

# Adam J R Kent

## List of Publications by Year in descending order

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110  
papers

6,363  
citations

57719

44  
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69214

77  
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114  
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114  
docs citations

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times ranked

4590  
citing authors

#	ARTICLE	IF	CITATIONS
1	MPI-DING reference glasses for in situ microanalysis: New reference values for element concentrations and isotope ratios. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	563
2	Rapid remobilization of magmatic crystals kept in cold storage. <i>Nature</i> , 2014, 506, 480-483.	13.7	370
3	Near-solidus Melting of the Shallow Upper Mantle: Partial Melting Experiments on Depleted Peridotite. <i>Journal of Petrology</i> , 2003, 44, 1163-1191.	1.1	235
4	Preferential eruption of andesitic magmas through recharge filtering. <i>Nature Geoscience</i> , 2010, 3, 631-636.	5.4	228
5	ZIRCON COMPOSITIONAL EVIDENCE FOR SULFUR-DEGASSING FROM ORE-FORMING ARC MAGMAS. <i>Economic Geology</i> , 2015, 110, 241-251.	1.8	214
6	Melt Inclusions in Basaltic and Related Volcanic Rocks. <i>Reviews in Mineralogy and Geochemistry</i> , 2008, 69, 273-331.	2.2	174
7	Chlorine in submarine glasses from the Lau Basin: seawater contamination and constraints on the composition of slab-derived fluids. <i>Earth and Planetary Science Letters</i> , 2002, 202, 361-377.	1.8	142
8	Magmatic volatile contents and degassing-induced crystallization at Volc�n Jorullo, Mexico: Implications for melt evolution and the plumbing systems of monogenetic volcanoes. <i>Earth and Planetary Science Letters</i> , 2008, 269, 478-487.	1.8	139
9	Rapid cooling and cold storage in a silicic magma reservoir recorded in individual crystals. <i>Science</i> , 2017, 356, 1154-1156.	6.0	131
10	Subduction-related Volatile Recycling and Magma Generation beneath Central Mexico: Insights from Melt Inclusions, Oxygen Isotopes and Geodynamic Models. <i>Journal of Petrology</i> , 2009, 50, 1729-1764.	1.1	128
11	Intensity of quartz cathodoluminescence and trace-element content in quartz from the porphyry copper deposit at Butte, Montana. <i>American Mineralogist</i> , 2006, 91, 1300-1312.	0.9	126
12	Subduction Influence on Oxygen Fugacity and Trace and Volatile Elements in Basalts Across the Cascade Volcanic Arc. <i>Journal of Petrology</i> , 2009, 50, 61-91.	1.1	124
13	Volatiles in High-K Magmas from the Western Trans-Mexican Volcanic Belt: Evidence for Fluid Fluxing and Extreme Enrichment of the Mantle Wedge by Subduction Processes. <i>Journal of Petrology</i> , 2008, 49, 1589-1618.	1.1	119
14	Quantitative Analysis of Flow Processes in a Sand Using Synchrotron-Based X-ray Microtomography. <i>Vadose Zone Journal</i> , 2005, 4, 112-126.	1.3	117
15	Assimilation of seawater-derived components in an oceanic volcano: evidence from matrix glasses and glass inclusions from Loihi seamount, Hawaii. <i>Chemical Geology</i> , 1999, 156, 299-319.	1.4	114
16	Across-arc geochemical trends in the Izu-Bonin arc: Contributions from the subducting slab, revisited. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	113
17	Mineral/melt partitioning of trace elements during hydrous peridotite partial melting. <i>Contributions To Mineralogy and Petrology</i> , 2003, 145, 391-405.	1.2	107
18	Origin of cross-arc geochemical variation in Quaternary lavas from the northern Izu arc: Using a quantitative mass balance approach to identify mantle sources and mantle wedge processes. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	99

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19	Widespread assimilation of a seawater-derived component at Loihi Seamount, Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2749-2761.	1.6	96
20	Anhydrite-bearing andesite and dacite as a source for sulfur in magmatic-hydrothermal mineral deposits. <i>Geology</i> , 2008, 36, 719.	2.0	91
21	The Geochemistry of the Arabian Lithospheric Mantle—a Source for Intraplate Volcanism?. <i>Journal of Petrology</i> , 2007, 48, 1495-1512.	1.1	88
22	Insights into tide-related variability at seafloor hydrothermal vents from time-series temperature measurements. <i>Earth and Planetary Science Letters</i> , 2002, 202, 693-707.	1.8	84
23	Contrasting behaviours of CO <sub>2</sub> , S, H <sub>2</sub> O and halogens (F, Cl, Br, and I) in enriched-mantle melts from Pitcairn and Society seamounts. <i>Chemical Geology</i> , 2014, 370, 69-81.	1.4	80
24	Volatile contents of mafic magmas from cinder cones in the Central Oregon High Cascades: Implications for magma formation and mantle conditions in a hot arc. <i>Earth and Planetary Science Letters</i> , 2010, 298, 153-161.	1.8	77
25	<sup>40</sup> Ar- <sup>39</sup> Ar and U-Pb age constraints on the timing of gold mineralization in the Kalgoorlie gold field, Western Australia. <i>Economic Geology</i> , 1995, 90, 845-859.	1.8	76
26	Mantle heterogeneity during the formation of the North Atlantic Igneous Province: Constraints from trace element and Sr-Nd-Os-O isotope systematics of Baffin Island picrites. <i>Geochemistry, Geophysics, Geosystems</i> , 2004, 5, n/a-n/a.	1.0	72
27	Melt inclusions from Marianas arc lavas: implications for the composition and formation of island arc magmas. <i>Chemical Geology</i> , 2002, 183, 263-286.	1.4	71
28	Isotope Dilution MC-ICP-MS Rare Earth Element Analysis of Geochemical Reference Materials NIST SRM 610, NIST SRM 612, NIST SRM 614, BHVO-2G, BHVO-2, BCR-2G, JB-2, WS-E, W-2, AGV-1 and AGV-2. <i>Geostandards and Geoanalytical Research</i> , 2004, 28, 417-429.	2.0	71
29	Magma reservoir response to transient recharge events: The case of Santorini volcano (Greece). <i>Geology</i> , 2016, 44, 23-26.	2.0	64
30	Historic magmatism on the Reykjanes Peninsula, Iceland: a snap-shot of melt generation at a ridge segment. <i>Contributions To Mineralogy and Petrology</i> , 2009, 157, 359-382.	1.2	63
31	Contamination and melt aggregation processes in continental flood basalts: constraints from melt inclusions in Oligocene basalts from Yemen. <i>Earth and Planetary Science Letters</i> , 2002, 202, 577-594.	1.8	62
32	The Prinsen af Wales Bjerger Formation Lavas, East Greenland: the Transition from Tholeiitic to Alkalic Magmatism during Palaeogene Continental Break-up. <i>Journal of Petrology</i> , 2003, 44, 279-304.	1.1	62
33	Vapor transfer prior to the October 2004 eruption of Mount St. Helens, Washington. <i>Geology</i> , 2007, 35, 231.	2.0	62
34	Eocene extension in Idaho generated massive sediment floods into the Franciscan trench and into the Tye, Great Valley, and Green River basins. <i>Geology</i> , 2013, 41, 187-190.	2.0	60
35	Hydrogen, lithium, and boron in mantle-derived olivine: The role of coupled substitutions. <i>American Mineralogist</i> , 2002, 87, 1432-1436.	0.9	58
36	Archean gold mineralization synchronous with the final stages of cratonization, Yilgarn Craton, Western Australia. <i>Geology</i> , 1996, 24, 879.	2.0	57

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37	Determination of sulfur speciation and oxidation state of olivine hosted melt inclusions. <i>Chemical Geology</i> , 2007, 236, 303-322.	1.4	57
38	Correlation of Indian Ocean tephra to individual Oligocene silicic eruptions from Afro-Arabian flood volcanism. <i>Earth and Planetary Science Letters</i> , 2003, 211, 311-327.	1.8	56
39	Revisiting the compositions and volatile contents of olivine-hosted melt inclusions from the Mount Shasta region: implications for the formation of high-Mg andesites. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 109-132.	1.2	51
40	Evidence for adiabatic decompression melting in the Southern Mariana Arc from high-Mg lavas and melt inclusions. <i>Contributions To Mineralogy and Petrology</i> , 2006, 152, 201-221.	1.2	50
41	In-situ analysis of Pb isotope ratios using laser ablation MC-ICP-MS: Controls on precision and accuracy and comparison between Faraday cup and ion counting systems. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 968.	1.6	48
42	$\delta^{37}\text{Cl}$ systematics of a backarc spreading system: The Lau Basin. <i>Geology</i> , 2009, 37, 427-430.	2.0	47
43	Production of barium and light rare earth element oxides during LA-ICP-MS microanalysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 1256.	1.6	45
44	Variable initial Pb isotopic compositions of rocks associated with the UG2 chromitite, eastern Bushveld Complex. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5514-5527.	1.6	44
45	Sources of elemental fractionation and uncertainty during the analysis of semi-volatile metals in silicate glasses using LA-ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2012, 27, 1502.	1.6	44
46	The temperature of formation of carbonate in martian meteorite ALH84001: constraints from cation diffusion. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 311-321.	1.6	43
47	Constraints on the timing of lode-gold mineralisation in the Wiluna greenstone belt, Yilgarn Craton, Western Australia. <i>Australian Journal of Earth Sciences</i> , 1996, 43, 573-588.	0.4	42
48	The petrogenesis of plagioclase-phyric basalts at mid-ocean ridges. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 3282-3296.	1.0	42
49	Prolonged plume volcanism in the Caribbean Large Igneous Province: New insights from Curaçao and Haiti. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4241-4259.	1.0	41
50	Magma transport and olivine crystallization depths in Kilauea's east rift zone inferred from experimentally rehomogenized melt inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 185, 232-250.	1.6	39
51	Sm-Nd systematics of hydrothermal scheelite from the Mount Charlotte Mine, Kalgoorlie, Western Australia; an isotopic link between gold mineralization and komatiites. <i>Economic Geology</i> , 1995, 90, 2329-2335.	1.8	37
52	Controls on long-term low explosivity at andesitic arc volcanoes: Insights from Mount Hood, Oregon. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 219-220, 1-14.	0.8	37
53	Metasomatic alteration associated with regional metamorphism: an example from the Willyama Supergroup, South Australia. <i>Lithos</i> , 2000, 54, 33-62.	0.6	36
54	Lead Isotope Homogeneity of NIST SRM 610 and 612 Glass Reference Materials: Constraints from Laser Ablation Multicollector ICP-MS (LA-MC-ICP-MS) Analysis. <i>Geostandards and Geoanalytical Research</i> , 2008, 2, 32, 129-147.	2.0	36

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55	Shoshonitic lamprophyre dykes and their relation to mesothermal Au—Sb veins at Hillgrove, New South Wales, Australia. <i>Lithos</i> , 1994, 32, 249-272.	0.6	35
56	Using amphibole phenocrysts to track vapor transfer during magma crystallization and transport: An example from Mount St. Helens, Washington. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 593-607.	0.8	35
57	The determination of maternal run time in juvenile Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ) based on Sr/Ca and $87\text{Sr}/86\text{Sr}$ within otolith cores. <i>Fisheries Research</i> , 2009, 95, 373-378.	0.9	35
58	Review of the application of isotopic studies to the genesis of Cu—Au mineralisation at Olympic Dam and Au mineralisation at Porgera, the Tennant Creek district and Yilgarn Craton. <i>Australian Journal of Earth Sciences</i> , 1998, 45, 201-218.	0.4	34
59	Diverse Sr isotope signatures preserved in mid-oceanic-ridge basalt plagioclase. <i>Geology</i> , 2013, 41, 279-282.	2.0	34
60	Preferential eruption of andesitic magmas: Implications for volcanic magma fluxes at convergent margins. <i>Geological Society Special Publication</i> , 2014, 385, 257-280.	0.8	34
61	Unravelling the complexity of magma plumbing at Mount St. Helens: a new trace element partitioning scheme for amphibole. <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	1.2	34
62	Parental magma of the Skaergaard intrusion: constraints from melt inclusions in primitive troctolite blocks and FG-1 dykes. <i>Contributions To Mineralogy and Petrology</i> , 2010, 159, 61-79.	1.2	33
63	Life history variation in upper Columbia River Chinook salmon ( <i>Oncorhynchus tshawytscha</i> ): a comparison using modern and ~500-year-old archaeological otoliths. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2011, 68, 603-617.	0.7	33
64	Magmatic processes in the Bishop Tuff rhyolitic magma based on trace elements in melt inclusions and pumice matrix glass. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 237-257.	1.2	33
65	Influence of Exsolved Volatiles on Reheating Silicic Magmas by Recharge and Consequences for Eruptive Style at Volc�n Quizapu (Chile). <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 4123-4135.	1.0	32
66	Analysis of light lithophile elements (Li, Be, B) by laser ablation ICP-MS: Comparison between magnetic sector and quadrupole ICP-MS. <i>American Mineralogist</i> , 2006, 91, 1401-1411.	0.9	30
67	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.	0.6	29
68	Extreme geochemical heterogeneity in Afro-Arabian Oligocene tephras: Preserving fractional crystallization and mafic recharge processes in silicic magma chambers. <i>Lithos</i> , 2008, 102, 260-278.	0.6	28
69	Anomalously high Fe contents in rehomogenized olivine-hosted melt inclusions from oxidized magmas. <i>American Mineralogist</i> , 2006, 91, 82-91.	0.9	27
70	Geochemistry of the Cretaceous Kaskanak Batholith and genesis of the Pebble porphyry Cu-Au-Mo deposit, Southwest Alaska. <i>American Mineralogist</i> , 2017, 102, 1597-1621.	0.9	27
71	Trace element partitioning between plagioclase and melt: An investigation of the impact of experimental and analytical procedures. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 3359-3384.	1.0	27
72	Deep-sea ash layers reveal evidence for large, late Pleistocene and Holocene explosive activity from Sumatra, Indonesia. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 231-232, 61-71.	0.8	25

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73	Gas transport model for the magmatic system at Mount Pinatubo, Philippines: Insights from (210Pb)/(226Ra). <i>Journal of Volcanology and Geothermal Research</i> , 2009, 181, 124-140.	0.8	23
74	The sources of volatile and fluid-mobile elements in the Sunda arc: A melt inclusion study from Kawah Ijen and Tambora volcanoes, Indonesia. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	23
75	How well do zircons record the thermal evolution of magmatic systems?. <i>Geology</i> , 2018, 46, 111-114.	2.0	23
76	8. Melt Inclusions in Basaltic and Related Volcanic Rocks. , 2008, , 273-332.		22
77	Split-grain <sup>40</sup> Ar/ <sup>39</sup> Ar dating: Integrating temporal and geochemical data from crystal cargoes. <i>Chemical Geology</i> , 2017, 457, 15-23.	1.4	22
78	The analytical limits of modeling short diffusion timescales. <i>Chemical Geology</i> , 2017, 466, 667-677.	1.4	22
79	Statistics and segmentation: Using Big Data to assess Cascades arc compositional variability. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 265, 443-467.	1.6	21
80	Constraints on crystal storage timescales in mixed magmas: Uranium-series disequilibria in plagioclase from Holocene magmas at Mount Hood, Oregon. <i>Earth and Planetary Science Letters</i> , 2012, 317-318, 319-330.	1.8	20
81	Timing and composition of continental volcanism at Harrat Hutaymah, western Saudi Arabia. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 313, 1-14.	0.8	20
82	Geochronology and geochemistry of Palaeozoic intrusive rocks in the Rockvale region, southern New England Orogen, New South Wales. <i>Australian Journal of Earth Sciences</i> , 1994, 41, 365-379.	0.4	19
83	Geology, geochemistry and geochronology of the Cretaceous Lascano East intrusive complex and magmatic evolution of the Laguna Meran basin, Uruguay. <i>Gondwana Research</i> , 2015, 28, 837-857.	3.0	19
84	Chemical Variations in Hydrothermal White Mica Across the Highland Valley Porphyry Cu-Mo District, British Columbia, Canada. <i>Economic Geology</i> , 2020, 115, 903-926.	1.8	19
85	Disturbed <sup>40</sup> Ar— <sup>39</sup> Ar systematics in hydrothermal biotite and hornblende at the Scotia gold mine, Western Australia: Evidence for argon loss associated with post-mineralisation fluid movement. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4655-4669.	1.6	17
86	Origin of minor and trace element compositional diversity in anorthitic feldspar phenocrysts and melt inclusions from the Juan de Fuca Ridge. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	15
87	An overview of modern trends in petrography: Textural and microanalysis of igneous rocks. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 154, vii-ix.	0.8	14
88	Chemical fingerprints and residence times of olivine in the 1959 Kilauea Iki eruption, Hawaii: Insights into picrite formation. <i>American Mineralogist</i> , 2018, 103, 1812-1826.	0.9	13
89	Trace Element and Isotopic Characteristics of Plagioclase Megacrysts in Plagioclase Ultraphyric Basalts (PUB). <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008638.	1.0	13
90	Mush, Melts and Metasediments: a History of Rhyolites from the Okataina Volcanic Centre, New Zealand, as Captured in Plagioclase. <i>Journal of Petrology</i> , 2021, 62, .	1.1	13

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91	Species and Life History Affect the Utility of Otolith Chemical Composition for Determining Natal Stream of Origin for Pacific Salmon. Transactions of the American Fisheries Society, 2013, 142, 1370-1380.	0.6	12
92	Frequency and volumes of ignimbrite eruptions following the Late Neogene initiation of the Central Oregon High Cascades. Journal of Volcanology and Geothermal Research, 2017, 339, 1-22.	0.8	12
93	Spatial and temporal variability in Marquesas Islands volcanism revealed by $^3\text{He}/^4\text{He}$ and the composition of olivine-hosted melt inclusions. Chemical Geology, 2018, 477, 161-176.	1.4	10
94	Rhyolite Generation prior to a Yellowstone Supereruption: Insights from the Island Park "Mount Jackson Rhyolite Series. Journal of Petrology, 0, , egw071.	1.1	9
95	Pb isotope variations in hydrogenetic Fe-Mn crusts from the Izu-Bonin fore-arc. Chemical Geology, 2009, 258, 288-298.	1.4	8
96	Geochemical and Cosmochemical Materials. Analytical Chemistry, 2007, 79, 4249-4274.	3.2	7
97	The ion microprobe as a tool for obtaining strontium isotopes in magmatic plagioclase: A case study at Okataina Volcanic Centre, New Zealand. Chemical Geology, 2019, 513, 153-166.	1.4	6
98	Formation of a sheeted intrusive complex within the deep-crustal Tenpeak pluton, North Cascades, Washington. , 2017, 13, 1610-1639.		6
99	Geochemistry and $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology of lavas from Tunupa volcano, Bolivia: Implications for plateau volcanism in the central Andean Plateau. Lithosphere, 2015, 7, 95-107.	0.6	5
100	Response to Comment on "Rapid cooling and cold storage in a silicic magma reservoir recorded in individual crystals". Science, 2017, 358, .	6.0	4
101	$^{40}\text{Ar}/^{39}\text{Ar}$ and U-Pb age constraints on the timing of gold mineralization in the Kalgoorlie gold field, Western Australia; reply. Economic Geology, 1996, 91, 795-799.	1.8	4
102	Thermal Budgets of Magma Storage Constrained by Diffusion Chronometry: the Cerro Galán Ignimbrite. Journal of Petrology, 2022, 63, .	1.1	4
103	Tephrochronology of North America's most recent arc-sourced ignimbrite flare-up: The Deschutes Formation of the Central Oregon Cascades. Journal of Volcanology and Geothermal Research, 2021, 412, 107193.	0.8	3
104	Dendrochemical Evidence of the 1781 Eruption of Mount Hood, Oregon. Advances in Global Change Research, 2010, , 465-467.	1.6	2
105	The volatile and trace element composition of apatite in the Skaergaard intrusion, East Greenland. Contributions To Mineralogy and Petrology, 2021, 176, 1.	1.2	2
106	RESEARCH FOCUS: Tackling supervolcanoes: Big and fast?. Geology, 2015, 43, 1039-1040.	2.0	1
107	The distribution of anadromy and residency in steelhead/rainbow trout in the Eel River, northwestern California. California Fish and Wildlife Journal, 2021, 107, 77-88.	0.2	1
108	Time scale for the development of thickened crust in the Cretaceous North Cascades magmatic arc, Washington, and relationship to Cretaceous flare-up magmatism. Lithosphere, 0, , .	0.6	1

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109	Snow Peak, Oregon: Latest Miocene low-K tholeiite volcanism in the Cascadia forearc. <i>Lithos</i> , 2015, 239, 86-96.	0.6	0
110	Geochemical and Geophysical Evolution of Regional Mantle Flow Beneath Volcanic Harrats in the West Arabian Shield (Saudi Arabia). <i>Advances in Science, Technology and Innovation</i> , 2019, , 9-11.	0.2	0