

Georges Boudon

List of Publications by Year in descending order

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89
papers

3,586
citations

87888

38
h-index

161849

54
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92
all docs

92
docs citations

92
times ranked

2148
citing authors

#	ARTICLE	IF	CITATIONS
1	Submarine evidence for large-scale debris avalanches in the Lesser Antilles Arc. <i>Earth and Planetary Science Letters</i> , 2001, 192, 145-157.	4.4	199
2	Volcano flank instability in the Lesser Antilles Arc: Diversity of scale, processes, and temporal recurrence. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	137
3	Geomorphological evolution of Montserrat (West Indies): importance of flank collapse and erosional processes. <i>Journal of the Geological Society</i> , 2004, 161, 147-160.	2.1	124
4	H ₂ O and halogen (F, Cl, Br) behaviour during shallow magma degassing processes. <i>Earth and Planetary Science Letters</i> , 1999, 168, 271-286.	4.4	119
5	Submarine pyroclastic deposits formed at the Soufrière Hills volcano, Montserrat (1995–2003): What happens when pyroclastic flows enter the ocean?. <i>Geology</i> , 2006, 34, 549.	4.4	99
6	Paleomagnetic directions and K/Ar dating of 0 to 1 Ma lava flows from La Guadeloupe Island (French Tj ETQq0 0 0 rgBT /Overlock 10 Tf 835-849.	3.3	86
7	The 26 December (Boxing Day) 1997 sector collapse and debris avalanche at Soufrière Hills Volcano, Montserrat. <i>Geological Society Memoir</i> , 2002, 21, 363-407.	1.7	86
8	Transition from dome-forming to plinian eruptive styles controlled by H ₂ O and Cl degassing. <i>Nature</i> , 1998, 392, 65-69.	27.8	81
9	A new scenario for the last magmatic eruption of La Soufrière of Guadeloupe (Lesser Antilles) in 1530 A.D. Evidence from stratigraphy radiocarbon dating and magmatic evolution of erupted products. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 474-490.	2.1	80
10	Heat flow in the Lesser Antilles island arc and adjacent back arc Grenada basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	80
11	The 1984 nuï½e-ardente deposits of Merapi volcano, Central Java, Indonesia: stratigraphy, textural characteristics, and transport mechanisms. <i>Bulletin of Volcanology</i> , 1993, 55, 327-342.	3.0	78
12	Large-scale flank collapse events during the activity of Montagne Pelée, Martinique, Lesser Antilles. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	77
13	The memory of volcanic waters: Shallow magma degassing revealed by halogen monitoring in thermal springs of La Soufrière volcano (Guadeloupe, Lesser Antilles). <i>Earth and Planetary Science Letters</i> , 2005, 237, 710-728.	4.4	69
14	Late Pleistocene tephrochronology of marine sediments adjacent to Montserrat, Lesser Antilles volcanic arc. <i>Journal of the Geological Society</i> , 2008, 165, 279-289.	2.1	60
15	Active faulting induced by slip partitioning in Montserrat and link with volcanic activity: New insights from the 2009 GWADASEIS marine cruise data. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	58
16	Multiple widespread landslides during the long-term evolution of a volcanic island: Insights from high-resolution seismic data, Montserrat, Lesser Antilles. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, .	2.5	57
17	Submarine record of volcanic island construction and collapse in the Lesser Antilles arc: First scientific drilling of submarine volcanic island landslides by IODP Expedition 340. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 420-442.	2.5	57
18	Behavior of halogens during the degassing of felsic magmas. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	56

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19	Electrical tomography of La Soufrière of Guadeloupe Volcano: Field experiments, 1D inversion and qualitative interpretation. <i>Earth and Planetary Science Letters</i> , 2006, 244, 709-724.	4.4	55
20	Simulation of water waves generated by a potential debris avalanche in Montserrat, Lesser Antilles. <i>Geophysical Research Letters</i> , 1998, 25, 3697-3700.	4.0	52
21	Submarine deposition of volcanoclastic material from the 1995–2005 eruptions of Soufrière Hills volcano, Montserrat. <i>Journal of the Geological Society</i> , 2009, 166, 171-182.	2.1	52
22	Transport properties of pyroclastic rocks from Montagne Pelée volcano (Martinique, Lesser Antilles). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	50
23	Radiometric dating of three large volume flank collapses in the Lesser Antilles Arc. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 176, 485-492.	2.1	50
24	Hydrothermal circulation beneath Mount Pelée inferred by self potential surveying. Structural and tectonic implications. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 84, 73-91.	2.1	49
25	Effusive history of the Grande Découverte Volcanic Complex, southern Basse-Terre (Guadeloupe). <i>Journal of Volcanology and Geothermal Research</i> , 2009, 187, 117-130.	2.1	49
26	The hydrothermal system at Soufrière Hills Volcano, Montserrat (West Indies): Characterization and role in the on-going eruption. <i>Geophysical Research Letters</i> , 1998, 25, 3693-3696.	4.0	48
27	Reconstruction and analysis of sub-plinian tephra dispersal during the 1530 A.D. Soufrière (Guadeloupe) eruption: Implications for scenario definition and hazards assessment. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 491-515.	2.1	48
28	What factors control superficial lava dome explosivity?. <i>Scientific Reports</i> , 2015, 5, 14551.	3.3	48
29	Trachyte Phase Relations and Implication for Magma Storage Conditions in the Chaîne des Puys (French Massif Central). <i>Journal of Petrology</i> , 2013, 54, 1071-1107.	2.8	47
30	Stratigraphy of the 1902 and 1929 nuées ardentes deposits, Mt. Pelée, Martinique. <i>Journal of Volcanology and Geothermal Research</i> , 1989, 38, 77-96.	2.1	44
31	Magma and hydrothermally driven sector collapses: The 3100 and 11,500 y. B.P. eruptions of la Grande Découverte (la Soufrière) volcano, Guadeloupe, French West Indies. <i>Journal of Volcanology and Geothermal Research</i> , 1987, 33, 317-323.	2.1	43
32	Numerical simulation of the December 1997 Debris Avalanche in Montserrat, Lesser Antilles. <i>Geophysical Research Letters</i> , 2001, 28, 2529-2532.	4.0	43
33	Flank failure—directed blast eruption at Soufrière, Guadeloupe, French West Indies: A 3,000-yr-old Mt. St. Helens?. <i>Geology</i> , 1984, 12, 350.	4.4	42
34	Observations, stratigraphy and eruptive processes of the 1990 eruption of Kelut volcano, Indonesia. <i>Journal of Volcanology and Geothermal Research</i> , 1997, 79, 181-203.	2.1	42
35	F and Cl diffusion in phonolitic melts: Influence of the Na/K ratio. <i>Chemical Geology</i> , 2009, 263, 89-98.	3.3	41
36	The 1902 Peléean deposits in the Fort Cemetery of St. Pierre, Martinique: a model for the accumulation of turbulent nuées ardentes. <i>Journal of Volcanology and Geothermal Research</i> , 1989, 38, 113-129.	2.1	40

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37	The volcanic activity of La Soufrière of Guadeloupe (lesser antilles): structural and tectonic implications. <i>Journal of Volcanology and Geothermal Research</i> , 1992, 49, 91-104.	2.1	40
38	U-series disequilibrium in arc magmas induced by water-magma interaction. <i>Earth and Planetary Science Letters</i> , 1996, 140, 259-267.	4.4	39
39	Eruption of Soufrière Hills (1995–2009) from an offshore perspective: Insights from repeated swath bathymetry surveys. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	39
40	A new model for the evolution of La Réunion volcanic complex from complete marine geophysical surveys. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	39
41	The primitive volcano of Mount Pelée: its construction and partial destruction by flank collapse. <i>Journal of Volcanology and Geothermal Research</i> , 1989, 38, 1-15.	2.1	37
42	Non-volatile vs volatile behaviours of halogens during the AD 79 plinian eruption of Mt. Vesuvius, Italy. <i>Earth and Planetary Science Letters</i> , 2008, 269, 66-79.	4.4	37
43	Depositional mechanics of the 1902 pyroclastic nuée ardente deposits of Mt. Pelée, Martinique. <i>Journal of Volcanology and Geothermal Research</i> , 1989, 38, 131-142.	2.1	35
44	Composition, geometry, and emplacement dynamics of a large volcanic island landslide offshore Martinique: From volcano flank collapse to seafloor sediment failure?. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 699-724.	2.5	34
45	Potential Flank-Collapse of Soufrière Volcano, Guadeloupe, Lesser Antilles? Numerical Simulation and Hazards. <i>Natural Hazards</i> , 2006, 39, 381-393.	3.4	32
46	The relationship between eruptive activity, flank collapse, and sea level at volcanic islands: A long-term (>1 Ma) record offshore Montserrat, Lesser Antilles. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 2591-2611.	2.5	31
47	Evidence for carbonate platform failure during rapid sea-level rise; ca 14,000-year old bioclastic flow deposits in the Lesser Antilles. <i>Sedimentology</i> , 2010, 57, 735-759.	3.1	30
48	Pteropods from the Caribbean Sea: variations in calcification as an indicator of past ocean carbonate saturation. <i>Biogeosciences</i> , 2012, 9, 309-315.	3.3	30
49	Numerical simulation of the last flank-collapse event of Montagne Pelée, Martinique, Lesser Antilles. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	29
50	Contrasting sedimentary processes along a convergent margin: the Lesser Antilles arc system. <i>Geo-Marine Letters</i> , 2006, 26, 397-410.	1.1	29
51	Degassing at La Soufrière de Guadeloupe volcano (Lesser Antilles) since the last eruptive crisis in 1975–77: Result of a shallow magma intrusion?. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 203, 102-112.	2.1	29
52	²³⁸ U– ²³⁰ Th– ²²⁶ Ra disequilibria in andesitic lavas of the last magmatic eruption of Guadeloupe Soufriere, french Antilles: Processes and timescales of magma differentiation. <i>Chemical Geology</i> , 2007, 246, 181-206.	3.3	27
53	Modeling of debris avalanche and generated water waves: Application to real and potential events in Montserrat. <i>Physics and Chemistry of the Earth</i> , 2000, 25, 741-745.	0.6	26
54	Role of large flank-collapse events on magma evolution of volcanoes. Insights from the Lesser Antilles Arc. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 263, 224-237.	2.1	26

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55	The Holocene drowned reef of Les Saintes plateau as witness of a long-term tectonic subsidence along the Lesser Antilles volcanic arc in Guadeloupe. <i>Marine Geology</i> , 2014, 355, 115-135.	2.1	25
56	Debris avalanche deposits offshore St. Vincent (West Indies): Impact of flank-collapse events on the morphological evolution of the island. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 179, 1-10.	2.1	24
57	Rapid onset of mafic magmatism facilitated by volcanic edifice collapse. <i>Geophysical Research Letters</i> , 2015, 42, 4778-4785.	4.0	24
58	Pre-eruptive crystallization conditions of mafic and silicic magmas at the Plat Pays volcanic complex, Dominica (Lesser Antilles). <i>Journal of Volcanology and Geothermal Research</i> , 2006, 153, 200-220.	2.1	23
59	Magma degassing and eruption dynamics of the Avellino pumice Plinian eruption of Somma-Vesuvius (Italy). Comparison with the Pompeii eruption. <i>Earth and Planetary Science Letters</i> , 2012, 331-332, 257-268.	4.4	23
60	Late Pleistocene stratigraphy of IODP Site U1396 and compiled chronology offshore of south and south west Montserrat, Lesser Antilles. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 3000-3020.	2.5	23
61	Chlorine as a geobarometer for alkaline magmas: Evidence from a systematic study of the eruptions of Mount Somma-Vesuvius. <i>Scientific Reports</i> , 2016, 6, 21726.	3.3	23
62	A volcanoclastic deep-sea fan off La Réunion Island (Indian Ocean): Gradualism versus catastrophism. <i>Geology</i> , 2011, 39, 271-274.	4.4	22
63	Textural and geochemical constraints on eruptive style of the 79 AD eruption at Vesuvius. <i>Bulletin of Volcanology</i> , 2011, 73, 279-294.	3.0	22
64	Identification of deep subaqueous co-seismic scarps through specific coeval sedimentation in Lesser Antilles: implication for seismic hazard. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 1755-1767.	3.6	22
65	MeMoVolc consensual document: a review of cross-disciplinary approaches to characterizing small explosive magmatic eruptions. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	22
66	Secular variation study from non-welded pyroclastic deposits from Montagne Pelée volcano, Martinique (West Indies). <i>Earth and Planetary Science Letters</i> , 2002, 201, 369-382.	4.4	20
67	A model for episodic degassing of an andesitic magma intrusion. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	20
68	Deep pre-eruptive storage of silicic magmas feeding Plinian and dome-forming eruptions of central and northern Dominica (Lesser Antilles) inferred from volatile contents of melt inclusions. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	17
69	The Evolution of La Grande Découverte (La Soufrière) Volcano, Guadeloupe (F.W.I.). <i>IAVCEI Proceedings in Volcanology</i> , 1989, , 86-109.	0.4	17
70	A new method for the determination of the setting temperature of pyroclastic deposits (example of Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	2.1	16
71	Field survey and numerical simulation of the 21 November 2004 tsunami at Les Saintes (Lesser Antilles). <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	16
72	Permeability and pressure measurements in Lesser Antilles submarine slides: Evidence for pressure-driven slow-slip failure. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 7986-8011.	3.4	16

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73	Revised chronostratigraphy of recurrent ignimbritic eruptions in Dominica (Lesser Antilles arc): Implications on the behavior of the magma plumbing system. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 343, 135-154.	2.1	16
74	Water and halogens in volcanic clasts: tracers of degassing processes during Plinian and dome-building eruptions. <i>Geological Society Special Publication</i> , 2003, 213, 63-79.	1.3	15
75	Petrological and experimental constraints on magma storage for large pumiceous eruptions in Dominica island (Lesser Antilles). <i>Bulletin of Volcanology</i> , 2019, 81, 1.	3.0	13
76	New insights into the recent eruptive and collapse history of Montagne Pelée (Lesser Antilles Arc) from offshore marine drilling site U1401A (IODP Expedition 340). <i>Journal of Volcanology and Geothermal Research</i> , 2020, 403, 107001.	2.1	12
77	Geomechanical Characterization of Submarine Volcano-Flank Sediments, Martinique, Lesser Antilles Arc. <i>Advances in Natural and Technological Hazards Research</i> , 2014, , 73-81.	1.1	11
78	A System Dynamics Approach to Understanding the deep Magma Plumbing System Beneath Dominica (Lesser Antilles). <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	11
79	The May 1902 eruptions of Mount Pelée: high-velocity directed blasts or column-collapse nuées ardentes?. <i>Journal of Volcanology and Geothermal Research</i> , 1990, 43, 359-364.	2.1	10
80	The 2009–2010 eruption of Gaua volcano (Vanuatu archipelago): Eruptive dynamics and unsuspected strong halogens source. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 63-75.	2.1	9
81	Time-window into the transcrustal plumbing system dynamics of Dominica (Lesser Antilles). <i>Scientific Reports</i> , 2021, 11, 11440.	3.3	8
82	Volcanological evolution of Montagne Pelée (Martinique): A textbook case of alternating Plinian and dome-forming eruptions. <i>Earth-Science Reviews</i> , 2021, 221, 103754.	9.1	8
83	Reply to comment on “Electrical Tomography of La Soufrière of Guadeloupe Volcano: Field experiments, 1D inversion and qualitative interpretation” by N. Linde and A. Revil. <i>Earth and Planetary Science Letters</i> , 2007, 258, 623-626.	4.4	6
84	Undrained Sediment Loading Key to Long-Runout Submarine Mass Movements: Evidence from the Caribbean Volcanic Arc. , 2012, , 417-428.		5
85	Synthesis: stratigraphy and age control for IODP Sites U1394, U1395, and U1396 offshore Montserrat in the Lesser Antilles. <i>Proceedings of the Integrated Ocean Drilling Program Integrated Ocean Drilling Program</i> , 0, , .	1.0	4
86	Evidence for an Active, Transcrustal Magma System in the Last 60 ka and Eruptive Degassing Budget (H_2O , CO_2 , S, F, Cl, Br): The Case of Dominica. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009050.	2.5	3
87	Br diffusion in phonolitic melts: Comparison with fluorine and chlorine diffusion. <i>American Mineralogist</i> , 2020, 105, 1639-1646.	1.9	3
88	Geochemical and textural constraints on degassing processes in sub-Plinian eruptions: case-study of the Greenish Pumice eruption of Mount Somma-Vesuvius. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	1
89	Syn-Eruptive Conditions of the AD 1530 Sub-Plinian Eruption of La Soufrière of Guadeloupe (Lesser) $T_j = 1078 \pm 14$ K / $O_{2,vol} = 0.18$	1.8	1