelling. Precambrian Research, 2007, 154, 71-87.	1.2	10
51	Detection and phylogenetic identification of labeled prokaryotic cells on mineral surfaces using Scanning X-ray Microscopy. Chemical Geology, 2007, 240, 182-192.	1.4	9
52	METSTOR: A GIS to look for potential CO2 storage zones in France. Energy Procedia, 2009, 1, 2809-2816.	1.8	9
53	Geophysical Monitoring of Ground Surface Deformation Associated with a Confined Aquifer Storage and Recovery Operation. Water Resources Management, 2015, 29, 4667-4682.	1.9	9
54	No thinning of the lithosphere beneath northern part of the Cookâ€Austral volcanic chains. Journal of Geophysical Research, 2008, 113, .	3.3	8

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55	Exploring Structural Controls on Sumatran Earthquakes. Eos, 2010, 91, 405-406.	0.1	8
56	Overview of the CO2 Geological Storage Site for the FutureGen Project in Morgan County Illinois, USA. Energy Procedia, 2014, 63, 6361-6367.	1.8	8
57	Borehole muography of subsurface reservoirs. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180060.	1.6	8
58	Geophysical Monitoring Methods Evaluation for the FutureGen 2.0 Project. Energy Procedia, 2014, 63, 4394-4403.	1.8	7
59	Geomechanical Evaluation of Thermal Impact of Injected CO2 Temperature on a Geological Reservoir: Application to the FutureGen 2.0 Site. Energy Procedia, 2014, 63, 3298-3304.	1.8	7
60	Novel highly dispersible, thermally stable core/shell proppants for geothermal applications. Geothermics, 2017, 70, 98-109.	1.5	7
61	Muon Borehole Detector Design for Use in 4-D Density Overburden Monitoring. IEEE Transactions on Nuclear Science, 2018, 65, 2724-2731.	1.2	7
62	Insights into a Greener Stimuli-Responsive Fracturing Fluid for Geothermal Energy Recovery. ACS Sustainable Chemistry and Engineering, 2019, 7, 19660-19668.	3.2	7
63	Time-lapse borehole gravity imaging of CO ₂ injection and withdrawal in a closed carbonate reef. Geophysics, 2021, 86, G113-G132.	1.4	7
64	Flow duration of a dike constrained by palaeomagnetic data. Geophysical Journal International, 1991, 106, 621-634.	1.0	6
65	Thermal impact of CO2 injection on geomechanical response at the FutureGen 2.0 Site: A three-dimensional thermo-geomechanical approach. International Journal of Greenhouse Gas Control, 2016, 54, 29-49.	2.3	6
66	Mapping the seafloor from space. Endeavour, 1996, 20, 157-161.	0.1	4
67	Local Sensitivity of Predicted CO2 Injectivity and Plume Extent to Model Inputs for the FutureGen 2.0 site. Energy Procedia, 2014, 63, 3805-3814.	1.8	4
68	Experimental study of drying effects during supercritical CO2 displacement in a pore network. Microfluidics and Nanofluidics, 2018, 22, 1.	1.0	4
69	Application of three-component VSP technology at seismically difficult sites: An example from the FutureGen 2.0 site, Morgan County, Illinois, USA. Energy Procedia, 2014, 63, 5051-5062.	1.8	3
70	Pre-mineralization thermal evolution of the Palaeoproterozoic gold-rich Ashanti belt, Ghana. Geological Society Special Publication, 2005, 248, 103-118.	0.8	2
71	FutureGen 2.0 Monitoring Program: An Overview of the Monitoring Approach and Technologies Selected for Implementation. Energy Procedia, 2014, 63, 4062-4070.	1.8	2
72	The Newberry Deep Drilling Project (NDDP) workshop. Scientific Drilling, 0, 24, 79-86.	1.0	2

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73	Evaluation of a Greener Fracturing Fluid for Geothermal Energy Recovery: An Experimental and Simulation Study. Geothermics, 2021, 97, 102266.	1.5	2
74	Crucial measurement issues discussed at geodynamics meeting. Eos, 1998, 79, 633-633.	0.1	1
75	Geologic Sequestration Software Suite (GS3): A collaborative approach to the management of geological GHG storage projects. Energy Procedia, 2011, 4, 3825-3832.	1.8	1
76	Reply to the Comments made by Archambault and Tanguy on "Thermal survey of Mount Etna Volcano from spaceâ€. Geophysical Research Letters, 1993, 20, 1001-1001.	1.5	0
77	Implementations of a Flexible Framework for Managing Geologic Sequestration Modeling Projects. Energy Procedia, 2013, 37, 3971-3979.	1.8	O
78	Introduction to special section: CO2 storage and utilization. Interpretation, 2015, 3, SMi-SMi.	0.5	0
79	Joint muon and seismic imaging of the subsurface. , 2016, , .		0