Mark K Reagan

List of Publications by Year
in descending order

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65 papers	5,043 citations	109321 35 h-index	123424 61 g-index
65 all docs	65 docs citations	65 times ranked	3239 citing authors

#	Article	IF	Citations
1	Foreâ€arc basalts and subduction initiation in the Izuâ€Boninâ€Mariana system. Geochemistry, Geophysics, Geosystems, 2010, 11, .	2.5	589
2	The timescales of subduction initiation and subsequent evolution of an oceanic island arc. Earth and Planetary Science Letters, 2011, 306, 229-240.	4.4	415
3	To understand subduction initiation, study forearc crust: To understand forearc crust, study ophiolites. Lithosphere, 2012, 4, 469-483.	1.4	352
4	Early stages in the evolution of Izuâ€“Bonin arc volcanism: New age, chemical, and isotopic constraints. Earth and Planetary Science Letters, 2006, 250, 385-401.	4.4	260
5	Early Pleistocene 40Ar/39Ar ages for Bapang Formation hominins, Central Jawa, Indonesia. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 4866-4871.	7.1	203
6	Heading down early on? Start of subduction on Earth. Geology, 2014, 42, 139-142.	4.4	167
7	Forearc ages reveal extensive short-lived and rapid seafloor spreading following subduction initiation. Earth and Planetary Science Letters, 2019, 506, 520-529.	4.4	148
8	Subduction initiation and ophiolite crust: new insights from IODP drilling. International Geology Review, 2017, 59, 1439-1450.	2.1	145
9	Identification, classification, and interpretation of boninites from Anthropocene to Eoarchean using Si-Mg-Ti systematics. , 2019, 15, 1008-1037.		121
10	The geology of the southern Mariana fore-arc crust: Implications for the scale of Eocene volcanism in the western Pacific. Earth and Planetary Science Letters, 2013, 380, 41-51.	4.4	116
11	Magmatic Response to Subduction Initiation: Part 1. Foreâ€arc Basalts of the Izuâ€Bonin Arc From IODP Expedition 352. Geochemistry, Geophysics, Geosystems, 2019, 20, 314-338.	2.5	113
12	Geology and geochemistry of early arc-volcanic rocks from Guam. Bulletin of the Geological Society of America, 1984, 95, 701.	3.3	111
13	Speleothem Evidence for Changes in Indian Summer Monsoon Precipitation over the Last â^¼2300 Years. Quaternary Research, 2000, 53, 196-202.	1.7	108
14	Uranium series and beryllium isotope evidence for an extended history of subduction modification of the mantle below Nicaragua. Geochimica Et Cosmochimica Acta, 1994, 58, 4199-4212.	3.9	107
15	A serpentinite-hosted ecosystem in the Southern Mariana Forearc. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 2831-2835.	7.1	107
16	Temporal evolution of mantle wedge oxygen fugacity during subduction initiation. Geology, 2015, 43, 775-778.	4.4	106
17	Changes in magma composition at Arenal volcano, Costa Rica, 1968?1985: Real-time monitoring of open-system differentiation. Bulletin of Volcanology, 1987, 49, 415-434.	3.0	101
18	Dated co-occurrence of Homo erectus and Gigantopithecus from Tham Khuyen Cave, Vietnam.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 3016-3020.	7.1	99

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19	Oxygen isotope constraints on the sources of Central American arc lavas. Geochemistry, Geophysics, Geosystems, 2005, 6, n/a-n/a.	2.5	95
20	Radiogenic isotopes document the start of subduction in the Western Pacific. Earth and Planetary Science Letters, 2019, 518, 197-210.	4.4	90
21	Petrogenesis of Volcanic Rocks from Saipan and Rota, Mariana Islands, and Implications for the Evolution of Nascent Island Arcs. Journal of Petrology, 2008, 49, 441-464.	2.8	88
22	Evidence for increased cool season moisture during the middle Holocene. Geology, 1999, 27, 815.	4.4	82
23	Petrology and geochemistry of the island of Sarigan in the Mariana arc; calc-alkaline volcanism in an oceanic setting. Contributions To Mineralogy and Petrology, 1981, 77, 337-354.	3.1	72
24	238U- and 232Th-series chronology of phonolite fractionation at Mount Erebus, Antarctica. Geochimica Et Cosmochimica Acta, 1992, 56, 1401-1407.	3.9	72
25	Rapid subduction initiation and magmatism in the Western Pacific driven by internal vertical forces. Nature Communications, 2020, 11, 1874.	12.8	66
26	Temporal variation of isotope and rare earth element abundances in volcanic rocks from Guam: implications for the evolution of the Mariana Arc. Contributions To Mineralogy and Petrology, 1987, 97, 497-508.	3.1	63
27	Vapor transfer prior to the October 2004 eruption of Mount St. Helens, Washington. Geology, 2007, 35, 231.	4.4	62
28	(231Pa/235U)-(230Th/238U) of young mafic volcanic rocks from Nicaragua and Costa Rica and the influence of flux melting on U-series systematics of arc lavas. Geochimica Et Cosmochimica Acta, 2002, 66, 4287-4309.	3.9	60
29	The role of basalt replenishment in the generation of basaltic andesites of the ongoing activity at Arenal volcano, Costa Rica: evidence from clinopyroxene and spinel. Bulletin of Volcanology, 2002, 64, 316-327.	3.0	60
30	Multiple subduction components in the mantle wedge: Evidence from eruptive centers in the Central Southern volcanic zone, Chile. Geology, 2002, 30, 199.	4.4	56
31	Magmatic Response to Subduction Initiation, Part II: Boninites and Related Rocks of the Izuâ€Bonin Arc From IODP Expedition 352. Geochemistry, Geophysics, Geosystems, 2021, 22, .	2.5	52
32	Speleothem evidence for Holocene fluctuations of the prairie-forest ecotone, north-central USA. Holocene, 1999, 9, 671-676.	1.7	51
33	Rapid time scales of basalt to andesite differentiation at Anatahan volcano, Mariana Islands. Journal of Volcanology and Geothermal Research, 2005, 146, 171-183.	2.1	47
34	Chronology of volcanic events in the eastern Philippine Sea. Geophysical Monograph Series, 1983, , 349-359.	0.1	43
35	How to Create New Subduction Zones: A Global Perspective. Oceanography, 2019, 32, 160-174.	1.0	41
36	Timescales of degassing and crystallization implied by 210Poâ€“210Pbâ€“226Ra disequilibria for andesitic lavas erupted from Arenal volcano. Journal of Volcanology and Geothermal Research, 2006, 157, 135-146.	2.1	39

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37	Speleothem carbon isotopic records of Holocene environments in the Ozark Highlands, USA. Quaternary International, 2000, 67, 21-27.	1.5	36
38	Geodynamic evolution of a forearc rift in the southernmost <scp>M</scp>ariana <scp>A</scp>rc. Island Arc, 2013, 22, 453-476.	1.1	36
39	Closed- to open-system differentiation at Arenal volcano (1968â€“2003). Journal of Volcanology and Geothermal Research, 2006, 157, 75-93.	2.1	35
40	Trace element and U-series systematics for 1963-1965 tephras from IrazÃº Volcano, Costa Rica: implications for magma generation processes and transit times. Geochimica Et Cosmochimica Acta, 1998, 62, 2689-2699.	3.9	31
41	Integrating Stalagmite, Vertebrate, and Pollen Sequences to Investigate Holocene Vegetation and Climate Change in the Southern Midwestern United States. Quaternary Research, 1999, 52, 381-387.	1.7	31
42	Landscape development preceding Homo erectus immigration into Central Java, Indonesia: the Sangiran Formation Lower Lahar. Palaeogeography, Palaeoclimatology, Palaeoecology, 2004, 206, 115-131.	2.3	30
43	A 210Pbâ€“226Raâ€“230Thâ€“238U study of Klyuchevskoy and Bezymianny volcanoes, Kamchatka. Geochimica Et Cosmochimica Acta, 2007, 71, 4771-4785.	3.9	29
44	238U- and 232Th-decay series constraints on the timescales of crystal fractionation to produce the phonolite erupted in 2004 near Tristan da Cunha, South Atlantic Ocean. Geochimica Et Cosmochimica Acta, 2008, 72, 4367-4378.	3.9	27
45	Melt generation beneath Arctic Ridges: Implications from U decay series disequilibria in the Mohns, Knipovich, and Gakkel Ridges. Geochimica Et Cosmochimica Acta, 2014, 127, 140-170.	3.9	27
46	Mineral compositions and thermobarometry of basalts and boninites recovered during IODP Expedition 352 to the Bonin forearc. American Mineralogist, 2020, 105, 1490-1507.	1.9	26
47	Gas transport model for the magmatic system at Mount Pinatubo, Philippines: Insights from (210Pb)/(226Ra). Journal of Volcanology and Geothermal Research, 2009, 181, 124-140.	2.1	23
48	Geochemical and isotopic study of a plutonic suite and related early volcanic sequences in the southern Mariana forearc. Geochemistry, Geophysics, Geosystems, 2014, 15, 589-604.	2.5	22
49	Magma Source Evolution Following Subduction Initiation: Evidence From the Element Concentrations, Stable Isotope Ratios, and Water Contents of Volcanic Glasses From the Bonin Forearc (IODP Expedition 352). Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009054.	2.5	22
50	Origin of K2O-SiO2 trends in volcanoes of the Mariana arc. Geology, 1983, 11, 67.	4.4	21
51	Sill to surface: Linking young off-axis volcanism with subsurface melt at the overlapping spreading center at 9Â°03â€²N East Pacific Rise. Earth and Planetary Science Letters, 2013, 369-370, 59-70.	4.4	20
52	Timescales of magma ascent and degassing and the role of crustal assimilation at Merapi volcano (2006â€“2010), Indonesia: Constraints from uranium-series and radiogenic isotopic compositions. Geochimica Et Cosmochimica Acta, 2018, 222, 34-52.	3.9	19
53	The application of abundance sensitivity filters to the precise and accurate measurement of uranium series nuclides by plasma mass spectrometry. International Journal of Mass Spectrometry, 2019, 435, 321-332.	1.5	19
54	Timescales of magmatic processes and eruption ages of the Nyiragongo volcanics from 238U-230Th-226Ra-210Pb disequilibria. Earth and Planetary Science Letters, 2009, 288, 149-157.	4.4	15

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55	Covariation of Slab Tracers, Volatiles, and Oxidation During Subduction Initiation. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009823.	2.5	15
56	210Pb-226Ra disequilibria in young gas-laden magmas. Scientific Reports, 2017, 7, 45186.	3.3	9
57	Geodynamic implications of crustal lithologies from the southeast Mariana forearc. , 2018, 14, 1-22.		8
58	238Uâ€“230Thâ€“226Raâ€“210Pbâ€“210Po Disequilibria Constraints on Magma Generation, Ascent, and Degassing during the Ongoing Eruption of KÄ«lauea. Journal of Petrology, 2017, 58, 1199-1226.	2.8	7
59	Timescales of degassing and conduit dynamics inferred from 210Pbâ€“226Ra disequilibria in VolcÃ¡n de Colima 1998â€“2010 andesitic magmas. Geological Society Special Publication, 2015, 422, 189-206.	1.3	6
60	Volatile behaviour in the 1995-2010 eruption of the SoufriÃ¨re Hills Volcano, Montserrat recorded by U-series disequilibria in mafic enclaves and andesite host. Earth and Planetary Science Letters, 2019, 524, 115730.	4.4	6
61	Postmagmatic Tectonic Evolution of the Outer Izuâ€Bonin Forearc Revealed by Sediment Basin Structure and Vein Microstructure Analysis: Implications for a 15 Ma Hiatus Between Pacific Plate Subduction Initiation and Forearc Extension. Geochemistry, Geophysics, Geosystems, 2019, 20, 5867-5895.	2.5	6
62	Origins of ²¹⁰Pbâ€²²⁶Ra disequilibria in basalts: New insights from the 1978 Asal Rift eruption. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	5
63	U-series histories of magmatic volatile phase and enclave development at SoufriÃ¨re Hills Volcano, Montserrat. Chemical Geology, 2021, 559, 119957.	3.3	2
64	FORE-ARC BASALT TO BONINITE MAGMATISM: CHARACTERIZING THE TRANSITION FROM DECOMPRESSION TO FLUID FLUX MELTING AFTER SUBDUCTION INITIATION. , 2017, , .		2
65	An Essential Quaternary Clock for Earth System Sciences: An Overview of the Theory and Applications of U and Th Decay Series Isotopes for the Dating of Young Igneous and Sedimentary Rocks. , 2021, , 76-100.		1