

Robert A Duncan

List of Publications by Year in descending order

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56
papers

4,494
citations

117625

34
h-index

182427

51
g-index

56
all docs

56
docs citations

56
times ranked

3451
citing authors

#	ARTICLE	IF	CITATIONS
1	The Emperor Seamounts: Southward Motion of the Hawaiian Hotspot Plume in Earth's Mantle. <i>Science</i> , 2003, 301, 1064-1069.	12.6	375
2	Petrology and geochemistry of the Galápagos Islands: Portrait of a pathological mantle plume. <i>Journal of Geophysical Research</i> , 1993, 98, 19533-19563.	3.3	346
3	Evolution of the Walvis Ridge-Rio Grande Rise Hot Spot System: Implications for African and South American Plate motions over plumes. <i>Journal of Geophysical Research</i> , 1990, 95, 17475-17502.	3.3	340
4	Paleocene-Eocene Thermal Maximum and the Opening of the Northeast Atlantic. <i>Science</i> , 2007, 316, 587-589.	12.6	269
5	Timing and duration of volcanism in the North Atlantic Igneous Province: Implications for geodynamics and links to the Iceland hotspot. <i>Chemical Geology</i> , 2007, 241, 264-281.	3.3	188
6	Pacific Plate Motion Recorded by Linear Volcanic Chains. , 1985, , 89-121.		176
7	A captured island chain in the coast range of Oregon and Washington. <i>Journal of Geophysical Research</i> , 1982, 87, 10827-10837.	3.3	163
8	Early-Middle Jurassic Dolerite Dykes from Western Dronning Maud Land (Antarctica): Identifying Mantle Sources in the Karoo Large Igneous Province. <i>Journal of Petrology</i> , 2005, 46, 1489-1524.	2.8	136
9	Geochronology of age-progressive volcanism of the Oregon High Lava Plains: Implications for the plume interpretation of Yellowstone. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	130
10	Late Pleistocene geomagnetic excursion in Icelandic lavas: confirmation of the Laschamp excursion. <i>Earth and Planetary Science Letters</i> , 1990, 96, 443-457.	4.4	124
11	Migration of volcanism with time in the Marquesas Islands, French Polynesia. <i>Earth and Planetary Science Letters</i> , 1974, 21, 414-420.	4.4	120
12	Nicoya Peninsula, Costa Rica: A single suite of Caribbean oceanic plateau magmas. <i>Journal of Geophysical Research</i> , 1997, 102, 15507-15520.	3.3	118
13	High-resolution $^{40}\text{Ar}/^{39}\text{Ar}$ dating of the oldest oceanic basement basalts in the western Pacific basin. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, n/a-n/a.	2.5	112
14	Radiometric ages for basement rocks from the Emperor Seamounts, ODP Leg 197. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, .	2.5	108
15	Age progressive volcanism in the Tasmanid Seamounts. <i>Earth and Planetary Science Letters</i> , 1988, 89, 207-220.	4.4	107
16	Implications of a nonlinear $^{40}\text{Ar}/^{39}\text{Ar}$ age progression along the Louisville seamount trail for models of fixed and moving hot spots. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, .	2.5	107
17	Tectonomagmatic events during stretching and basin formation in the Labrador Sea and the Davis Strait: evidence from age and composition of Mesozoic to Palaeogene dyke swarms in West Greenland. <i>Journal of the Geological Society</i> , 2009, 166, 999-1012.	2.1	89
18	Pervasive mantle plume head heterogeneity: Evidence from the late Cretaceous Caribbean-Colombian oceanic plateau. <i>Journal of Geophysical Research</i> , 2002, 107, ECV 2-1-ECV 2-13.	3.3	79

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19	Geochemistry and Geochronology of the Society Islands: New Evidence for Deep Mantle Recycling. Geophysical Monograph Series, 0, , 183-206.	0.1	79
20	Trace element abundances in the Rock Canyon Anticline, Pueblo, Colorado, marine sedimentary section and their relationship to Caribbean plateau construction and oxygen anoxic event 2. Paleocceanography, 2005, 20, n/a-n/a.	3.0	73
21	Paleointensity of the Earth's magnetic field and ^{40}Ar dating of the Louchadiere volcanic flow (central) Tj ETQq1 1 0.784314.rgBT /Ov	4.0	71
22	Identifying impact events within the lunar cataclysm from ^{40}Ar – ^{39}Ar ages and compositions of Apollo 16 impact melt rocks. Geochimica Et Cosmochimica Acta, 2006, 70, 6032-6049.	3.9	71
23	Geology and petrogenesis of lavas from San Cristobal Island, Galapagos Archipelago. Bulletin of the Geological Society of America, 1986, 97, 555.	3.3	70
24	Tahiti: Geochemical evolution of a French Polynesian Volcano. Journal of Geophysical Research, 1994, 99, 24341-24357.	3.3	67
25	New $^{40}\text{Ar}/^{39}\text{Ar}$ age progression for the Louisville hot spot trail and implications for inter-hot spot motion. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	2.5	65
26	Geochronology of Galápagos seamounts. Journal of Geophysical Research, 1996, 101, 13689-13700.	3.3	58
27	Temporal variations in plate convergence and eruption rates in the Western Cascades, Oregon. Tectonics, 1987, 6, 197-209.	2.8	53
28	Glacial–interglacial sediment transport to the Meiji Drift, northwest Pacific Ocean: Evidence for timing of Beringian outwashing. Earth and Planetary Science Letters, 2009, 277, 64-72.	4.4	51
29	Evolution of shield-building and rejuvenescent volcanism of Mauritius. Journal of Volcanology and Geothermal Research, 2011, 207, 47-66.	2.1	51
30	Post-K/PB younger ^{40}Ar – ^{39}Ar ages of the Mandla lavas: Implications for the duration of the Deccan volcanism. Lithos, 2015, 224-225, 214-224.	1.4	51
31	Eocene to Miocene igneous activity in NE Greenland: northward younging of magmatism along the East Greenland margin. Journal of the Geological Society, 2014, 171, 539-553.	2.1	50
32	Reunion hotspot magma chemistry over the past 65 m.y.: Results from Leg 115 of the Ocean Drilling Program. Geology, 1989, 17, 934.	4.4	49
33	Age of Tertiary volcanic rocks on the West Greenland continental margin: volcanic evolution and event correlation to other parts of the North Atlantic Igneous Province. Geological Magazine, 2016, 153, 487-511.	1.5	49
34	Timing and composition of volcanic activity at Harrat Lunayyir, western Saudi Arabia. Journal of Volcanology and Geothermal Research, 2013, 260, 103-116.	2.1	43
35	Prolonged plume volcanism in the Caribbean Large Igneous Province: New insights from Curaçao and Haiti. Geochemistry, Geophysics, Geosystems, 2013, 14, 4241-4259.	2.5	41
36	Bimodal volcanism of the High Lava Plains and Northwestern Basin and Range of Oregon: Distribution and tectonic implications of age–progressive rhyolites. Geochemistry, Geophysics, Geosystems, 2013, 14, 2836-2857.	2.5	38

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37	The form, distribution and anisotropy of magnetic susceptibility of Jurassic dykes in H.U. Sverdrupfjella, Dronning Maud Land, Antarctica. Implications for dyke swarm emplacement. <i>Journal of Structural Geology</i> , 2008, 30, 1429-1447.	2.3	35
38	Seamount morphology in the Bowie and Cobb hot spot trails, Gulf of Alaska. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	29
39	Asthenosphere–lithosphere interactions in Western Saudi Arabia: Inferences from $^3\text{He}/^4\text{He}$ in xenoliths and lava flows from Harrat Hutaymah. <i>Lithos</i> , 2016, 248-251, 339-352.	1.4	29
40	Seismic and seafloor evidence for free gas, gas hydrates, and fluid seeps on the transform margin offshore Cape Mendocino. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	28
41	Nonlinear $^{40}\text{Ar}/^{39}\text{Ar}$ age systematics along the Gilbert Ridge and Tokelau Seamount Trail and the timing of the Hawaii-Emperor Bend. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, n/a-n/a.	2.5	27
42	The Life Cycle of Indian Ocean Hotspots. <i>Geophysical Monograph Series</i> , 0, , 91-103.	0.1	24
43	The Steens Basalt: Earliest lavas of the Columbia River Basalt Group. , 2013, , .		23
44	Geology of Santa Fe island: The oldest galapagos volcano. <i>Journal of Volcanology and Geothermal Research</i> , 1985, 26, 203-212.	2.1	22
45	Mass wasting, methane venting, and biological communities on the Mendocino transform fault. <i>Geology</i> , 2002, 30, 407.	4.4	21
46	Tracking fluvial response to climate change in the Pacific Northwest: a combined provenance approach using Ar and Nd isotopic systems on fine-grained sediments. <i>Quaternary Science Reviews</i> , 2008, 27, 497-517.	3.0	21
47	Timing and composition of continental volcanism at Harrat Hutaymah, western Saudi Arabia. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 313, 1-14.	2.1	20
48	Petrology of Peter I Åy (Peter I Island), West Antarctica. <i>Journal of Volcanology and Geothermal Research</i> , 1990, 44, 315-338.	2.1	18
49	The Influence of Mantle Plumes in Generation of Indian Oceanic Crust. <i>Geophysical Monograph Series</i> , 2013, , 57-89.	0.1	17
50	Stratigraphy and age of the Eocene IgtertivÅ Formation basalts, alkaline pebbles and sediments of the Kap Dalton Group in the graben at Kap Dalton, East Greenland. <i>Bulletin of the Geological Society of Denmark</i> , 2013, 61, 1-18.	1.1	17
51	16 m.y. of hotspot and nonhotspot volcanism on the Patton-Murray seamount platform, Gulf of Alaska. <i>Geology</i> , 1997, 25, 511.	4.4	12
52	Frequency and volumes of ignimbrite eruptions following the Late Neogene initiation of the Central Oregon High Cascades. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 339, 1-22.	2.1	12
53	The geology and age of Peter I Oy, Antarctica. <i>Polar Research</i> , 1991, 9, 89-98.	1.6	11
54	Uplift, rupture, and rollback of the Farallon slab reflected in volcanic perturbations along the Yellowstone adakite hot spot track. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 7009-7041.	3.4	7

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55	Erosion by rivers and transport pathways in the ocean: A provenance tool using ^{40}Ar - ^{39}Ar incremental heating on fine-grained sediment. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	4
56	31st Pacific Northwest Regional Meeting. <i>Eos</i> , 1985, 66, 23.	0.1	0