

Andrew C Kerr

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106
papers

5,391
citations

38
h-index

72
g-index

114
ext. papers

5,887
ext. citations

3.6
avg, IF

5.6
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 106 | . <i>Science</i> , | 33.3 | |
| 105 | Classification of Altered Volcanic Island Arc Rocks using Immobile Trace Elements: Development of the Th/U Discrimination Diagram. <i>Journal of Petrology</i> , 2007 , 48, 2341-2357 | 3.9 | 569 |
| 104 | Are we now living in the Anthropocene. <i>GSA Today</i> , 2008 , 18, 4 | 2.8 | 335 |
| 103 | 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 | 2.7 | 208 |
| 102 | Dynamic melting in plume heads: the formation of Gorgona komatiites and basalts. <i>Earth and Planetary Science Letters</i> , 1997 , 146, 289-301 | 5.3 | 145 |
| 101 | Stratigraphy of the Anthropocene. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 1036-55 | 3 | 133 |
| 100 | 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 | 5 | 127 |
| 99 | 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 | 5.3 | 119 |
| 98 | LIP Reading: Recognizing Oceanic Plateaux in the Geological Record. <i>Journal of Petrology</i> , 2000 , 41, 1041-1056 | 5.1 | 107 |
| 97 | Depleted mantle-plume geochemical signatures: No paradox for plume theories. <i>Geology</i> , 1995 , 23, 843-5 | 5 | 104 |
| 96 | 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 | 3.9 | 102 |
| 95 | 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 | 2.7 | 101 |
| 94 | Implications of ¹⁸⁷ Os isotopic heterogeneities in a mantle plume: evidence from Gorgona Island and Curaçao. <i>Geochimica Et Cosmochimica Acta</i> , 1999 , 63, 713-728 | 5.5 | 82 |
| 93 | 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 | 10.2 | 78 |
| 92 | Geochemistry of rare high-Nb basalt lavas: Are they derived from a mantle wedge metasomatised by slab melts?. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 5049-5072 | 5.5 | 77 |
| 91 | The internal structure of oceanic plateaus: inferences from obducted Cretaceous terranes in western Colombia and the Caribbean. <i>Tectonophysics</i> , 1998 , 292, 173-188 | 3.1 | 77 |
| 90 | Oceanic plateaus: Problematic plumes, potential paradigms. <i>Chemical Geology</i> , 2007 , 241, 332-353 | 4.2 | 77 |

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| 89 | 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 | 3.5 | 73 |
| 88 | 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 | 5 | 67 |
| 87 | 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 | 4.2 | 64 |
| 86 | 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 | | 62 |
| 85 | 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 | 2 | 59 |
| 84 | The geochemistry and tectonic setting of late Cretaceous Caribbean and Colombian volcanism. <i>Journal of South American Earth Sciences</i> , 1996 , 9, 111-120 | 2 | 59 |
| 83 | Geochemistry and petrogenesis of Cretaceous oceanic plateau lavas in eastern Jamaica. <i>Lithos</i> , 2008 , 101, 323-343 | 2.9 | 58 |
| 82 | Geochemical Evolution of the Tertiary Mull Volcano, Western Scotland. <i>Journal of Petrology</i> , 1999 , 40, 873-908 | 3.9 | 54 |
| 81 | Hafnium isotopic variations in volcanic rocks from the Caribbean Large Igneous Province and Galápagos hot spot tracks. <i>Geochemistry, Geophysics, Geosystems</i> , 2003 , 4, | 3.6 | 49 |
| 80 | La Isla de Gorgona, Colombia: A petrological enigma?. <i>Lithos</i> , 2005 , 84, 77-101 | 2.9 | 47 |
| 79 | Petrogenesis of picrites from the Caribbean Plateau and the North Atlantic magmatic province. <i>Lithos</i> , 1999 , 49, 1-21 | 2.9 | 47 |
| 78 | Hf/Nd 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 | 5.3 | 46 |
| 77 | Do Cenozoic analogues support a plate tectonic origin for Earth's earliest continental crust?. <i>Geology</i> , 2010 , 38, 495-498 | 5 | 45 |
| 76 | Geochemical components in a Cretaceous island arc: The Th/La[(Ce/Ce*)Nd diagram and implications for subduction initiation in the inter-American region. <i>Lithos</i> , 2013 , 162-163, 57-69 | 2.9 | 44 |
| 75 | Origin of the Aves Ridge and Dutch-Venezuelan Antilles: interaction of the Cretaceous 'Great Arc' and Caribbean-Colombian Oceanic Plateau?. <i>Journal of the Geological Society</i> , 2011 , 168, 333-348 | 2.7 | 44 |
| 74 | Paleocene (c. 62 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 | 3.9 | 41 |
| 73 | The Great Plume Debate: Testing the plume theory. <i>Chemical Geology</i> , 2007 , 241, 149-152 | 4.2 | 41 |
| 72 | Elemental, Hf/Nd 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 | 2.9 | 41 |

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| 71 | 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 | 4.2 | 41 |
| 70 | Iron isotopes in ancient and modern komatiites: Evidence in support of an oxidised mantle from Archean to present. <i>Earth and Planetary Science Letters</i> , 2012 , 321-322, 198-207 | 5.3 | 39 |
| 69 | Oceanic Plateaus 2014 , 631-667 | | 37 |
| 68 | Late Cretaceous alkaline sills of the south Tethyan suture zone, Pakistan: Initial melts of the RUnion hotspot?. <i>Lithos</i> , 2010 , 117, 161-171 | 2.9 | 37 |
| 67 | The Caribbean-Colombian Cretaceous Igneous Province: The Internal Anatomy of an Oceanic Plateau. <i>Geophysical Monograph Series</i> , 2013 , 123-144 | 1.1 | 36 |
| 66 | Enriched lithospheric mantle keel below the Scottish margin of the North Atlantic Craton: Evidence from the Palaeoproterozoic Scourie Dyke Swarm and mantle xenoliths. <i>Precambrian Research</i> , 2014 , 250, 97-126 | 3.9 | 35 |
| 65 | Composition and temperature of komatiite melts from Gorgona Island, Colombia, constrained from olivine-hosted melt inclusions. <i>Geology</i> , 2010 , 38, 1003-1006 | 5 | 34 |
| 64 | Supra-subduction zone tectonic setting of the Muslim Bagh Ophiolite, northwestern Pakistan: Insights from geochemistry and petrology. <i>Lithos</i> , 2014 , 202-203, 190-206 | 2.9 | 32 |
| 63 | A mantle plume origin for the Palaeoproterozoic Circum-Superior Large Igneous Province. <i>Precambrian Research</i> , 2017 , 294, 189-213 | 3.9 | 31 |
| 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 | 4.3 | 31 |
| 61 | 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 | 2.8 | 31 |
| 60 | The Early Proterozoic Matachewan Large Igneous Province: Geochemistry, Petrogenesis, and Implications for Earth Evolution. <i>Journal of Petrology</i> , 2015 , 56, 1459-1494 | 3.9 | 28 |
| 59 | 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 | 2 | 28 |
| 58 | Nickel isotopic composition of the mantle. <i>Geochimica Et Cosmochimica Acta</i> , 2017 , 199, 196-209 | 5.5 | 27 |
| 57 | Origin of the volcanic complexes of La Dsirade, Lesser Antilles: Implications for tectonic reconstruction of the Late Jurassic to Cretaceous Pacific-proto Caribbean margin. <i>Lithos</i> , 2010 , 120, 407-420 | 2.9 | 27 |
| 56 | 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 | 3.9 | 27 |
| 55 | 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 | 2.8 | 24 |
| 54 | The northern and southern sections of the western ca. 1880 Ma Circum-Superior Large Igneous Province, North America: The Pickle Crow dyke connection?. <i>Lithos</i> , 2013 , 174, 217-235 | 2.9 | 24 |

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| 53 | 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 | 3.6 | 23 |
| 52 | 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 | 5.3 | 23 |
| 51 | 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 | 2.9 | 23 |
| 50 | Extensive crustal extraction in Earth's early history inferred from molybdenum isotopes. <i>Nature Geoscience</i> , 2019 , 12, 946-951 | 18.3 | 21 |
| 49 | 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 | 2.9 | 20 |
| 48 | Red tuffs in the Palaeocene lava successions of the Inner Hebrides. <i>Scottish Journal of Geology</i> , 1996 , 32, 83-89 | 1.4 | 19 |
| 47 | 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 | 1.7 | 18 |
| 46 | The Albian-Turonian Island Arc Rocks of Tobago, West Indies: Geochemistry, Petrogenesis, and Caribbean Plate Tectonics. <i>Journal of Petrology</i> , 2013 , 54, 1607-1639 | 3.9 | 17 |
| 45 | 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 | 2.7 | 17 |
| 44 | 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 | 2.7 | 15 |
| 43 | The composition of mantle plumes and the deep Earth. <i>Earth and Planetary Science Letters</i> , 2016 , 444, 13-25 | 5.3 | 15 |
| 42 | Oxygen isotopes and volatile contents of the Gorgona komatiites, Colombia: A confirmation of the deep mantle origin of H ₂ O. <i>Earth and Planetary Science Letters</i> , 2016 , 454, 154-165 | 5.3 | 15 |
| 41 | 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 | 2.9 | 15 |
| 40 | Insights into the evolution of an alkaline magmatic system: An in situ trace element study of clinopyroxenes from the Ditr̄ Alkaline Massif, Romania. <i>Lithos</i> , 2018 , 300-301, 51-71 | 2.9 | 14 |
| 39 | Oceanic mafic magmatism in the Siletz terrane, NW North America: Fragments of an Eocene oceanic plateau?. <i>Lithos</i> , 2017 , 274-275, 291-303 | 2.9 | 13 |
| 38 | 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 ^{1.7} | 1.7 | 13 |
| 37 | Did mantle plume magmatism help trigger the Great Oxidation Event?. <i>Lithos</i> , 2016 , 246-247, 128-133 | 2.9 | 12 |
| 36 | The geochemistry and petrogenesis of the Paleoproterozoic du Chef dyke swarm, Qūbec, Canada. <i>Precambrian Research</i> , 2014 , 250, 151-166 | 3.9 | 12 |

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| 35 | Age and Petrogenesis of the Lower Cretaceous North Coast Schist of Tobago, a Fragment of the Proto-Greater Antilles Inter-American Arc System. <i>Journal of Geology</i> , 2012 , 120, 367-384 | 2 | 12 |
| 34 | Mineral chemistry of the Mull-Morvern Tertiary lava succession, western Scotland. <i>Mineralogical Magazine</i> , 1998 , 62, 295-312 | 1.7 | 11 |
| 33 | Sulphide Sinking in Magma Conduits: Evidence from Mafic-Ultramafic Plugs on Rum and the Wider North Atlantic Igneous Province. <i>Journal of Petrology</i> , 2016 , 57, 383-416 | 3.9 | 11 |
| 32 | Petrogenesis of High-MgO Lavas of the Lower Mull Plateau Group, Scotland: Insights from Melt Inclusions. <i>Journal of Petrology</i> , 2012 , 53, 1867-1886 | 3.9 | 10 |
| 31 | 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 | 1.4 | 9 |
| 30 | Vestiges of the proto-Caribbean seaway: Origin of the San Souci Volcanic Group, Trinidad. <i>Tectonophysics</i> , 2014 , 626, 170-185 | 3.1 | 7 |
| 29 | 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 | 4.2 | 6 |
| 28 | Petrogenesis and tectonomagmatic significance of Eocene mafic intrusions from the Neotethyan suture zone in the Muslim Bagh-Khanozai region, Pakistan. <i>Journal of the Geological Society</i> , 2016 , 173, 518-530 | 2.7 | 6 |
| 27 | 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 | 1.8 | 6 |
| 26 | Mantle plumes: physical processes, chemical signatures, biological effects?. <i>Lithos</i> , 2005 , 79, vii-x | 2.9 | 5 |
| 25 | Geochemical Evolution of the Tertiary Mull Volcano, Western Scotland | | 5 |
| 24 | 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 | 2.2 | 5 |
| 23 | 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 | 2 | 5 |
| 22 | Examining the case for the use of the Tertiary as a formal period or informal unit. <i>Proceedings of the Geologists Association</i> , 2012 , 123, 390-393 | 1.1 | 4 |
| 21 | Rethinking the origins of the red chert at La D irade, French West Indies. <i>Geological Society Special Publication</i> , 2009 , 328, 457-467 | 1.7 | 4 |
| 20 | 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 | 2 | 4 |
| 19 | 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 | 1.3 | 3 |
| 18 | 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 | 1.5 | 3 |

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| 17 | 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 | 2.2 | 3 |
| 16 | Asteroid impact and mass extinction at the K ^T boundary: an extinct red herring. <i>Geology Today</i> , 1997 , 13, 157-159 | 0.4 | 3 |
| 15 | 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 | | 3 |
| 14 | Current research in the British Tertiary Igneous Province. <i>Journal of the Geological Society</i> , 1993 , 150, 1193-1194 | 2.7 | 3 |
| 13 | Northeast- or southwest-dipping subduction in the Cretaceous Caribbean gateway?. <i>Lithos</i> , 2021 , 386-387, 105998 | 2.9 | 3 |
| 12 | 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 | 1.8 | 2 |
| 11 | The geochemistry and petrogenesis of the Blue Draw Metagabbro. <i>Lithos</i> , 2013 , 174, 271-290 | 2.9 | 2 |
| 10 | 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 | 1.7 | 2 |
| 9 | High-pressure fractionation in rift-related basaltic magmatism: Faeroe plateau basalts. <i>Geology</i> , 1995 , 23, 671 | 5 | 2 |
| 8 | 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 | 5.3 | 2 |
| 7 | Nature of the pre-collisional lithospheric mantle in Central Tibet: Insights to Tibetan Plateau uplift. <i>Lithos</i> , 2021 , 388-389, 106076 | 2.9 | 2 |
| 6 | 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 | 2.4 | 2 |
| 5 | Phanerozoic volcanism 2012 , 40-74 | | 1 |
| 4 | Petrology and geochemistry of volcanic and volcanoclastic rocks from Zhob ophiolite, North-Western Pakistan. <i>Arabian Journal of Geosciences</i> , 2021 , 14, 1 | 1.8 | 1 |
| 3 | 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 | 5.3 | 0 |
| 2 | Petrogenesis of Siletzia: The world's youngest oceanic plateau. <i>Results in Geochemistry</i> , 2020 , 1, 100004 | 2 | |
| 1 | The Fuchuan Ophiolite in South China: Evidence for Modern-Style Plate Tectonics During Rodinia Breakup. <i>Geochemistry, Geophysics, Geosystems</i> , 2021 , 22, e2021GC010137 | 3.6 | |