

Alain Bonneville

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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	Experimental study of crossover from capillary to viscous fingering for supercritical CO ₂ -water displacement in a homogeneous pore network. <i>Environmental Science & Technology</i> , 2013 , 47, 212-8 ^{10.3}		97
78	How many Pacific hotspots are fed by deep-mantle plumes?. <i>Geology</i> , 2001 , 29, 695	5	77
77	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
76	Persistent thermal activity at the Eastern Gulf of Aden after continental break-up. <i>Nature Geoscience</i> , 2008 , 1, 854-858	18.3	54
75	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
74	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
73	Arago Seamount: The missing hotspot found in the Austral Islands. <i>Geology</i> , 2002 , 30, 1023	5	47
72	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
71	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
70	A shallow, chemical origin for the Marquesas Swell. <i>Geochemistry, Geophysics, Geosystems</i> , 2000 , 1, n/a-n/a ^{3.6}		43
69	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
68	A giant landslide on the southern flank of Tahiti Island, French Polynesia. <i>Geophysical Research Letters</i> , 2001 , 28, 2253-2256	4.9	41
67	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
66	Ages of seamounts, islands, and plateaus on the Pacific plate 2005 ,		40
65	Using neural networks to predict thermal conductivity from geophysical well logs. <i>Geophysical Journal International</i> , 2006 , 166, 115-125	2.6	39
64	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
63	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

62	Extent of the South Pacific Superswell. <i>Journal of Geophysical Research</i> , 2005 , 110,		34
61	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
60	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
59	3D Cosmic Ray Muon Tomography from an Underground Tunnel. <i>Pure and Applied Geophysics</i> , 2017 , 174, 2133-2141	2.2	29
58	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
57	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
56	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
55	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
54	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
53	The seafloor swells and Superswell in French Polynesia. <i>Journal of Geophysical Research</i> , 1998 , 103, 27123-27134		24
52	Numerical modelling of caldera dynamical behaviour. <i>Geophysical Journal International</i> , 1991 , 105, 365-378		23
51	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
50	Environmentally friendly, rheoreversible, hydraulic-fracturing fluids for enhanced geothermal systems. <i>Geothermics</i> , 2015 , 58, 22-31	4.3	19
49	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
48	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
47	A fluid pressure and deformation analysis for geological sequestration of carbon dioxide. <i>Computers and Geosciences</i> , 2012 , 46, 31-37	4.5	18
46	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
45	Noble gases as tools for subsurface monitoring of CO2 leakage. <i>Energy Procedia</i> , 2009 , 1, 2185-2192	2.3	15

44	The thermal regime of South African continental margins. <i>Earth and Planetary Science Letters</i> , 2008 , 267, 256-265	5.3	15
43	Modal depths from shipboard bathymetry: There is a south pacific superswell. <i>Geophysical Research Letters</i> , 1996 , 23, 3397-3400	4.9	15
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). <i>Geochemistry, Geophysics, Geosystems</i> , 2006 , 7, n/a-n/a	3.6	14
41	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
40	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
39	An overview of the monitoring program design for the FutureGen 2.0 CO2 storage site. <i>International Journal of Greenhouse Gas Control</i> , 2016 , 51, 193-206	4.2	12
38	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
37	Thermal Modelling of Fluid Flow Effects In Thin-Dipping Aquifers. <i>Geophysical Journal International</i> , 1993 , 112, 276-289	2.6	12
36	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
35	Time-lapse gravity monitoring of CO2 migration based on numerical modeling of a faulted storage complex. <i>International Journal of Greenhouse Gas Control</i> , 2020 , 95, 102956	4.2	11
34	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
33	Shear strength of the Great Pacific Fracture Zones. <i>Geophysical Research Letters</i> , 1992 , 19, 2023-2026	4.9	10
32	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
31	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
30	METSTOR: A GIS to look for potential CO2 storage zones in France. <i>Energy Procedia</i> , 2009 , 1, 2809-2816	2.3	9
29	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
28	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
27	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

26	Geophysical Monitoring Methods Evaluation for the FutureGen 2.0 Project. <i>Energy Procedia</i> , 2014 , 63, 4394-4403	2.3	7
25	No thinning of the lithosphere beneath northern part of the Cook-Austral volcanic chains. <i>Journal of Geophysical Research</i> , 2008 , 113,		7
24	Borehole muography of subsurface reservoirs. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 377,	3	6
23	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
22	Novel highly dispersible, thermally stable core/shell proppants for geothermal applications. <i>Geothermics</i> , 2017 , 70, 98-109	4.3	6
21	Flow duration of a dike constrained by palaeomagnetic data. <i>Geophysical Journal International</i> , 1991 , 106, 621-634	2.6	6
20	Thermal impact of CO2 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
19	Exploring Structural Controls on Sumatran Earthquakes. <i>Eos</i> , 2010 , 91, 405	1.5	5
18	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
17	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
16	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
15	Experimental study of drying effects during supercritical CO2 displacement in a pore network. <i>Microfluidics and Nanofluidics</i> , 2018 , 22, 1	2.8	3
14	Time-lapse borehole gravity imaging of CO2 injection and withdrawal in a closed carbonate reef. <i>Geophysics</i> , 2021 , 86, G113-G132	3.1	3
13	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
12	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
11	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
10	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
9	Mapping the seafloor from space. <i>Endeavour</i> , 1996 , 20, 157-161	0.5	1

8	Sensitivity of geophysical techniques for monitoring secondary CO2 storage plumes. <i>International Journal of Greenhouse Gas Control</i> , 2022 , 114, 103585	4.2	1
7	The Newberry Deep Drilling Project (NDDP) workshop. <i>Scientific Drilling</i> , 24, 79-86		1
6	Evaluation of a Greener Fracturing Fluid for Geothermal Energy Recovery: An Experimental and Simulation Study. <i>Geothermics</i> , 2021 , 97, 102266	4.3	0
5	Implementations of a Flexible Framework for Managing Geologic Sequestration Modeling Projects. <i>Energy Procedia</i> , 2013 , 37, 3971-3979	2.3	
4	Crucial measurement issues discussed at Geodynamics Meeting. <i>Eos</i> , 1998 , 79, 633-633	1.5	
3	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	
2	A Hydro-Mechanical Model and Analytical Solutions for Geomechanical Modeling of Carbon Dioxide Geological Sequestration 47-53		
1	Monitoring Carbon Storage Sites With Time-Lapse Gravity Surveys. <i>Geophysical Monograph Series</i> , 2022 , 211-232		1.1