

Mark K Reagan

List of Publications by Year in descending order

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3239
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#	ARTICLE	IF	CITATIONS
1	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). <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009054.	2.5	22
2	Magmatic Response to Subduction Initiation, Part II: Boninites and Related Rocks of the Izu-Bonin Arc From IODP Expedition 352. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, .	2.5	52
3	U-series histories of magmatic volatile phase and enclave development at Soufrière Hills Volcano, Montserrat. <i>Chemical Geology</i> , 2021, 559, 119957.	3.3	2
4	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
5	Covariation of Slab Tracers, Volatiles, and Oxidation During Subduction Initiation. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009823.	2.5	15
6	Mineral compositions and thermobarometry of basalts and boninites recovered during IODP Expedition 352 to the Bonin forearc. <i>American Mineralogist</i> , 2020, 105, 1490-1507.	1.9	26
7	Rapid subduction initiation and magmatism in the Western Pacific driven by internal vertical forces. <i>Nature Communications</i> , 2020, 11, 1874.	12.8	66
8	Volatile behaviour in the 1995-2010 eruption of the Soufrière Hills Volcano, Montserrat recorded by U-series disequilibria in mafic enclaves and andesite host. <i>Earth and Planetary Science Letters</i> , 2019, 524, 115730.	4.4	6
9	Identification, classification, and interpretation of boninites from Anthropocene to Eoarchean using Si-Mg-Ti systematics. , 2019, 15, 1008-1037.		121
10	Radiogenic isotopes document the start of subduction in the Western Pacific. <i>Earth and Planetary Science Letters</i> , 2019, 518, 197-210.	4.4	90
11	How to Create New Subduction Zones: A Global Perspective. <i>Oceanography</i> , 2019, 32, 160-174.	1.0	41
12	Postmagmatic Tectonic Evolution of the Outer Izu-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. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 5867-5895.	2.5	6
13	Magmatic Response to Subduction Initiation: Part 1. Forearc Basalts of the Izu-Bonin Arc From IODP Expedition 352. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 314-338.	2.5	113
14	The application of abundance sensitivity filters to the precise and accurate measurement of uranium series nuclides by plasma mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2019, 435, 321-332.	1.5	19
15	Forearc ages reveal extensive short-lived and rapid seafloor spreading following subduction initiation. <i>Earth and Planetary Science Letters</i> , 2019, 506, 520-529.	4.4	148
16	Timescales of magma ascent and degassing and the role of crustal assimilation at Merapi volcano (2006-2010), Indonesia: Constraints from uranium-series and radiogenic isotopic compositions. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 34-52.	3.9	19
17	Geodynamic implications of crustal lithologies from the southeast Mariana forearc. , 2018, 14, 1-22.		8
18	Subduction initiation and ophiolite crust: new insights from IODP drilling. <i>International Geology Review</i> , 2017, 59, 1439-1450.	2.1	145

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19	210Pb-226Ra disequilibria in young gas-laden magmas. <i>Scientific Reports</i> , 2017, 7, 45186.	3.3	9
20	^{238}U - ^{230}Th - ^{226}Ra - ^{210}Pb - ^{210}Po Disequilibria Constraints on Magma Generation, Ascent, and Degassing during the Ongoing Eruption of Kilauea. <i>Journal of Petrology</i> , 2017, 58, 1199-1226.	2.8	7
21	FORE-ARC BASALT TO BONINITE MAGMATISM: CHARACTERIZING THE TRANSITION FROM DECOMPRESSION TO FLUID FLUX MELTING AFTER SUBDUCTION INITIATION. , 2017, , .		2
22	Temporal evolution of mantle wedge oxygen fugacity during subduction initiation. <i>Geology</i> , 2015, 43, 775-778.	4.4	106
23	Timescales of degassing and conduit dynamics inferred from ^{210}Pb - ^{226}Ra disequilibria in Volcán de Colima 1998-2010 andesitic magmas. <i>Geological Society Special Publication</i> , 2015, 422, 189-206.	1.3	6
24	Melt generation beneath Arctic Ridges: Implications from U decay series disequilibria in the Mohns, Knipovich, and Gakkel Ridges. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 127, 140-170.	3.9	27
25	Heading down early on? Start of subduction on Earth. <i>Geology</i> , 2014, 42, 139-142.	4.4	167
26	Geochemical and isotopic study of a plutonic suite and related early volcanic sequences in the southern Mariana forearc. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 589-604.	2.5	22
27	Geodynamic evolution of a forearc rift in the southernmost Mariana Island Arc, 2013, 22, 453-476.	1.1	36
28	The geology of the southern Mariana fore-arc crust: Implications for the scale of Eocene volcanism in the western Pacific. <i>Earth and Planetary Science Letters</i> , 2013, 380, 41-51.	4.4	116
29	Sill to surface: Linking young off-axis volcanism with subsurface melt at the overlapping spreading center at 9°03'N East Pacific Rise. <i>Earth and Planetary Science Letters</i> , 2013, 369-370, 59-70.	4.4	20
30	A serpentinite-hosted ecosystem in the Southern Mariana Forearc. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 2831-2835.	7.1	107
31	To understand subduction initiation, study forearc crust: To understand forearc crust, study ophiolites. <i>Lithosphere</i> , 2012, 4, 469-483.	1.4	352
32	Origins of ^{210}Pb - ^{226}Ra disequilibria in basalts: New insights from the 1978 Asal Rift eruption. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	5
33	The timescales of subduction initiation and subsequent evolution of an oceanic island arc. <i>Earth and Planetary Science Letters</i> , 2011, 306, 229-240.	4.4	415
34	Forearc basalts and subduction initiation in the Izu-Bonin-Mariana system. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	589
35	Gas transport model for the magmatic system at Mount Pinatubo, Philippines: Insights from (^{210}Pb)/(^{226}Ra). <i>Journal of Volcanology and Geothermal Research</i> , 2009, 181, 124-140.	2.1	23
36	Timescales of magmatic processes and eruption ages of the Nyiragongo volcanics from ^{238}U - ^{230}Th - ^{226}Ra - ^{210}Pb disequilibria. <i>Earth and Planetary Science Letters</i> , 2009, 288, 149-157.	4.4	15

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37	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. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4367-4378.	3.9	27
38	Petrogenesis of Volcanic Rocks from Saipan and Rota, Mariana Islands, and Implications for the Evolution of Nascent Island Arcs. <i>Journal of Petrology</i> , 2008, 49, 441-464.	2.8	88
39	Vapor transfer prior to the October 2004 eruption of Mount St. Helens, Washington. <i>Geology</i> , 2007, 35, 231.	4.4	62
40	A 210Pb-226Ra-230Th-238U study of Klyuchevskoy and Bezymianny volcanoes, Kamchatka. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4771-4785.	3.9	29
41	Early stages in the evolution of Izu-Bonin arc volcanism: New age, chemical, and isotopic constraints. <i>Earth and Planetary Science Letters</i> , 2006, 250, 385-401.	4.4	260
42	Timescales of degassing and crystallization implied by 210Po-210Pb-226Ra disequilibria for andesitic lavas erupted from Arenal volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 157, 135-146.	2.1	39
43	Closed- to open-system differentiation at Arenal volcano (1968-2003). <i>Journal of Volcanology and Geothermal Research</i> , 2006, 157, 75-93.	2.1	35
44	Rapid time scales of basalt to andesite differentiation at Anatahan volcano, Mariana Islands. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 146, 171-183.	2.1	47
45	Oxygen isotope constraints on the sources of Central American arc lavas. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a.	2.5	95
46	Landscape development preceding Homo erectus immigration into Central Java, Indonesia: the Sangiran Formation Lower Lahar. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2004, 206, 115-131.	2.3	30
47	Multiple subduction components in the mantle wedge: Evidence from eruptive centers in the Central Southern volcanic zone, Chile. <i>Geology</i> , 2002, 30, 199.	4.4	56
48	(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. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 4287-4309.	3.9	60
49	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. <i>Bulletin of Volcanology</i> , 2002, 64, 316-327.	3.0	60
50	Early Pleistocene 40Ar/39Ar ages for Bapang Formation hominins, Central Jawa, Indonesia. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 4866-4871.	7.1	203
51	Speleothem Evidence for Changes in Indian Summer Monsoon Precipitation over the Last 1/4 2300 Years. <i>Quaternary Research</i> , 2000, 53, 196-202.	1.7	108
52	Speleothem carbon isotopic records of Holocene environments in the Ozark Highlands, USA. <i>Quaternary International</i> , 2000, 67, 21-27.	1.5	36
53	Evidence for increased cool season moisture during the middle Holocene. <i>Geology</i> , 1999, 27, 815.	4.4	82
54	Speleothem evidence for Holocene fluctuations of the prairie-forest ecotone, north-central USA. <i>Holocene</i> , 1999, 9, 671-676.	1.7	51

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55	Integrating Stalagmite, Vertebrate, and Pollen Sequences to Investigate Holocene Vegetation and Climate Change in the Southern Midwestern United States. <i>Quaternary Research</i> , 1999, 52, 381-387.	1.7	31
56	Trace element and U-series systematics for 1963-1965 tephra from Irazu Volcano, Costa Rica: implications for magma generation processes and transit times. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 2689-2699.	3.9	31
57	Dated co-occurrence of <i>Homo erectus</i> and <i>Gigantopithecus</i> from Tham Khuyen Cave, Vietnam. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1996, 93, 3016-3020.	7.1	99
58	Uranium series and beryllium isotope evidence for an extended history of subduction modification of the mantle below Nicaragua. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 4199-4212.	3.9	107
59	²³⁸ U- and ²³² Th-series chronology of phonolite fractionation at Mount Erebus, Antarctica. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 1401-1407.	3.9	72
60	Temporal variation of isotope and rare earth element abundances in volcanic rocks from Guam: implications for the evolution of the Mariana Arc. <i>Contributions To Mineralogy and Petrology</i> , 1987, 97, 497-508.	3.1	63
61	Changes in magma composition at Arenal volcano, Costa Rica, 1968-1985: Real-time monitoring of open-system differentiation. <i>Bulletin of Volcanology</i> , 1987, 49, 415-434.	3.0	101
62	Geology and geochemistry of early arc-volcanic rocks from Guam. <i>Bulletin of the Geological Society of America</i> , 1984, 95, 701.	3.3	111
63	Origin of K ₂ O-SiO ₂ trends in volcanoes of the Mariana arc. <i>Geology</i> , 1983, 11, 67.	4.4	21
64	Chronology of volcanic events in the eastern Philippine Sea. <i>Geophysical Monograph Series</i> , 1983, , 349-359.	0.1	43
65	Petrology and geochemistry of the island of Sarigan in the Mariana arc; calc-alkaline volcanism in an oceanic setting. <i>Contributions To Mineralogy and Petrology</i> , 1981, 77, 337-354.	3.1	72