FrÃ©dÃ©ric Girault

List of Publications by Year
in descending order

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43	832	430874	501196
papers	citations	18 h-index	28 g-index

43	43	43	776
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Results of the eruptive column model inter-comparison study. Journal of Volcanology and Geothermal Research, 2016, 326, 2-25.	2.1	114
2	The Syabruâ€Bensi hydrothermal system in central Nepal: 1. Characterization of carbon dioxide and radon fluxes. Journal of Geophysical Research: Solid Earth, 2014, 119, 4017-4055.	3.4	45
3	The effect of total grain-size distribution on the dynamics of turbulent volcanic plumes. Earth and Planetary Science Letters, 2014, 394, 124-134.	4.4	41
4	Radon emanation from brittle fracturing in granites under upper crustal conditions. Geophysical Research Letters, 2014, 41, 5436-5443.	4.0	40
5	The Syabruâ€Bensi hydrothermal system in central Nepal: 2. Modeling and significance of the radon signature. Journal of Geophysical Research: Solid Earth, 2014, 119, 4056-4089.	3.4	38
6	Persistent CO2 emissions and hydrothermal unrest following the 2015 earthquake in Nepal. Nature Communications, 2018, 9, 2956.	12.8	36
7	Laboratory experiments of forced plumes in a densityâ€stratified crossflow and implications for volcanic plumes. Geophysical Research Letters, 2014, 41, 8759-8766.	4.0	33
8	Harmonic response of soil radon-222 flux and concentration induced by barometric oscillations. Geophysical Journal International, 2013, 195, 945-971.	2.4	31
9	Frictional Heating Processes and Energy Budget During Laboratory Earthquakes. Geophysical Research Letters, 2018, 45, 12,274.	4.0	31
10	Temporal signatures of advective versus diffusive radon transport at a geothermal zone in Central Nepal. Journal of Environmental Radioactivity, 2011, 102, 88-102.	1.7	30
11	Radon-222 and radium-226 occurrence in water: a review. Geological Society Special Publication, 2018, 451, 131-154.	1.3	30
12	Measuring effective radium concentration with large numbers of samples. Part I â€“ experimental method and uncertainties. Journal of Environmental Radioactivity, 2012, 113, 177-188.	1.7	26
13	Large-scale organization of carbon dioxide discharge in the Nepal Himalayas. Geophysical Research Letters, 2014, 41, 6358-6366.	4.0	26
14	Estimating the importance of factors influencing the radon-222 flux from building walls. Science of the Total Environment, 2012, 433, 247-263.	8.0	23
15	Radon emanation of heterogeneous basin deposits in Kathmandu Valley, Nepal. Journal of Asian Earth Sciences, 2011, 40, 595-610.	2.3	21
16	Measuring effective radium concentration with large numbers of samples. Part II â€“ general properties and representativity. Journal of Environmental Radioactivity, 2012, 113, 189-202.	1.7	21
17	Heterogeneous temperature sensitivity of effective radium concentration from various rock and soil samples. Natural Hazards and Earth System Sciences, 2011, 11, 1619-1626.	3.6	20
18	Transient radon signals driven by fluid pressure pulse, micro-crack closure, and failure during granite deformation experiments. Earth and Planetary Science Letters, 2017, 474, 409-418.	4.4	20

#	Article	IF	Citations
19	Persistence of radon-222 flux during monsoon at a geothermal zone in Nepal. Journal of Environmental Radioactivity, 2009, 100, 955-964.	1.7	17
20	Effective radium concentration across the Main Central Thrust in the Nepal Himalayas. Geochimica Et Cosmochimica Acta, 2012, 98, 203-227.	3.9	16
21	Optimized measurement of radium-226 concentration in liquid samples with radon-222 emanation. Journal of Environmental Radioactivity, 2016, 157, 52-59.	1.7	16
22	Effective radium concentration in topsoils contaminated by lead and zinc smelters. Science of the Total Environment, 2016, 566-567, 865-876.	8.0	16
23	Combined effects of total grain-size distribution and crosswind on the rise of eruptive volcanic columns. Journal of Volcanology and Geothermal Research, 2016, 326, 103-113.	2.1	15
24	Measuring effective radium concentration with less than 5Âg of rock or soil. Journal of Environmental Radioactivity, 2012, 113, 45-56.	1.7	14
25	A revisit of the role of gas entrapment on the stability conditions of explosive volcanic columns. Journal of Volcanology and Geothermal Research, 2018, 357, 349-361.	2.1	13
26	Hydrogeological control on carbon dioxide input into the atmosphere of the Chauvet-Pont d'Arc cave. Science of the Total Environment, 2020, 716, 136844.	8.0	12
27	Soil characterization using patterns of magnetic susceptibility versus effective radium concentration. Natural Hazards and Earth System Sciences, 2011, 11, 2285-2293.	3.6	11
28	Anomalous Complex Electrical Conductivity of a Graphitic Black Schist From the Himalayas of Central Nepal. Geophysical Research Letters, 2018, 45, 3984-3993.	4.0	11
29	Effective radium-226 concentration in meteorites. Geochimica Et Cosmochimica Acta, 2017, 208, 198-219.	3.9	10
30	Radon and carbon dioxide around remote Himalayan thermal springs. Geological Society Special Publication, 2018, 451, 155-181.	1.3	8
31	Effective radium-226 concentration in rocks, soils, plants and bones. Geological Society Special Publication, 2018, 451, 113-129.	1.3	7
32	Orogenic Collapse and Stress Adjustments Revealed by an Intense Seismic Swarm Following the 2015 Gorkha Earthquake in Nepal. Frontiers in Earth Science, 2021, 9, .	1.8	6
33	Effective radium concentration in agricultural versus forest topsoils. Journal of Environmental Radioactivity, 2016, 160, 123-134.	1.7	5
34	Substratum influences uptake of radium-226 by plants. Science of the Total Environment, 2021, 766, 142655.	8.0	5
35	Radon signature of CO2 flux constrains the depth of degassing: Furnas volcano (Azores, Portugal) versus Syabru-Bensi (Nepal Himalayas). Scientific Reports, 2022, 12, .	3.3	5
36	An example of the relevance of symmetry in physics: corner theorems in grids and cubic resistor networks. European Journal of Physics, 2020, 41, 035805.	0.6	4

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37	Rotational invariance in resistor networks: two-point resistances around an n-fold corner. European Journal of Physics, 2021, 42, 025803.	0.6	4
38	Geology and mineral resources of Khudi-Bahundanda area of west-central Nepal along Marshyangdi Valley. Journal of Nepal Geological Society, 0, 58, 97-103.	0.2	3
39	Radon emanation from human hair. Science of the Total Environment, 2019, 660, 421-428.	8.0	2
40	Symmetries, recurrence, and explicit expressions of two-point resistances in 2 Ã— n globe resistor networks. European Journal of Physics, 2021, 42, 055201.	0.6	2
41	Two-point resistances in Archimedean resistor networks. Results in Physics, 2022, 36, 105443.	4.1	2
42	Geology and micro-structure analysis of the MCT zone along Khudi- Bahundanda area of Lamjung District, west-central Nepal. Journal of Nepal Geological Society, 0, 58, 105-110.	0.2	1
43	Recurrence relations in m Ã— 3 scaffolding and globe resistor networks. Physica Scripta, 2021, 96, 085003.	2.5	1