

Frédéric Girault

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1662624/publications.pdf>

Version: 2024-02-01

43
papers

832
citations

430874

18
h-index

501196

28
g-index

43
all docs

43
docs citations

43
times ranked

776
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-point resistances in Archimedean resistor networks. <i>Results in Physics</i> , 2022, 36, 105443.	4.1	2
2	Radon signature of CO ₂ flux constrains the depth of degassing: Furnas volcano (Azores, Portugal) versus Syabru-Bensi (Nepal Himalayas). <i>Scientific Reports</i> , 2022, 12, .	3.3	5
3	Substratum influences uptake of radium-226 by plants. <i>Science of the Total Environment</i> , 2021, 766, 142655.	8.0	5
4	Rotational invariance in resistor networks: two-point resistances around an n-fold corner. <i>European Journal of Physics</i> , 2021, 42, 025803.	0.6	4
5	Recurrence relations in m-3 scaffolding and globe resistor networks. <i>Physica Scripta</i> , 2021, 96, 085003.	2.5	1
6	Symmetries, recurrence, and explicit expressions of two-point resistances in 2-n globe resistor networks. <i>European Journal of Physics</i> , 2021, 42, 055201.	0.6	2
7	Orogenic Collapse and Stress Adjustments Revealed by an Intense Seismic Swarm Following the 2015 Gorkha Earthquake in Nepal. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	6
8	An example of the relevance of symmetry in physics: corner theorems in grids and cubic resistor networks. <i>European Journal of Physics</i> , 2020, 41, 035805.	0.6	4
9	Hydrogeological control on carbon dioxide input into the atmosphere of the Chauvet-Pont d'Arc cave. <i>Science of the Total Environment</i> , 2020, 716, 136844.	8.0	12
10	Radon emanation from human hair. <i>Science of the Total Environment</i> , 2019, 660, 421-428.	8.0	2
11	Effective radium-226 concentration in rocks, soils, plants and bones. <i>Geological Society Special Publication</i> , 2018, 451, 113-129.	1.3	7
12	Radon and carbon dioxide around remote Himalayan thermal springs. <i>Geological Society Special Publication</i> , 2018, 451, 155-181.	1.3	8
13	Radon-222 and radium-226 occurrence in water: a review. <i>Geological Society Special Publication</i> , 2018, 451, 131-154.	1.3	30
14	Frictional Heating Processes and Energy Budget During Laboratory Earthquakes. <i>Geophysical Research Letters</i> , 2018, 45, 12,274.	4.0	31
15	Anomalous Complex Electrical Conductivity of a Graphitic Black Schist From the Himalayas of Central Nepal. <i>Geophysical Research Letters</i> , 2018, 45, 3984-3993.	4.0	11
16	Persistent CO ₂ emissions and hydrothermal unrest following the 2015 earthquake in Nepal. <i>Nature Communications</i> , 2018, 9, 2956.	12.8	36
17	A revisit of the role of gas entrapment on the stability conditions of explosive volcanic columns. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 357, 349-361.	2.1	13
18	Effective radium-226 concentration in meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 208, 198-219.	3.9	10

#	ARTICLE	IF	CITATIONS
19	Transient radon signals driven by fluid pressure pulse, micro-crack closure, and failure during granite deformation experiments. <i>Earth and Planetary Science Letters</i> , 2017, 474, 409-418.	4.4	20
20	Optimized measurement of radium-226 concentration in liquid samples with radon-222 emanation. <i>Journal of Environmental Radioactivity</i> , 2016, 157, 52-59.	1.7	16
21	Combined effects of total grain-size distribution and crosswind on the rise of eruptive volcanic columns. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 326, 103-113.	2.1	15
22	Effective radium concentration in agricultural versus forest topsoils. <i>Journal of Environmental Radioactivity</i> , 2016, 160, 123-134.	1.7	5
23	Effective radium concentration in topsoils contaminated by lead and zinc smelters. <i>Science of the Total Environment</i> , 2016, 566-567, 865-876.	8.0	16
24	Results of the eruptive column model inter-comparison study. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 326, 2-25.	2.1	114
25	Radon emanation from brittle fracturing in granites under upper crustal conditions. <i>Geophysical Research Letters</i> , 2014, 41, 5436-5443.	4.0	40
26	The effect of total grain-size distribution on the dynamics of turbulent volcanic plumes. <i>Earth and Planetary Science Letters</i> , 2014, 394, 124-134.	4.4	41
27	The Syabru-Bensi hydrothermal system in central Nepal: 1. Characterization of carbon dioxide and radon fluxes. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4017-4055.	3.4	45
28	The Syabru-Bensi hydrothermal system in central Nepal: 2. Modeling and significance of the radon signature. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4056-4089.	3.4	38
29	Large-scale organization of carbon dioxide discharge in the Nepal Himalayas. <i>Geophysical Research Letters</i> , 2014, 41, 6358-6366.	4.0	26
30	Laboratory experiments of forced plumes in a density-stratified crossflow and implications for volcanic plumes. <i>Geophysical Research Letters</i> , 2014, 41, 8759-8766.	4.0	33
31	Harmonic response of soil radon-222 flux and concentration induced by barometric oscillations. <i>Geophysical Journal International</i> , 2013, 195, 945-971.	2.4	31
32	Estimating the importance of factors influencing the radon-222 flux from building walls. <i>Science of the Total Environment</i> , 2012, 433, 247-263.	8.0	23
33	Measuring effective radium concentration with large numbers of samples. Part I – experimental method and uncertainties. <i>Journal of Environmental Radioactivity</i> , 2012, 113, 177-188.	1.7	26
34	Effective radium concentration across the Main Central Thrust in the Nepal Himalayas. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 98, 203-227.	3.9	16
35	Measuring effective radium concentration with large numbers of samples. Part II – general properties and representativity. <i>Journal of Environmental Radioactivity</i> , 2012, 113, 189-202.	1.7	21
36	Measuring effective radium concentration with less than 5Âg of rock or soil. <i>Journal of Environmental Radioactivity</i> , 2012, 113, 45-56.	1.7	14

#	ARTICLE	IF	CITATIONS
37	Radon emanation of heterogeneous basin deposits in Kathmandu Valley, Nepal. <i>Journal of Asian Earth Sciences</i> , 2011, 40, 595-610.	2.3	21
38	Heterogeneous temperature sensitivity of effective radium concentration from various rock and soil samples. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 1619-1626.	3.6	20
39	Soil characterization using patterns of magnetic susceptibility versus effective radium concentration. <i>Natural Hazards and Earth System Sciences</i> , 2011, 11, 2285-2293.	3.6	11
40	Temporal signatures of advective versus diffusive radon transport at a geothermal zone in Central Nepal. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 88-102.	1.7	30
41	Persistence of radon-222 flux during monsoon at a geothermal zone in Nepal. <i>Journal of Environmental Radioactivity</i> , 2009, 100, 955-964.	1.7	17
42	Geology and micro-structure analysis of the MCT zone along Khudi- Bahundanda area of Lamjung District, west-central Nepal. <i>Journal of Nepal Geological Society</i> , 0, 58, 105-110.	0.2	1
43	Geology and mineral resources of Khudi-Bahundanda area of west-central Nepal along Marshyangdi Valley. <i>Journal of Nepal Geological Society</i> , 0, 58, 97-103.	0.2	3