Raymond Af Cas

List of Publications by Year
in descending order

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63 papers	1,986 citations	201575 27 h-index	265120 42 g-index
63 all docs	63 docs citations	63 times ranked	1589 citing authors

#	Article	IF	Citations
1	Age constraints on recycled crustal and supracrustal sources of Archaean metasedimentary sequences, Eastern Goldfields Province, Western Australia: evidence from SHRIMP zircon dating. Tectonophysics, 2000, 322, 89-133.	0.9	144
2	The Colli Albani mafic caldera (Roma, Italy): Stratigraphy, structure and petrology. Journal of Volcanology and Geothermal Research, 2006, 155, 49-80.	0.8	136
3	The flow dynamics of an extremely large volume pyroclastic flow, the 2.08-Ma Cerro GalÃ¡n Ignimbrite, NW Argentina, and comparison with other flow types. Bulletin of Volcanology, 2011, 73, 1583-1609.	1.1	101
4	The late Quaternary Diego Hernandez Formation, Tenerife: Volcanology of a complex cycle of voluminous explosive phonolitic eruptions. Journal of Volcanology and Geothermal Research, 2007, 160, 59-85.	0.8	89
5	Two cycles of voluminous pyroclastic volcanism and sedimentation related to episodic granite emplacement during the late Archean: Eastern Yilgarn Craton, Western Australia. Precambrian Research, 2010, 183, 251-274.	1.2	63
6	The origin of a large (>3km) maar volcano by coalescence of multiple shallow craters: Lake Purrumbete maar, southeastern Australia. Journal of Volcanology and Geothermal Research, 2013, 254, 5-22.	0.8	61
7	Some major problems with existing models and terminology associated with kimberlite pipes from a volcanological perspective, and some suggestions. Journal of Volcanology and Geothermal Research, 2008, 174, 209-225.	0.8	58
8	A complex Quaternary ignimbrite-forming phonolitic eruption: the Poris Member of the Diego HernÃ¡ndez Formation (Tenerife, Canary Islands). Journal of Volcanology and Geothermal Research, 2002, 118, 99-130.	0.8	53
9	The fracture behaviour of volcanic glass and relevance to quench fragmentation during formation of hyaloclastite and phreatomagmatism. Earth-Science Reviews, 2015, 151, 79-116.	4.0	52
10	The influence of palaeotopography on facies architecture and pyroclastic flow processes of a lithic-rich ignimbrite in a high gradient setting: The Abrigo Ignimbrite, Tenerife, Canary Islands. Journal of Volcanology and Geothermal Research, 2006, 152, 273-315.	0.8	51
11	Lithic breccias in intermediate volume phonolitic ignimbrites, Tenerife (Canary Islands): constraints on pyroclastic flow depositional processes. Journal of Volcanology and Geothermal Research, 1998, 81, 269-296.	0.8	50
12	A reconnaissance of U-Pb zircon ages in the Cerro GalÃ¡n system, NW Argentina: Prolonged magma residence, crystal recycling, and crustal assimilation. Journal of Volcanology and Geothermal Research, 2011, 206, 136-147.	0.8	50
13	The eruption, pyroclastic flow behaviour, and caldera in-filling processes of the extremely large volume (>1290km3), intra- to extra-caldera, Permian Ora (Ignimbrite) Formation, Southern Alps, Italy. Journal of Volcanology and Geothermal Research, 2013, 265, 102-126.	0.8	47
14	Submarine Volcanism: a Review of the Constraints, Processes and Products, and Relevance to the Cabo de Gata Volcanic Succession. Italian Journal of Geosciences, 2014, 133, 362-377.	0.4	47
15	In-vent column collapse as an alternative model for massive volcaniclastic kimberlite emplacement: An example from the Fox kimberlite, Ekati Diamond Mine, NWT, Canada. Journal of Volcanology and Geothermal Research, 2008, 174, 90-102.	0.8	43
16	Three-dimensional potential field modelling of a multi-vent maar-diatreme â€" The Lake Coragulac maar, Newer Volcanics Province, southâ€eastern Australia. Journal of Volcanology and Geothermal Research, 2012, 235-236, 70-83.	0.8	42
17	The 0.57 Ma plinian eruption of the Granadilla Member, Tenerife (Canary Islands): an example of complexity in eruption dynamics and evolution. Journal of Volcanology and Geothermal Research, 2000, 103, 209-238.	0.8	40
18	A geophysical comparison of the diatremes of simple and complex maar volcanoes, Newer Volcanics Province, south-eastern Australia. Journal of Volcanology and Geothermal Research, 2014, 276, 64-81.	0.8	40

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19	Base surge deposits, eruption history, and depositional processes of a wet phreatomagmatic volcano in Central Anatolia (Cora Maar). Journal of Volcanology and Geothermal Research, 2007, 159, 198-209.	0.8	38
20	Contemporaneous ultramafic and felsic intrusive and extrusive magmatism in the Archaean Boorara Domain, Eastern Goldfields Superterrane, Western Australia, and its implications. Precambrian Research, 2004, 131, 283-304.	1.2	37
21	The Late Archaean Melita Complex, Eastern Goldfields, Western Australia: shallow submarine bimodal volcanism in a rifted arc environment. Journal of Volcanology and Geothermal Research, 2002, 115, 303-327.	0.8	34
22	Multiple Sulfur Isotope Analyses Support a Magmatic Model for the Volcanogenic Massive Sulfide Deposits of the Teutonic Bore Volcanic Complex, Yilgarn Craton, Western Australia. Economic Geology, 2015, 110, 1411-1423.	1.8	32
23	Reconstruction of an extensive Archaean dacitic submarine volcanic complex associated with the komatiite-hosted Mt Keith nickel deposit, Agnew-Wiluna Greenstone Belt, Yilgarn Craton, Western Australia. Precambrian Research, 2008, 161, 34-52.	1.2	31
24	Processes controlling the shape of ash particles: Results of statistical IPA. Journal of Volcanology and Geothermal Research, 2014, 288, 19-27.	0.8	31
25	Eruption processes and facies architecture of the Orion Central kimberlite volcanic complex, Fort Ã la Corne, Saskatchewan; kimberlite mass flow deposits in a sedimentary basin. Journal of Volcanology and Geothermal Research, 2008, 174, 152-170.	0.8	30
26	Volcanology and evolution of the Werribee Plains intraplate, basaltic lava flow-field, Newer Volcanics Province, southeast Australia. Australian Journal of Earth Sciences, 2005, 52, 59-78.	0.4	28
27	Characteristics and alteration origins of matrix minerals in volcaniclastic kimberlite of the Muskox pipe (Nunavut, Canada). Lithos, 2009, 112, 473-487.	0.6	28
28	Reconstruction of a kimberlite eruption, using an integrated volcanological, geochemical and numerical approach: A case study of the Fox Kimberlite, NWT, Canada. Journal of Volcanology and Geothermal Research, 2009, 179, 241-264.	0.8	27
29	The implications of spatter, pumice and lithic clast rich proximal co-ignimbrite lag breccias on the dynamics of caldera forming eruptions: The 151Âka Sutri eruption, Vico Volcano, Central Italy. Journal of Volcanology and Geothermal Research, 2009, 181, 1-24.	0.8	27
30	Difficulties in distinguishing coherent from fragmental kimberlite: A case study of the Muskox pipe (Northern Slave Province, Nunavut, Canada). Journal of Volcanology and Geothermal Research, 2008, 174, 139-151.	0.8	23
31	Chapter 3 The Use of Lithic Clast Distributions in Pyroclastic Deposits to Understand Pre- and Syn-Caldera Collapse Processes: A Case Study of the Abrigo Ignimbrite, Tenerife, Canary Islands. Developments in Volcanology, 2008, 10, 97-142.	0.5	22
32	A practical guide to terminology for kimberlite facies: A systematic progression from descriptive to genetic, including a pocket guide. Lithos, 2009, 112, 183-190.	0.6	22
33	Meandering flow of a pyroclastic density current documented by the anisotropy of magnetic susceptibility (AMS) in the quartz latite ignimbrite of the Pleistocene Monte Cimino volcanic centre (central Italy). Tectonophysics, 2009, 466, 64-78.	0.9	22
34	Stratigraphy, volcano tectonics and evolution of the Colli Albani volcanic ?eld. , 0, , 43-97.		22
35	Magnetic and chemical stratigraphy for the Werribee Plains basaltic lava flow-field, Newer Volcanics Province, southeast Australia: implications for eruption frequency. Australian Journal of Earth Sciences, 2005, 52, 41-57.	0.4	20
36	Tectonic and climate history influence the geochemistry of large-volume silicic magmas: New Î´18O data from the Central Andes with comparison to N America and Kamchatka. Journal of Volcanology and Geothermal Research, 2013, 262, 90-103.	0.8	20

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37	The origin of an unusual tuff ring of perlitic rhyolite pyroclasts: The last explosive phase of the Ramadas Volcanic Centre, Andean Puna, Salta, NW Argentina. Journal of Volcanology and Geothermal Research, 2009, 183, 1-16.	0.8	19
38	Variations in eruptive style and depositional processes associated with explosive, phonolitic composition, caldera-forming eruptions: The 151Âka Sutri eruption, Vico Caldera, central Italy. Journal of Volcanology and Geothermal Research, 2009, 184, 225-255.	0.8	19
39	The complex facies architecture and emplacement sequence of a Miocene submarine mega-pillow lava flow system, Muriwai, North Island, New Zealand. Journal of Volcanology and Geothermal Research, 2007, 160, 1-22.	0.8	18
40	Complex variations during a caldera-forming Plinian eruption, including precursor deposits, thick pumice fallout, co-ignimbrite breccias and climactic lag breccias: The 184 ka Lower Pumice 1 eruption sequence, Santorini, Greece. Journal of Volcanology and Geothermal Research, 2016, 324, 200-219.	0.8	18
41	Evolution and facies architecture of Paleogene Surtseyan volcanoes on Chatham Islands, New Zealand, Southwest Pacific Ocean. Journal of Volcanology and Geothermal Research, 2011, 202, 1-21.	0.8	17
42	Geology, mineralogy, and geochemistry of magnetite-associated Au mineralization of the ultramaficâ€“basalt greenstone hosted Crusader Complex, Agnew Gold Camp, Eastern Yilgarn Craton, Western Australia; a Late Archean intrusion-related Au deposit?. Ore Geology Reviews, 2014, 56, 53-72.	1.1	17
43	An Archaean submarine volcanic debris avalanche deposit, Yilgarn Craton, western Australia, with komatiite, basalt and dacite megablocks. Journal of Volcanology and Geothermal Research, 2004, 138, 111-126.	0.8	16
44	Syn-depositional substrate deformation produced by the shear force of a pyroclastic density current: An example from the Pleistocene ignimbrite at Monte Cimino, northern Lazio, Italy. Journal of Volcanology and Geothermal Research, 2006, 158, 307-320.	0.8	16
45	Using thermal remanent magnetisation (TRM) to distinguish block and ash flow and debris flow deposits, and to estimate their emplacement temperature: 1991â€“1995 lava dome eruption at Mt. Unzen Volcano, Japan. Journal of Volcanology and Geothermal Research, 2015, 303, 92-111.	0.8	15
46	The erupted volumes of tephra from maar volcanoes and estimates of their VEI magnitude: Examples from the late Cenozoic Newer Volcanics Province, south-eastern Australia. Journal of Volcanology and Geothermal Research, 2015, 301, 81-89.	0.8	15
47	2.7 Ga plume associated VHMS mineralization in the Eastern Goldfields Superterrane, Yilgarn Craton: Insights from the low temperature and shallow water, Ag-Zn-(Au) Nimbus deposit. Precambrian Research, 2017, 291, 119-142.	1.2	14
48	Spatial analysis of an intra-plate basaltic volcanic field in a compressional tectonic setting: South-eastern Australia. Journal of Volcanology and Geothermal Research, 2017, 335, 35-53.	0.8	14
49	Causes of complexity in a fallout dominated plinian eruption sequence: 312 ka Fasnia Member, Diego HernÃ¡ndez Formation, Tenerife, Spain. Journal of Volcanology and Geothermal Research, 2017, 345, 21-45.	0.8	14
50	A complex magma reservoir system for a large volume intra- to extra-caldera ignimbrite: Mineralogical and chemical architecture of the VEI8, Permian Ora ignimbrite (Italy). Journal of Volcanology and Geothermal Research, 2015, 306, 17-40.	0.8	13
51	Controls on volcanism at intraplate basaltic volcanic fields. Earth and Planetary Science Letters, 2017, 459, 36-47.	1.8	13
52	Tenerife, a complex end member of basaltic oceanic island volcanoes, with explosive polygenetic phonolitic calderas, and phonolitic-basaltic stratovolcanoes. Earth-Science Reviews, 2022, 230, 103990.	4.0	12
53	High magma decompression rates at the peak of a violent caldera-forming eruption (Lower Pumice 1) Tj ETQq1 1 0.784314 rgBT /Ove	1.1	11
54	The initiation and development of a caldera-forming Plinian eruption (172 ka Lower Pumice 2 eruption,) Tj ETQq0 0 0 rgBT /Overlock 10	0.8	10

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55	Reply to: Discussion by Brown et al. on â€œIn-vent column collapse as an alternative model for massive volcaniclastic kimberlite emplacement: An example from the Fox kimberlite, Ekati Diamond Mine, NWT, Canadaâ€• Journal of Volcanology and Geothermal Research, 2008, 178, 851-854.	0.8	9
56	Volcanological constraints on the post-emplacement zeolitisation of ignimbrites and geoarchaeological implications for Etruscan tomb construction (6thâ€“3rd century B.C) in the Tufo Rosso a Scorie Nere, Vico Caldera, Central Italy. Journal of Volcanology and Geothermal Research, 2009, 183, 183-200.	0.8	9
57	Subsurface structure of a large basaltic maar volcano examined using geologically constrained potential field modelling, Lake Purrumbete Maar, Newer Volcanics Province, southeastern Australia. Journal of Volcanology and Geothermal Research, 2015, 304, 142-159.	0.8	9
58	Emplacement origins of coarsely-crystalline mafic rocks hosted in greenstone belts: Examples from the 2.7â€¯Ga Yilgarn Craton, Western Australia. Precambrian Research, 2019, 324, 236-252.	1.2	7
59	The centenary of IAVCEI 1919â€“2019 and beyond: origins and evolution of the International Association of Volcanology and Chemistry of the Earthâ€™s Interior. Bulletin of Volcanology, 2022, 84, 15.	1.1	7
60	Were intercalated komatiites and dacites at the Black Swan nickel sulphide mine, Yilgarn Craton, Western Australia, emplaced as extrusive lavas or intrusive bodies? The significance of breccia textures and contact relationships. Precambrian Research, 2013, 229, 133-149.	1.2	6
61	Primary welding and crystallisation textures preserved in the intra-caldera ignimbrites of the Permian Ora Formation, northern Italy: implications for deposit thermal state and cooling history. Bulletin of Volcanology, 2014, 76, 1.	1.1	4
62	Reconstruction of a multi-vent kimberlite eruption from deposit and host rock characteristics: Jericho kimberlite, Nunavut, Canada. Journal of Volcanology and Geothermal Research, 2011, 200, 201-222.	0.8	3
63	Introduction to Special Issue of Bulletin of Volcanology on â€œAdvances in Kimberlite Geology and Volcanologyâ€• Bulletin of Volcanology, 2011, 73, 939-940.	1.1	0