

# Andrew C Kerr

## List of Publications by Year in descending order

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109  
papers

6,554  
citations

66343

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66911

78  
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114  
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114  
docs citations

114  
times ranked

4609  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mg-Ba-Sr-Nd isotopic evidence for a mantle origin of early Paleozoic arc magmatism. <i>Earth and Planetary Science Letters</i> , 2022, 577, 117263.	4.4	16
2	Contribution of continental subduction to very light B isotope signatures in post-collisional magmas: Evidence from southern Tibetan ultrapotassic rocks. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117508.	4.4	14
3	Geology and petrogenesis of gabbro from the Zhob Ophiolite, Balochistan, Pakistan. <i>Arabian Journal of Geosciences</i> , 2022, 15, .	1.3	2
4	Chronology and geochemistry of the Caribbean Large Igneous Province in Jamaica. <i>Results in Geochemistry</i> , 2022, , 100015.	0.8	1
5	Petrology and geochemistry of volcanic and volcanoclastic rocks from Zhob ophiolite, North-Western Pakistan. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	2
6	Northeast- or southwest-dipping subduction in the Cretaceous Caribbean gateway?. <i>Lithos</i> , 2021, 386-387, 105998.	1.4	6
7	Nature of the pre-collisional lithospheric mantle in Central Tibet: Insights to Tibetan Plateau uplift. <i>Lithos</i> , 2021, 388-389, 106076.	1.4	5
8	The Fuchuan Ophiolite in South China: Evidence for Modern-style Plate Tectonics During Rodinia Breakup. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC010137.	2.5	3
9	Genesis of Manganese Deposits in the Ali Khanzai Block of the Zhob Ophiolite, Pakistan: Inferences from Geochemistry and Mineralogy. <i>Journal of Earth Science (Wuhan, China)</i> , 2020, 31, 884-895.	3.2	9
10	Petrogenesis of Siletzia: The world's youngest oceanic plateau. <i>Results in Geochemistry</i> , 2020, 1, 100004.	0.8	1
11	The $\delta^{53}\text{Cr}$ isotope composition of komatiite flows and implications for the composition of the bulk silicate Earth. <i>Chemical Geology</i> , 2020, 551, 119761.	3.3	14
12	Extensive crustal extraction in Earth's early history inferred from molybdenum isotopes. <i>Nature Geoscience</i> , 2019, 12, 946-951.	12.9	55
13	Nature and Evolution of Crust in Southern Lhasa, Tibet: Transformation From Microcontinent to Juvenile Terrane. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 6452-6474.	3.4	36
14	Petrogenesis of plagiogranites in the Muslim Bagh Ophiolite, Pakistan: implications for the generation of Archaean continental crust. <i>Geological Magazine</i> , 2019, 156, 874-888.	1.5	11
15	Accreted seamounts in North Tianshan, NW China: Implications for the evolution of the Central Asian Orogenic Belt. <i>Journal of Asian Earth Sciences</i> , 2018, 153, 223-237.	2.3	27
16	Early Cretaceous (~ 140 Ma) aluminous A-type granites in the Tethyan Himalaya, Tibet: Products of crust-mantle interaction during lithospheric extension. <i>Lithos</i> , 2018, 300-301, 212-226.	1.4	27
17	A proximal record of caldera-forming eruptions: the stratigraphy, eruptive history and collapse of the Palaeogene Arran caldera, western Scotland. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	4
18	Evidence for subaerial development of the Caribbean oceanic plateau in the Late Cretaceous and palaeo-environmental implications. <i>Earth and Planetary Science Letters</i> , 2018, 499, 62-73.	4.4	31

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19	Geology and geochemistry of metabasalts of Shimoga schist belt, Dharwar Craton: implications for the late Archean basin development. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	1.3	4
20	Insights into the evolution of an alkaline magmatic system: An in situ trace element study of clinopyroxenes from the DitrĂfu Alkaline Massif, Romania. <i>Lithos</i> , 2018, 300-301, 51-71.	1.4	20
21	Oceanic mafic magmatism in the Siletz terrane, NW North America: Fragments of an Eocene oceanic plateau?. <i>Lithos</i> , 2017, 274-275, 291-303.	1.4	30
22	A mantle plume origin for the Palaeoproterozoic Circum-Superior Large Igneous Province. <i>Precambrian Research</i> , 2017, 294, 189-213.	2.7	42
23	Petrography and geochemistry of Archaean greywackes from northern part of the Dharwar-Shimoga greenstone belt, western Dharwar craton: Implications for nature of provenance. <i>Journal of the Geological Society of India</i> , 2017, 89, 547-553.	1.1	6
24	Nickel isotopic composition of the mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 196-209.	3.9	42
25	Petrogenesis of Middle Triassic volcanoclastic rocks from Balochistan, Pakistan: Implications for the break-up of Gondwanaland. <i>Journal of Earth Science (Wuhan, China)</i> , 2017, 28, 218-228.	3.2	5
26	Paleocene (c. 62â€‰Ma) Leucogranites in Southern Lhasa, Tibet: Products of Syn-collisional Crustal Anatexis during Slab Roll-back?. <i>Journal of Petrology</i> , 2017, 58, 2089-2114.	2.8	62
27	A re-appraisal of the petrogenesis and tectonic setting of the Ordovician Fishguard Volcanic Group, SW Wales. <i>Geological Magazine</i> , 2016, 153, 410-425.	1.5	6
28	The composition of mantle plumes and the deep Earth. <i>Earth and Planetary Science Letters</i> , 2016, 444, 13-25.	4.4	21
29	Sulphide Sinking in Magma Conduits: Evidence from Maficâ€“Ultramafic Plugs on Rum and the Wider North Atlantic Igneous Province. <i>Journal of Petrology</i> , 2016, 57, 383-416.	2.8	13
30	Oxygen isotopes and volatile contents of the Gorgona komatiites, Colombia: A confirmation of the deep mantle origin of H <sub>2</sub> O. <i>Earth and Planetary Science Letters</i> , 2016, 454, 154-165.	4.4	19
31	Petrogenesis and tectonomagmatic significance of Eocene mafic intrusions from the Neotethyan suture zone in the Muslim Baghâ€“Khanozai region, Pakistan. <i>Journal of the Geological Society</i> , 2016, 173, 518-530.	2.1	7
32	Did mantle plume magmatism help trigger the Great Oxidation Event?. <i>Lithos</i> , 2016, 246-247, 128-133.	1.4	16
33	Geochemistry and petrogenesis of Oligocene volcanoclastic rocks from the Chagai arc: implications for the emplacement of porphyry copper deposits. <i>Arabian Journal of Geosciences</i> , 2015, 8, 8655-8667.	1.3	9
34	Petrology and geochemistry of mafic dykes from the Muslim Bagh Ophiolite (Pakistan): implications for petrogenesis and emplacement. <i>Turkish Journal of Earth Sciences</i> , 2015, 24, 165-178.	1.0	7
35	Platinum-group element signatures in the North Atlantic Igneous Province: Implications for mantle controls on metal budgets during continental breakup. <i>Lithos</i> , 2015, 233, 89-110.	1.4	24
36	The Early Proterozoic Matachewan Large Igneous Province: Geochemistry, Petrogenesis, and Implications for Earth Evolution. <i>Journal of Petrology</i> , 2015, 56, 1459-1494.	2.8	31

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37	Oceanic Plateaus. , 2015, , 1-15.		3
38	Oceanic Plateaus. , 2014, , 631-667.		49
39	Vestiges of the proto-Caribbean seaway: Origin of the San Souci Volcanic Group, Trinidad. Tectonophysics, 2014, 626, 170-185.	2.2	11
40	The geochemistry and petrogenesis of the Paleoproterozoic du Chef dyke swarm, QuÃ©bec, Canada. Precambrian Research, 2014, 250, 151-166.	2.7	12
41	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
42	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
43	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
44	The geochemistry and petrogenesis of the Blue Draw Metagabbro. Lithos, 2013, 174, 271-290.	1.4	3
45	Geochemical components in a Cretaceous island arc: The Th/La <sup>ε</sup> (Ce/Ce*)Nd diagram and implications for subduction initiation in the inter-American region. Lithos, 2013, 162-163, 57-69.	1.4	51
46	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
47	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
48	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
49	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
50	Phanerozoic volcanism. , 2012, , 40-74.		1
51	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
52	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
53	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
54	Stratigraphy of the Anthropocene. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 1036-1055.	3.4	156

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55	Late Cretaceous alkaline sills of the south Tethyan suture zone, Pakistan: Initial melts of the R�union hotspot?. <i>Lithos</i> , 2010, 117, 161-171.	1.4	46
56	Origin of the volcanic complexes of La D�sirade, Lesser Antilles: Implications for tectonic reconstruction of the Late Jurassic to Cretaceous Pacific-proto Caribbean margin. <i>Lithos</i> , 2010, 120, 407-420.	1.4	31
57	Mantle plume or slab window?: Physical and geochemical constraints on the origin of the Caribbean oceanic plateau. <i>Earth-Science Reviews</i> , 2010, 98, 283-293.	9.1	87
58	Composition and temperature of komatiite melts from Gorgona Island, Colombia, constrained from olivine-hosted melt inclusions. <i>Geology</i> , 2010, 38, 1003-1006.	4.4	37
59	Eruption of basaltic magma at Tor Zawar, Balochistan, Pakistan on 27 January 2010: geochemical and petrological constraints on petrogenesis. <i>Mineralogical Magazine</i> , 2010, 74, 1027-1036.	1.4	2
60	Geochemistry of Compositionally Distinct Late Cretaceous Back-Arc Basin Lavas: Implications for the Tectonomagmatic Evolution of the Caribbean Plate. <i>Journal of Geology</i> , 2010, 118, 655-676.	1.4	30
61	Geochronology, geochemistry and petrogenesis of rhyodacite lavas in eastern Jamaica: A new adakite subgroup analogous to early Archaean continental crust?. <i>Chemical Geology</i> , 2010, 276, 344-359.	3.3	74
62	Thermochronology and tectonics of the Leeward Antilles: Evolution of the southern Caribbean Plate boundary zone. <i>Tectonics</i> , 2010, 29, n/a-n/a.	2.8	38
63	Do Cenozoic analogues support a plate tectonic origin for Earth's earliest continental crust?. <i>Geology</i> , 2010, 38, 495-498.	4.4	53
64	Geochemistry and tectonomagmatic significance of Lower Cretaceous island arc lavas from the Devils Racecourse Formation, eastern Jamaica. <i>Geological Society Special Publication</i> , 2009, 328, 339-360.	1.3	15
65	Rethinking the origins of the red chert at La D�sirade, French West Indies. <i>Geological Society Special Publication</i> , 2009, 328, 457-467.	1.3	5
66	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. <i>Geological Society Special Publication</i> , 2009, 328, 809-827.	1.3	22
67	Geochemistry and petrogenesis of Cretaceous oceanic plateau lavas in eastern Jamaica. <i>Lithos</i> , 2008, 101, 323-343.	1.4	66
68	Evaluation of the effects of alteration and leaching on Sm�Nd and Lu�Hf systematics in submarine mafic rocks. <i>Lithos</i> , 2008, 104, 164-176.	1.4	27
69	Are we now living in the Anthropocene. <i>GSA Today</i> , 2008, 18, 4.	2.0	480
70	Oceanic plateaus: Problematic plumes, potential paradigms. <i>Chemical Geology</i> , 2007, 241, 332-353.	3.3	97
71	Formation and tectonic evolution of the Cretaceous�Jurassic Muslim Bagh ophiolitic complex, Pakistan: Implications for the composite tectonic setting of ophiolites. <i>Journal of Asian Earth Sciences</i> , 2007, 31, 112-127.	2.3	34
72	The Great Plume Debate: Testing the plume theory. <i>Chemical Geology</i> , 2007, 241, 149-152.	3.3	48

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73	Classification of Altered Volcanic Island Arc Rocks using Immobile Trace Elements: Development of the Th-Co Discrimination Diagram. <i>Journal of Petrology</i> , 2007, 48, 2341-2357.	2.8	688
74	The amount of recycled crust in sources of mantle-derived melts. <i>Science</i> , 2007, 316, 412-7.	12.6	822
75	The Quebradagrande Complex: A Lower Cretaceous ensialic marginal basin in the Central Cordillera of the Colombian Andes. <i>Journal of South American Earth Sciences</i> , 2006, 21, 423-436.	1.4	72
76	Mantle plumes: physical processes, chemical signatures, biological effects†. <i>Lithos</i> , 2005, 79, vii-x.	1.4	7
77	La Isla de Gorgona, Colombia: A petrological enigma?. <i>Lithos</i> , 2005, 84, 77-101.	1.4	62
78	Tectonic evolution of the Caribbean and northwestern South America: The case for accretion of two Late Cretaceous oceanic plateaus. <i>Geology</i> , 2005, 33, 269.	4.4	150
79	Mafic Pegmatites Intruding Oceanic Plateau Gabbros and Ultramafic Cumulates from Bolivar, Colombia: Evidence for a 'Wet' Mantle Plume?. <i>Journal of Petrology</i> , 2004, 45, 1877-1906.	2.8	33
80	Elemental, Hf-εNd isotopic and geochronological constraints on an island arc sequence associated with the Cretaceous Caribbean plateau: Bonaire, Dutch Antilles. <i>Lithos</i> , 2004, 74, 91-116.	1.4	47
81	Hf-εNd isotope constraints on the origin of the Cretaceous Caribbean plateau and its relationship to the Galápagos plume†. <i>Earth and Planetary Science Letters</i> , 2004, 217, 59-75.	4.4	55
82	Hafnium isotopic variations in volcanic rocks from the Caribbean Large Igneous Province and Galápagos hot spot tracks. <i>Geochemistry, Geophysics, Geosystems</i> , 2003, 4, .	2.5	52
83	The nature and provenance of accreted oceanic terranes in western Ecuador: geochemical and tectonic constraints. <i>Journal of the Geological Society</i> , 2002, 159, 577-594.	2.1	120
84	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
85	Large volume recycling of oceanic lithosphere over short time scales: geochemical constraints from the Caribbean Large Igneous Province. <i>Earth and Planetary Science Letters</i> , 2000, 174, 247-263.	4.4	140
86	LIP Reading: Recognizing Oceanic Plateaux in the Geological Record. <i>Journal of Petrology</i> , 2000, 41, 1041-1056.	2.8	126
87	Geochemical Evolution of the Tertiary Mull Volcano, Western Scotland. <i>Journal of Petrology</i> , 1999, 40, 873-908.	2.8	61
88	A new plate tectonic model of the Caribbean: Implications from a geochemical reconnaissance of Cuban Mesozoic volcanic rocks. <i>Bulletin of the Geological Society of America</i> , 1999, 111, 1581.	3.3	137
89	Petrogenesis of picrites from the Caribbean Plateau and the North Atlantic magmatic province. <i>Lithos</i> , 1999, 49, 1-21.	1.4	52
90	Implications of 187Os isotopic heterogeneities in a mantle plume: evidence from Gorgona Island and Curaçao. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 713-728.	3.9	93

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91	Geochemical Evolution of the Tertiary Mull Volcano, Western Scotland. <i>Journal of Petrology</i> , 1999, 40, 873-908.	2.8	5
92	The internal structure of oceanic plateaus: inferences from obducted Cretaceous terranes in western Colombia and the Caribbean. <i>Tectonophysics</i> , 1998, 292, 173-188.	2.2	87
93	Oceanic plateau formation: a cause of mass extinction and black shale deposition around the Cenomanian-Turonian boundary?. <i>Journal of the Geological Society</i> , 1998, 155, 619-626.	2.1	252
94	Mineral chemistry of the Mull-Morvern Tertiary lava succession, western Scotland. <i>Mineralogical Magazine</i> , 1998, 62, 295-312.	1.4	11
95	On the nature of the parental magma of the Palaeogene Staffa Magma sub-type, Isle of Mull, Scotland. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 1998, 89, 87-93.	0.7	6
96	Emplacement of Hebridean Tertiary flood basalts: evidence from an inflated pahoehoe lava flow on Mull, Scotland. <i>Journal of the Geological Society</i> , 1998, 155, 599-607.	2.1	16
97	The geochemistry and significance of plugs intruding the Tertiary Mull-Morvern lava succession, western Scotland. <i>Scottish Journal of Geology</i> , 1997, 33, 157-167.	0.1	9
98	Dynamic melting in plume heads: the formation of Gorgona komatiites and basalts. <i>Earth and Planetary Science Letters</i> , 1997, 146, 289-301.	4.4	166
99	Asteroid impact and mass extinction at the K-T boundary: an extinct red herring. <i>Geology Today</i> , 1997, 13, 157-159.	0.9	3
100	The geochemistry and tectonic setting of late Cretaceous Caribbean and Colombian volcanism. <i>Journal of South American Earth Sciences</i> , 1996, 9, 111-120.	1.4	69
101	Red tuffs in the Palaeocene lava successions of the Inner Hebrides. <i>Scottish Journal of Geology</i> , 1996, 32, 83-89.	0.1	23
102	The melting processes and composition of the North Atlantic (Iceland) plume: geochemical evidence from the Early Tertiary basalts. <i>Journal of the Geological Society</i> , 1995, 152, 975-978.	2.1	17
103	High-pressure fractionation in rift-related basaltic magmatism: Faeroe plateau basalts. <i>Geology</i> , 1995, 23, 671.	4.4	8
104	Crustal assimilation during turbulent magma ascent (ATA); new isotopic evidence from the Mull Tertiary lava succession, N. W. Scotland. <i>Contributions To Mineralogy and Petrology</i> , 1995, 119, 142-154.	3.1	89
105	Depleted mantle-plume geochemical signatures: No paradox for plume theories. <i>Geology</i> , 1995, 23, 843.	4.4	120
106	The geochemistry of the Mull-Morvern Tertiary lava succession, NW Scotland: an assessment of mantle sources during plume-related volcanism. <i>Chemical Geology</i> , 1995, 122, 43-58.	3.3	45
107	Lithospheric thinning during the evolution of continental large igneous provinces: A case study from the North Atlantic Tertiary province. <i>Geology</i> , 1994, 22, 1027.	4.4	75
108	Current research in the British Tertiary Igneous Province. <i>Journal of the Geological Society</i> , 1993, 150, 1193-1194.	2.1	3

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109	The Caribbean-Colombian Cretaceous Igneous Province: The Internal Anatomy of an Oceanic Plateau. Geophysical Monograph Series, 0, , 123-144.	0.1	65