Andrew C Kerr

List of Publications by Year
in descending order

109 papers	6,554 citations	66343 42 h-index	66911 78 g-index
114 all docs	114 docs citations	114 times ranked	4609 citing authors

#	Article	IF	Citations
1	The amount of recycled crust in sources of mantle-derived melts. Science, 2007, 316, 412-7.	12.6	822
2	Classification of Altered Volcanic Island Arc Rocks using Immobile Trace Elements: Development of the Thâ€“Co Discrimination Diagram. Journal of Petrology, 2007, 48, 2341-2357.	2.8	688
3	Are we now living in the Anthropocene. GSA Today, 2008, 18, 4.	2.0	480
4	Oceanic plateau formation: a cause of mass extinction and black shale deposition around the Cenomanianâ€“Turonian boundary?. Journal of the Geological Society, 1998, 155, 619-626.	2.1	252
5	Dynamic melting in plume heads: the formation of Gorgona komatiites and basalts. Earth and Planetary Science Letters, 1997, 146, 289-301.	4.4	166
6	Stratigraphy of the Anthropocene. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 1036-1055.	3.4	156
7	Tectonic evolution of the Caribbean and northwestern South America: The case for accretion of two Late Cretaceous oceanic plateaus. Geology, 2005, 33, 269.	4.4	150
8	Large volume recycling of oceanic lithosphere over short time scales: geochemical constraints from the Caribbean Large Igneous Province. Earth and Planetary Science Letters, 2000, 174, 247-263.	4.4	140
9	A new plate tectonic model of the Caribbean: Implications from a geochemical reconnaissance of Cuban Mesozoic volcanic rocks. Bulletin of the Geological Society of America, 1999, 111, 1581.	3.3	137
10	LIP Reading: Recognizing Oceanic Plateaux in the Geological Record. Journal of Petrology, 2000, 41, 1041-1056.	2.8	126
11	Depleted mantle-plume geochemical signatures: No paradox for plume theories. Geology, 1995, 23, 843.	4.4	120
12	The nature and provenance of accreted oceanic terranes in western Ecuador: geochemical and tectonic constraints. Journal of the Geological Society, 2002, 159, 577-594.	2.1	120
13	Geochemistry of rare high-Nb basalt lavas: Are they derived from a mantle wedge metasomatised by slab melts?. Geochimica Et Cosmochimica Acta, 2011, 75, 5049-5072.	3.9	103
14	Oceanic plateaus: Problematic plumes, potential paradigms. Chemical Geology, 2007, 241, 332-353.	3.3	97
15	Implications of 187Os isotopic heterogeneities in a mantle plume: evidence from Gorgona Island and CuraÃ§ao. Geochimica Et Cosmochimica Acta, 1999, 63, 713-728.	3.9	93
16	Crustal assimilation during turbulent magma ascent (ATA); new isotopic evidence from the Mull Tertiary lava succession, N. W. Scotland. Contributions To Mineralogy and Petrology, 1995, 119, 142-154.	3.1	89
17	The internal structure of oceanic plateaus: inferences from obducted Cretaceous terranes in western Colombia and the Caribbean. Tectonophysics, 1998, 292, 173-188.	2.2	87
18	Mantle plume or slab window?: Physical and geochemical constraints on the origin of the Caribbean oceanic plateau. Earth-Science Reviews, 2010, 98, 283-293.	9.1	87

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19	Pervasive mantle plume head heterogeneity: Evidence from the late Cretaceous Caribbean-Colombian oceanic plateau. Journal of Geophysical Research, 2002, 107, ECV 2-1-ECV 2-13.	3.3	79
20	Lithospheric thinning during the evolution of continental large igneous provinces: A case study from the North Atlantic Tertiary province. Geology, 1994, 22, 1027.	4.4	75
21	Geochronology, geochemistry and petrogenesis of rhyodacite lavas in eastern Jamaica: A new adakite subgroup analogous to early Archaean continental crust?. Chemical Geology, 2010, 276, 344-359.	3.3	74
22	The Quebradagrande Complex: A Lower Cretaceous ensialic marginal basin in the Central Cordillera of the Colombian Andes. Journal of South American Earth Sciences, 2006, 21, 423-436.	1.4	72
23	The geochemistry and tectonic setting of late Cretaceous Caribbean and Colombian volcanism. Journal of South American Earth Sciences, 1996, 9, 111-120.	1.4	69
24	Geochemistry and petrogenesis of Cretaceous oceanic plateau lavas in eastern Jamaica. Lithos, 2008, 101, 323-343.	1.4	66
25	The Caribbean-Colombian Cretaceous Igneous Province: The Internal Anatomy of an Oceanic Plateau. Geophysical Monograph Series, 0, , 123-144.	0.1	65
26	La Isla de Gorgona, Colombia: A petrological enigma?. Lithos, 2005, 84, 77-101.	1.4	62
27	Paleocene (c. 62â€‰Ma) Leucogranites in Southern Lhasa, Tibet: Products of Syn-collisional Crustal Anatexis during Slab Roll-back?. Journal of Petrology, 2017, 58, 2089-2114.	2.8	62
28	Geochemical Evolution of the Tertiary Mull Volcano, Western Scotland. Journal of Petrology, 1999, 40, 873-908.	2.8	61
29	Hfâ€“Nd isotope constraints on the origin of the Cretaceous Caribbean plateau and its relationship to the GalÃ¡pagos plumeâ˜†. Earth and Planetary Science Letters, 2004, 217, 59-75.	4.4	55
30	Extensive crustal extraction in Earthâ€™s early history inferred from molybdenum isotopes. Nature Geoscience, 2019, 12, 946-951.	12.9	55
31	Origin of the Aves Ridge and Dutchâ€“Venezuelan Antilles: interaction of the Cretaceous â€˜Great Arc' and Caribbeanâ€“Colombian Oceanic Plateau?. Journal of the Geological Society, 2011, 168, 333-348.	2.1	54
32	Do Cenozoic analogues support a plate tectonic origin for Earth's earliest continental crust?. Geology, 2010, 38, 495-498.	4.4	53
33	Petrogenesis of picrites from the Caribbean Plateau and the North Atlantic magmatic province. Lithos, 1999, 49, 1-21.	1.4	52
34	Hafnium isotopic variations in volcanic rocks from the Caribbean Large Igneous Province and GalÃ¡pagos hot spot tracks. Geochemistry, Geophysics, Geosystems, 2003, 4, .	2.5	52
35	Geochemical components in a Cretaceous island arc: The Th/Laâ€“(Ce/Ce*)Nd diagram and implications for subduction initiation in the inter-American region. Lithos, 2013, 162-163, 57-69.	1.4	51
36	Oceanic Plateaus. , 2014, , 631-667.		49

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37	The Great Plume Debate: Testing the plume theory. Chemical Geology, 2007, 241, 149-152.	3.3	48
38	Elemental, Hfâ€“Nd isotopic and geochronological constraints on an island arc sequence associated with the Cretaceous Caribbean plateau: Bonaire, Dutch Antilles. Lithos, 2004, 74, 91-116.	1.4	47
39	Late Cretaceous alkaline sills of the south Tethyan suture zone, Pakistan: Initial melts of the RÃ©union hotspot?. Lithos, 2010, 117, 161-171.	1.4	46
40	The geochemistry of the Mull-Morvern Tertiary lava succession, NW Scotland: an assessment of mantle sources during plume-related volcanism. Chemical Geology, 1995, 122, 43-58.	3.3	45
41	Enriched lithospheric mantle keel below the Scottish margin of the North Atlantic Craton: Evidence from the Palaeoproterozoic Scourie Dyke Swarm and mantle xenoliths. Precambrian Research, 2014, 250, 97-126.	2.7	45
42	Iron isotopes in ancient and modern komatiites: Evidence in support of an oxidised mantle from Archean to present. Earth and Planetary Science Letters, 2012, 321-322, 198-207.	4.4	43
43	Supra-subduction zone tectonic setting of the Muslim Bagh Ophiolite, northwestern Pakistan: Insights from geochemistry and petrology. Lithos, 2014, 202-203, 190-206.	1.4	42
44	A mantle plume origin for the Palaeoproterozoic Circum-Superior Large Igneous Province. Precambrian Research, 2017, 294, 189-213.	2.7	42
45	Nickel isotopic composition of the mantle. Geochimica Et Cosmochimica Acta, 2017, 199, 196-209.	3.9	42
46	Thermochronology and tectonics of the Leeward Antilles: Evolution of the southern Caribbean Plate boundary zone. Tectonics, 2010, 29, n/a-n/a.	2.8	38
47	Composition and temperature of komatiite melts from Gorgona Island, Colombia, constrained from olivine-hosted melt inclusions. Geology, 2010, 38, 1003-1006.	4.4	37
48	Nature and Evolution of Crust in Southern Lhasa, Tibet: Transformation From Microcontinent to Juvenile Terrane. Journal of Geophysical Research: Solid Earth, 2019, 124, 6452-6474.	3.4	36
49	Formation and tectonic evolution of the Cretaceousâ€“Jurassic Muslim Bagh ophiolitic complex, Pakistan: Implications for the composite tectonic setting of ophiolites. Journal of Asian Earth Sciences, 2007, 31, 112-127.	2.3	34
50	Mafic Pegmatites Intruding Oceanic Plateau Gabbros and Ultramafic Cumulates from Bolivar, Colombia: Evidence for a 'Wet' Mantle Plume?. Journal of Petrology, 2004, 45, 1877-1906.	2.8	33
51	Origin of the volcanic complexes of La DÃ©sirade, Lesser Antilles: Implications for tectonic reconstruction of the Late Jurassic to Cretaceous Pacific-proto Caribbean margin. Lithos, 2010, 120, 407-420.	1.4	31
52	The Early Proterozoic Matachewan Large Igneous Province: Geochemistry, Petrogenesis, and Implications for Earth Evolution. Journal of Petrology, 2015, 56, 1459-1494.	2.8	31
53	Evidence for subaerial development of the Caribbean oceanic plateau in the Late Cretaceous and palaeo-environmental implications. Earth and Planetary Science Letters, 2018, 499, 62-73.	4.4	31
54	Geochemistry of Compositionally Distinct Late Cretaceous Back-Arc Basin Lavas: Implications for the Tectonomagmatic Evolution of the Caribbean Plate. Journal of Geology, 2010, 118, 655-676.	1.4	30

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55	Oceanic mafic magmatism in the Siletz terrane, NW North America: Fragments of an Eocene oceanic plateau?. Lithos, 2017, 274-275, 291-303.	1.4	30
56	The northern and southern sections of the western ca. 1880Ma Circum-Superior Large Igneous Province, North America: The Pickle Crow dyke connection?. Lithos, 2013, 174, 217-235.	1.4	29
57	Evaluation of the effects of alteration and leaching on Smâ€“Nd and Luâ€“Hf systematics in submarine mafic rocks. Lithos, 2008, 104, 164-176.	1.4	27
58	Accreted seamounts in North Tianshan, NW China: Implications for the evolution of the Central Asian Orogenic Belt. Journal of Asian Earth Sciences, 2018, 153, 223-237.	2.3	27
59	Early Cretaceous (~ 140 Ma) aluminous A-type granites in the Tethyan Himalaya, Tibet: Products of crust-mantle interaction during lithospheric extension. Lithos, 2018, 300-301, 212-226.	1.4	27
60	Platinum-group element signatures in the North Atlantic Igneous Province: Implications for mantle controls on metal budgets during continental breakup. Lithos, 2015, 233, 89-110.	1.4	24
61	Red tuffs in the Palaeocene lava successions of the Inner Hebrides. Scottish Journal of Geology, 1996, 32, 83-89.	0.1	23
62	Magma source evolution beneath the Caribbean oceanic plateau: new insights from elemental and Sr-Nd-Pb-Hf isotopic studies of ODP Leg 165 Site 1001 basalts. Geological Society Special Publication, 2009, 328, 809-827.	1.3	22
63	The composition of mantle plumes and the deep Earth. Earth and Planetary Science Letters, 2016, 444, 13-25.	4.4	21
64	The Albianâ€“Turonian Island Arc Rocks of Tobago, West Indies: Geochemistry, Petrogenesis, and Caribbean Plate Tectonics. Journal of Petrology, 2013, 54, 1607-1639.	2.8	20
65	Insights into the evolution of an alkaline magmatic system: An in situ trace element study of clinopyroxenes from the DitrÄƒu Alkaline Massif, Romania. Lithos, 2018, 300-301, 51-71.	1.4	20
66	Oxygen isotopes and volatile contents of the Gorgona komatiites, Colombia: A confirmation of the deep mantle origin of H2O. Earth and Planetary Science Letters, 2016, 454, 154-165.	4.4	19
67	The melting processes and composition of the North Atlantic (Iceland) plume: geochemical evidence from the Early Tertiary basalts. Journal of the Geological Society, 1995, 152, 975-978.	2.1	17
68	Emplacement of Hebridean Tertiary flood basalts: evidence from an inflated pahoehoe lava flow on Mull, Scotland. Journal of the Geological Society, 1998, 155, 599-607.	2.1	16
69	Did mantle plume magmatism help trigger the Great Oxidation Event?. Lithos, 2016, 246-247, 128-133.	1.4	16
70	Mg-Ba-Sr-Nd isotopic evidence for a mÃ©lange origin of early Paleozoic arc magmatism. Earth and Planetary Science Letters, 2022, 577, 117263.	4.4	16
71	Geochemistry and tectonomagmatic significance of Lower Cretaceous island arc lavas from the Devils Racecourse Formation, eastern Jamaica. Geological Society Special Publication, 2009, 328, 339-360.	1.3	15
72	The Î´53Cr isotope composition of komatiite flows and implications for the composition of the bulk silicate Earth. Chemical Geology, 2020, 551, 119761.	3.3	14

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73	Contribution of continental subduction to very light B isotope signatures in post-collisional magmas: Evidence from southern Tibetan ultrapotassic rocks. Earth and Planetary Science Letters, 2022, 584, 117508.	4.4	14
74	Sulphide Sinking in Magma Conduits: Evidence from Maficâ€“Ultramafic Plugs on Rum and the Wider North Atlantic Igneous Province. Journal of Petrology, 2016, 57, 383-416.	2.8	13
75	Age and Petrogenesis of the Lower Cretaceous North Coast Schist of Tobago, a Fragment of the Protoâ€“Greater Antilles Inter-American Arc System. Journal of Geology, 2012, 120, 367-384.	1.4	12
76	The geochemistry and petrogenesis of the Paleoproterozoic du Chef dyke swarm, QuÃ©bec, Canada. Precambrian Research, 2014, 250, 151-166.	2.7	12
77	Mineral chemistry of the Mull-Morvern Tertiary lava succession, western Scotland. Mineralogical Magazine, 1998, 62, 295-312.	1.4	11
78	Petrogenesis of High-MgO Lavas of the Lower Mull Plateau Group, Scotland: Insights from Melt Inclusions. Journal of Petrology, 2012, 53, 1867-1886.	2.8	11
79	Vestiges of the proto-Caribbean seaway: Origin of the San Souci Volcanic Group, Trinidad. Tectonophysics, 2014, 626, 170-185.	2.2	11
80	Petrogenesis of plagiogranites in the Muslim Bagh Ophiolite, Pakistan: implications for the generation of Archaean continental crust. Geological Magazine, 2019, 156, 874-888.	1.5	11
81	The geochemistry and significance of plugs intruding the Tertiary Mull-Morvern lava succession, western Scotland. Scottish Journal of Geology, 1997, 33, 157-167.	0.1	9
82	Geochemistry and petrogenesis of Oligocene volcaniclastic rocks from the Chagai arc: implications for the emplacement of porphyry copper deposits. Arabian Journal of Geosciences, 2015, 8, 8655-8667.	1.3	9
83	Genesis of Manganese Deposits in the Ali Khanzai Block of the Zhob Ophiolite, Pakistan: Inferences from Geochemistry and Mineralogy. Journal of Earth Science (Wuhan, China), 2020, 31, 884-895.	3.2	9
84	High-pressure fractionation in rift-related basaltic magmatism: Faeroe plateau basalts. Geology, 1995, 23, 671.	4.4	8
85	Mantle plumes: physical processes, chemical signatures, biological effectsâ˜†. Lithos, 2005, 79, vii-x.	1.4	7
86	Petrology and geochemistry of mafic dykes from the Muslim Bagh Ophiolite (Pakistan): implications for petrogenesis and emplacement. Turkish Journal of Earth Sciences, 2015, 24, 165-178.	1.0	7
87	Petrogenesis and tectonomagmatic significance of Eocene mafic intrusions from the Neotethyan suture zone in the Muslim Baghâ€“Khanozai region, Pakistan. Journal of the Geological Society, 2016, 173, 518-530.	2.1	7
88	On the nature of the parental magma of the Palaeogene Staffa Magma sub-type, Isle of Mull, Scotland. Transactions of the Royal Society of Edinburgh: Earth Sciences, 1998, 89, 87-93.	0.7	6
89	Examining the case for the use of the Tertiary as a formal period or informal unit. Proceedings of the Geologists Association, 2012, 123, 390-393.	1.1	6
90	A re-appraisal of the petrogenesis and tectonic setting of the Ordovician Fishguard Volcanic Group, SW Wales. Geological Magazine, 2016, 153, 410-425.	1.5	6

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91	Petrography and geochemistry of Archaean greywackes from northern part of the Dharwar-Shimoga greenstone belt, western Dharwar craton: Implications for nature of provenance. Journal of the Geological Society of India, 2017, 89, 547-553.	1.1	6
92	Northeast- or southwest-dipping subduction in the Cretaceous Caribbean gateway?. Lithos, 2021, 386-387, 105998.	1.4	6
93	Rethinking the origins of the red chert at La DÃ©sirade, French West Indies. Geological Society Special Publication, 2009, 328, 457-467.	1.3	5
94	Petrogenesis of Middle Triassic volcaniclastic rocks from Balochistan, Pakistan: Implications for the break-up of Gondwanaland. Journal of Earth Science (Wuhan, China), 2017, 28, 218-228.	3.2	5
95	Nature of the pre-collisional lithospheric mantle in Central Tibet: Insights to Tibetan Plateau uplift. Lithos, 2021, 388-389, 106076.	1.4	5
96	Geochemical Evolution of the Tertiary Mull Volcano, Western Scotland. Journal of Petrology, 1999, 40, 873-908.	2.8	5
97	A proximal record of caldera-forming eruptions: the stratigraphy, eruptive history and collapse of the Palaeogene Arran caldera, western Scotland. Bulletin of Volcanology, 2018, 80, 1.	3.0	4
98	Geology and geochemistry of metabasalts of Shimoga schist belt, Dharwar Craton: implications for the late Archean basin development. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	4
99	Current research in the British Tertiary Igneous Province. Journal of the Geological Society, 1993, 150, 1193-1194.	2.1	3
100	Asteroid impact and mass extinction at the Kâ€“T boundary: an extinct red herring. Geology Today, 1997, 13, 157-159.	0.9	3
101	The geochemistry and petrogenesis of the Blue Draw Metagabbro. Lithos, 2013, 174, 271-290.	1.4	3
102	Oceanic Plateaus. , 2015, , 1-15.		3
103	The Fuchuan Ophiolite in South China: Evidence for Modernâ€Style Plate Tectonics During Rodinia Breakup. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC010137.	2.5	3
104	Eruption of basaltic magma at Tor Zawar, Balochistan, Pakistan on 27 January 2010: geochemical and petrological constraints on petrogenesis. Mineralogical Magazine, 2010, 74, 1027-1036.	1.4	2
105	Petrology and geochemistry of volcanic and volcanoclastic rocks from Zhob ophiolite, North-Western Pakistan. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	2
106	Geology and petrogenesis of gabbro from the Zhob Ophiolite, Balochistan, Pakistan. Arabian Journal of Geosciences, 2022, 15, .	1.3	2
107	Phanerozoic volcanism. , 2012, , 40-74.		1
108	Petrogenesis of Siletzia: The world's youngest oceanic plateau. Results in Geochemistry, 2020, 1, 100004.	0.8	1

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109	Chronology and geochemistry of the Caribbean Large Igneous Province in Jamaica. Results in Geochemistry, 2022, , 100015.	0.8	1