

Patrick Allard

List of Publications by Year in descending order

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51
papers

3,522
citations

147726

31
h-index

197736

49
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51
all docs

51
docs citations

51
times ranked

2754
citing authors

#	ARTICLE	IF	CITATIONS
1	Magmatic Gas Composition Reveals the Source Depth of Slug-Driven Strombolian Explosive Activity. <i>Science</i> , 2007, 317, 227-230.	6.0	315
2	Spectroscopic evidence for a lava fountain driven by previously accumulated magmatic gas. <i>Nature</i> , 2005, 433, 407-410.	13.7	243
3	Mount Etna 1993–2005: Anatomy of an evolving eruptive cycle. <i>Earth-Science Reviews</i> , 2006, 78, 85-114.	4.0	235
4	Mobility and fluxes of major, minor and trace metals during basalt weathering and groundwater transport at Mt. Etna volcano (Sicily). <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 1827-1841.	1.6	232
5	Endogenous magma degassing and storage at Mount Etna. <i>Geophysical Research Letters</i> , 1997, 24, 2219-2222.	1.5	192
6	S ³⁶ S degassing pattern of water-rich alkali basalt: Modelling and relationship with eruption styles on Mount Etna volcano. <i>Earth and Planetary Science Letters</i> , 2006, 248, 772-786.	1.8	154
7	Mantle-derived helium and carbon in groundwaters and gases of Mount Etna, Italy. <i>Earth and Planetary Science Letters</i> , 1997, 148, 501-516.	1.8	142
8	Acid gas and metal emission rates during long-lived basalt degassing at Stromboli Volcano. <i>Geophysical Research Letters</i> , 2000, 27, 1207-1210.	1.5	127
9	Magma-derived gas influx and water-rock interactions in the volcanic aquifer of Mt. Vesuvius, Italy. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 963-981.	1.6	116
10	The emissions of CO ₂ and other volatiles from the world's subaerial volcanoes. <i>Scientific Reports</i> , 2019, 9, 18716.	1.6	109
11	Atmospheric sources and sinks of volcanogenic elements in a basaltic volcano (Etna, Italy). <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7401-7425.	1.6	104
12	A CO ₂ -rich gas trigger of explosive paroxysms at Stromboli basaltic volcano, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 189, 363-374.	0.8	97
13	Magma and Volatile Supply to Post-collapse Volcanism and Block Resurgence in Siwi Caldera (Tanna) Tj ETQq1 1 0.784314 rgBT /Ove 1.1 84		
14	Isotope geochemistry of Pantelleria volcanic fluids, Sicily Channel rift: a mantle volatile end-member for volcanism in southern Europe. <i>Earth and Planetary Science Letters</i> , 2000, 180, 325-339.	1.8	82
15	¹⁸ O exchange between steam and carbon dioxide in volcanic and hydrothermal gases: implications for the source of water. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 2479-2488.	1.6	70
16	Prodigious emission rates and magma degassing budget of major, trace and radioactive volatile species from Ambrym basaltic volcano, Vanuatu island Arc. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 119-143.	0.8	67
17	Magma-derived CO ₂ emissions recorded in and content of plants growing in Furnas caldera, Azores. <i>Journal of Volcanology and Geothermal Research</i> , 1999, 92, 195-207.	0.8	65
18	First estimate of volcanic SO ₂ budget for Vanuatu island arc. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 211-212, 36-46.	0.8	65

#	ARTICLE	IF	CITATIONS
19	Volcanic gas emissions from the summit craters and flanks of Mt. Etna, 1987–2000. <i>Geophysical Monograph Series</i> , 2004, , 111-128.	0.1	64
20	Pre- and syn-eruptive geochemistry of volcanic gases from Soufriere Hills of Montserrat, West Indies. <i>Geophysical Research Letters</i> , 1998, 25, 3685-3688.	1.5	63
21	Trace metal modeling of groundwater–gas–rock interactions in a volcanic aquifer: Mount Vesuvius, Southern Italy. <i>Chemical Geology</i> , 2005, 216, 289-311.	1.4	62
22	Steam and gas emission rate from La Soufriere volcano, Guadeloupe (Lesser Antilles): Implications for the magmatic supply during degassing unrest. <i>Chemical Geology</i> , 2014, 384, 76-93.	1.4	56
23	Geochemical mapping of magmatic gas–water–rock interactions in the aquifer of Mount Etna volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 108, 199-218.	0.8	55
24	New clues on the contribution of Earth's volcanism to the global mercury cycle. <i>Bulletin of Volcanology</i> , 2011, 73, 497-510.	1.1	54
25	Carbon Dioxide Emissions from Subaerial Volcanic Regions. , 2019, , 188-236.		53
26	Continuous monitoring of distal gas emanations at Vulcano, southern Italy. <i>Bulletin of Volcanology</i> , 1992, 54, 147-155.	1.1	49
27	The 2018 unrest phase at La Soufrière of Guadeloupe (French West Indies) andesitic volcano: Scrutiny of a failed but prodromal phreatic eruption. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 393, 106769.	0.8	45
28	Degassing vs. eruptive styles at Mt. Etna volcano (Sicily, Italy). Part I: Volatile stocking, gas fluxing, and the shift from low-energy to highly explosive basaltic eruptions. <i>Chemical Geology</i> , 2018, 482, 1-17.	1.4	43
29	Degassing dynamics of basaltic lava lake at a top-ranking volatile emitter: Ambrym volcano, Vanuatu arc. <i>Earth and Planetary Science Letters</i> , 2016, 448, 69-80.	1.8	41
30	Global emissions of helium by subaerial volcanism. <i>Geophysical Research Letters</i> , 1992, 19, 1479-1481.	1.5	37
31	Open-path FTIR spectroscopy of magma degassing processes during eight lava fountains on Mount Etna. <i>Earth and Planetary Science Letters</i> , 2015, 413, 123-134.	1.8	37
32	Chemical variations in fumarolic gases at Vulcano Island (Southern Italy): seasonal and volcanic effects. <i>Journal of Volcanology and Geothermal Research</i> , 1991, 45, 325-334.	0.8	36
33	Degassing behaviour of vesiculated basaltic magmas: an example from Ambrym volcano, Vanuatu Arc. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 233-234, 55-64.	0.8	31
34	Estimate of carbonyl sulfide (OCS) volcanic source strength deduced from OCS/CO ₂ ratios in volcanic gases. <i>Geophysical Research Letters</i> , 1986, 13, 133-136.	1.5	30
35	Regional variations in the chemical and helium–carbon isotope composition of geothermal fluids across Tunisia. <i>Chemical Geology</i> , 2011, 288, 67-85.	1.4	28
36	Spatio-Temporal Relationships between Fumarolic Activity, Hydrothermal Fluid Circulation and Geophysical Signals at an Arc Volcano in Degassing Unrest: La Soufrière of Guadeloupe (French West)		28

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37	Mercury gas emissions from La Soufrière Volcano, Guadeloupe Island (Lesser Antilles). <i>Chemical Geology</i> , 2009, 266, 267-273.	1.4	27
38	Seismic precursors of a basaltic paroxysmal explosion track deep gas accumulation and slug upraise. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	27
39	Magmatic gas leakage at Mount Etna (Sicily, Italy): Relationships with the volcano-tectonic structures, the hydrological pattern and the eruptive activity.. <i>Geophysical Monograph Series</i> , 2004, , 129-145.	0.1	25
40	Mercury concentration, speciation and budget in volcanic aquifers: Italy and Guadeloupe (Lesser Antilles). <i>Journal of Geophysical Research</i> , 2010, 115, 10T06.	0.8	23
41	Magma Degassing at Piton de la Fournaise Volcano. <i>Active Volcanoes of the World</i> , 2016, , 203-222.	1.0	23
42	First measurement of the volcanic gas output from Anak Krakatau, Indonesia. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 302, 237-241.	0.8	17
43	Crater Gas Emissions and the Magma Feeding System of Stromboli Volcano. <i>Geophysical Monograph Series</i> , 0, , 65-80.	0.1	16
44	Gas Monitoring of Volcanic-Hydrothermal Plumes in a Tropical Environment: The Case of La Soufrière de Guadeloupe Unrest Volcano (Lesser Antilles). <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	12
45	Helium isotope systematics of volcanic gases and thermal waters of Guadeloupe Island, Lesser Antilles. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 283, 66-72.	0.8	11
46	Correction to "Global emissions of helium-3 by subaerial volcanism". <i>Geophysical Research Letters</i> , 1992, 19, 2103-2103.	1.5	10
47	Comment on "Conduit convection, magma mixing, and melt inclusion trends at persistent degassing volcanoes" by Fred Witham, published in <i>Earth Planetary Science Letters</i> (2011) 301, 345-352. <i>Earth and Planetary Science Letters</i> , 2011, 306, 306-308.	1.8	6
48	Spatial distribution of helium isotopes in volcanic gases and thermal waters along the Vanuatu (New Hebrides) arc. <i>Journal of Geophysical Research</i> , 2008, 113, 10T06.	0.8	6
49	Gas Leakage From Shallow Ponding Magma and Trapdoor Faulting at Sierra Negra Volcano (Isabela). <i>Journal of Geophysical Research</i> , 2014, 119, 10T04.	1.0	4
50	Dégazage magmatique diffus à la Soufrière de Guadeloupe, Antilles. <i>Comptes Rendus De L'Académie Des Sciences Earth & Planetary Sciences Série II, Sciences De La Terre Et Des Planètes</i> , 1998, 327, 315-318.	0.2	2
51	First Multi-GAS based characterisation of the Boiling Lake volcanic gas (Dominica, Lesser Antilles). <i>Annals of Geophysics</i> , 2014, 56, .	0.5	2