Brian L Cousens

List of Publications by Year
in descending order

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95	2,753	172457	214800
papers	citations	29 h-index	47 g-index

97	97	97	2422
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Multi-element and rare earth element composition of lichens, mosses, and vascular plants from the Central Barrenlands, Nunavut, Canada. Applied Geochemistry, 2001, 16, 245-270.	3.0	150
2	Subduction-modified pelagic sediments as the enriched component in back-arc basalts from the Japan Sea: Ocean Drilling Program Sites 797 and 794. Contributions To Mineralogy and Petrology, 1994, 117, 421-434.	3.1	105
3	Proterozoic (1.85â€“1.75 Ga) igneous suites of the Western Churchill Province: granitoid and ultrapotassic magmatism in a reworked Archean hinterland. Precambrian Research, 2002, 119, 73-100.	2.7	105
4	Magmatic evolution of Quaternary mafic magmas at Long Valley Caldera and the Devils Postpile, California: Effects of crustal contamination on lithospheric mantle-derived magmas. Journal of Geophysical Research, 1996, 101, 27673-27689.	3.3	91
5	Carbonatite and silicate melt metasomatism of the mantle surrounding the Hawaiian plume: Evidence from volatiles, trace elements, and radiogenic isotopes in rejuvenatedâ€stage lavas from Niihau, Hawaii. Geochemistry, Geophysics, Geosystems, 2008, 9, .	2.5	89
6	Uâ€“Pb baddeleyite ages and geochemistry of dolerite dykes in the Bas DrÃ¢a Inlier of the Anti-Atlas of Morocco: Newly identified 1380 Ma event in the West African Craton. Lithos, 2013, 174, 85-98.	1.4	82
7	Paleoproterozoic intracratonic basin processes, from breakup of Kenorland to assembly of Laurentia: Hurwitz Basin, Nunavut, Canada. Sedimentary Geology, 2001, 141-142, 287-318.	2.1	68
8	Geochemistry of the Archean Kam Group, Yellowknife Greenstone Belt, Slave Province, Canada. Journal of Geology, 2000, 108, 181-197.	1.4	65
9	Palaeozoic within-plate volcanic rocks in Nova Scotia (Canada) reinterpreted: isotopic constraints on magmatic source and palaeocontinental reconstructions. Geological Magazine, 1997, 134, 425-447.	1.5	62
10	Reply to Comment on â€œUâ€“Pb baddeleyite ages and geochemistry of dolerite dykes in the Bas-DrÃ¢a inlier of the Anti-Atlas of Morocco: Newly identified 1380Ma event in the West African Cratonâ€•by AndrÃ© Michard and Dominique Gasquet. Lithos, 2013, 174, 101-108.	1.4	60
11	Enriched Archean lithospheric mantle beneath western Churchill Province tapped during Paleoproterozoic orogenesis. Geology, 2001, 29, 827.	4.4	57
12	Mixing of magmas from enriched and depleted mantle sources in the northeast Pacific: West Valley segment, Juan de Fuca Ridge. Contributions To Mineralogy and Petrology, 1995, 120, 337-357.	3.1	56
13	Geology, geochronology, and geochemistry of the Mioceneâ€“Pliocene Ancestral Cascades arc, northern Sierra Nevada, California and Nevada: The roles of the upper mantle, subducting slab, and the Sierra Nevada lithosphere. , 2008, 4, 829.		55
14	Precipitation and growth of barite within hydrothermal vent deposits from the Endeavour Segment, Juan de Fuca Ridge. Geochimica Et Cosmochimica Acta, 2016, 173, 64-85.	3.9	55
15	Multiple sources of selenium in ancient seafloor hydrothermal systems: Compositional and Se, S, and Pb isotopic evidence from volcanic-hosted and volcanic-sediment-hosted massive sulfide deposits of the Finlayson Lake District, Yukon, Canada. Geochimica Et Cosmochimica Acta, 2013, 117, 313-331.	3.9	54
16	Isotopic patterns in silicic ignimbrites and lava flows of the Mogan and lower Fataga Formations, Gran Canaria, Canary Islands: temporal changes in mantle source composition. Earth and Planetary Science Letters, 1990, 96, 319-335.	4.4	53
17	Cretaceous to Cenozoic volcanism in South Korea and in the Sea of Japan: magmatic constraints on the opening of the back-arc basin. Geological Society Special Publication, 1994, 81, 169-191.	1.3	53
18	Chronology, chemistry, and origin of trachytes from Hualalai Volcano, Hawaii. Geochemistry, Geophysics, Geosystems, 2003, 4, n/a-n/a.	2.5	50

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19	Igneous Geochemistry of Mineralized Rocks of the Baguio District, Philippines: Implications for Tectonic Evolution and the Genesis of Porphyry-Style Mineralization. Economic Geology, 2011, 106, 1317-1333.	3.8	49
20	The Incompatible Element Characteristics of an Ancient Subducted Sedimentary Component in Ocean Island Basalts from French Polynesia. Journal of Petrology, 1998, 39, 937-952.	2.8	48
21	Geochemical characteristics of West Molokai shieldâ€•and postshieldâ€stage lavas: Constraints on Hawaiian plume models. Geochemistry, Geophysics, Geosystems, 2007, 8, .	2.5	48
22	Geochemical evidence for deep mantle melting and lithospheric delamination as the origin of the inland Damavand volcanic rocks of northern Iran. Journal of Volcanology and Geothermal Research, 2010, 198, 288-296.	2.1	47
23	Highly depleted oceanic lithosphere in the Rheic Ocean: Implications for Paleozoic plate reconstructions. Lithos, 2011, 123, 165-175.	1.4	46
24	Basalt geochemistry of the Explorer Ridge area, northeast Pacific Ocean. Canadian Journal of Earth Sciences, 1984, 21, 157-170.	1.3	43
25	Post-eruptive alteration of silicic ignimbrites and lavas, Gran Canaria, Canary Islands: Strontium, neodymium, lead, and oxygen isotopic evidence. Geochimica Et Cosmochimica Acta, 1993, 57, 631-640.	3.9	42
26	U-Pb geochronology of the plumbing system associated with the Late Cretaceous Strand Fiord Formation, Axel Heiberg Island, Canada: part of the 130-90 Ma High Arctic large igneous province. Journal of Geodynamics, 2018, 118, 106-117.	1.6	38
27	The Tuzo Wilson Volcanic Field, NE Pacific: Alkaline volcanism at a complex, diffuse, transformâ€trenchâ€ridge triple junction. Journal of Geophysical Research, 1993, 98, 22367-22387.	3.3	33
28	Growth and collapse of Waianae Volcano, Hawaii, as revealed by exploration of its submarine flanks. Geochemistry, Geophysics, Geosystems, 2004, 5, .	2.5	33
29	Shawinigan arc magmatism in the Adirondack Lowlands as a consequence of closure of the Trans-Adirondack backarc basin. , 2010, 6, 900-916.		33
30	Petrologic, tectonic, and metallogenic evolution of the southern segment of the ancestral Cascades magmatic arc, California and Nevada. , 2014, 10, 1-39.		32
31	Geochemistry and origin of volcanic rocks from Tuzo Wilson and Bowie seamounts, northeast Pacific Ocean. Canadian Journal of Earth Sciences, 1985, 22, 1609-1617.	1.3	31
32	Wyoming on the runâ€"Toward final Paleoproterozoic assembly of Laurentia. Geology, 2016, 44, 863-866.	4.4	31
33	Griffin gabbro sills (2.11 Ga), Hurwitz Basin, Nunavut, Canada: long-distance lateral transport of magmas in western Churchill Province crust. Precambrian Research, 2002, 117, 269-294.	2.7	29
34	Early history of the Midcontinent Rift inferred from geochemistry and sedimentology of the Mesoproterozoic Osler Group, northwestern Ontario. Canadian Journal of Earth Sciences, 2007, 44, 389-412.	1.3	29
35	Ancient carbonate sedimentary signature in the Hawaiian plume: Evidence from Mahukona volcano, Hawaii. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	29
36	Enriched Grenvillian lithospheric mantle as a consequence of long-lived subduction beneath Laurentia. Geology, 2010, 38, 151-154.	4.4	28

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37	Geochemistry of the late Archean Banting Group, Yellowknife greenstone belt, Slave Province, Canada: simultaneous melting of the upper mantle and juvenile mafic crust. Canadian Journal of Earth Sciences, 2002, 39, 1635-1656.	1.3	27
38	Shield to Rejuvenated Stage Volcanism on Kauai and Niihau, Hawaiian Islands. Journal of Petrology, 2015, 56, 1547-1584.	2.8	27
39	Secular variations in magmatism during a continental arc to post-arc transition: Plio-Pleistocene volcanism in the Lake Tahoe/Truckee area, Northern Sierra Nevada, California. Lithos, 2011, 123, 225-242.	1.4	26
40	Geochemistry and Smâ€“Nd isotopic composition of the Imiter Pan-African granitoids (Saghro massif,) Tj ETQq0 0 0 rgBT /Overlock 10 T 99-112.	2.0	24
41	Lead contamination from gold mining in Yellowknife Bay (Northwest Territories), reconstructed using stable lead isotopes. Environmental Pollution, 2020, 259, 113888.	7.5	24
42	Eocene shoshonitic mafic dykes intruding the Monashee Complex, British Columbia: a petrogenetic relationship with the Kamloops Group volcanic sequence?. Canadian Journal of Earth Sciences, 2005, 42, 11-24.	1.3	23
43	A submarine perspective of the Honolulu Volcanics, Oahu. Journal of Volcanology and Geothermal Research, 2006, 151, 279-307.	2.1	23
44	Petrogenesis of Gunbarrel magmatic rocks: Homogeneous continental tholeiites associated with extension and rifting of Neoproterozoic Laurentia. Precambrian Research, 2014, 252, 166-179.	2.7	23
45	The radiogenic isotope characteristics of dikes and sills associated with the Mesoproterozoic Midcontinent Rift near Thunder Bay, Ontario, Canada. Precambrian Research, 2012, 214-215, 269-279.	2.7	21
46	Palaeomagnetism, geochronology and geochemistry of the Palaeoproterozoic Rabbit Creek and Powder River dyke swarms: implications for Wyoming in supercraton Superia. Geological Society Special Publication, 2016, 424, 15-45.	1.3	21
47	Geochemical evolution of peraluminous plutons in southern Nova Scotia, Canadaâ€”a pegmatite-poor suite. Lithos, 1998, 44, 117-140.	1.4	20
48	Fluvial, lacustrine and volcanic sedimentation in the Angikuni sub-basin, and initiation of â¼1.84â€“1.79 Ga Baker Lake Basin, western Churchill Province, Nunavut, Canada. Precambrian Research, 2004, 129, 225-250.	2.7	20
49	Tectonic implications of the discovery of a Shawinigan ophiolite (Pyrites Complex) in the Adirondack Lowlands. , 2011, 7, 333-356.		20
50	Sequence stratigraphy, provenance, C and O isotopic composition, and correlation of the late Paleoproterozoicâ€“early Mesoproterozoic upper Hornby Bay and lower Dismal Lakes groups, NWT and Nunavut. Precambrian Research, 2013, 232, 209-225.	2.7	20
51	SHRIMP Uâ€“Pb zircon geochronology of the granitoids of the Imiter Inlier: Constraints on the Pan-African events in the Saghro massif, Anti-Atlas (Morocco). Journal of African Earth Sciences, 2019, 150, 799-810.	2.0	20
52	Metasedimentary influence on metavolcanic-rockâ€“hosted greenstone gold deposits: Geochemistry of the Giant mine, Yellowknife, Northwest Territories, Canada. Geology, 1999, 27, 71.	4.4	19
53	SULFIDE FORMATION RELATED TO CHANGES IN THE HYDROTHERMAL SYSTEM ON LOIHI SEAMOUNT, HAWAI'I, FOLLOWING THE SEISMIC EVENT IN 1996. Canadian Mineralogist, 2003, 41, 457-472.	1.0	19
54	Petrology and geochronology of Paleoproterozoic intrusive rocks, Kiggavik uranium camp, Nunavut. Canadian Journal of Earth Sciences, 2015, 52, 495-518.	1.3	19

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55	Lead isotopes in ground and surface waters: fingerprinting heavy metal sources in mineral exploration. Geochemistry: Exploration, Environment, Analysis, 2009, 9, 115-123.	0.9	18
56	Evidence for an enriched asthenospheric source for coronitic metagabbros in the Adirondack Highlands. , 2011, 7, 694-709.		18
57	Geochemistry of the highly evolved Sn-W-Mo-bearing Mount Douglas Granite, New Brunswick, Canada: Implications for origin and mineralization. Ore Geology Reviews, 2020, 117, 103266.	2.7	18
58	Geologic and Geochronologic Constraints on the Timing of Mineralization at the Nanisivik Zinc-Lead Mississippi Valley-Type Deposit, Northern Baffin Island, Nunavut, Canada. Economic Geology, 2004, 99, 279-293.	3.8	17
59	The distribution of geochemical heterogeneities in the source of Hawaiian shield lavas as revealed by a transect across the strike of the Loa and Kea spatial trends: East Molokai to West Molokai to Penguin Bank. Geochimica Et Cosmochimica Acta, 2014, 132, 214-237.	3.9	17
60	Petrogenesis and tectonic implications of the Eocene-Oligocene potassic felsic suites in western Yunnan, eastern Tibetan Plateau: Evidence from petrology, zircon chronology, elemental and Sr-Nd-Pb-Hf isotopic geochemistry. Lithos, 2019, 340-341, 287-315.	1.4	17
61	Lead isotope systematics of sulfide minerals in the Middle Valley hydrothermal system, northern Juan de Fuca Ridge. Geochemistry, Geophysics, Geosystems, 2002, 3, 1-16.	2.5	16
62	Depleted and Enriched Upper Mantle Sources for Basaltic Rocks from Diverse Tectonic Environments in the Northeast Pacific Ocean: The Generation of Oceanic Alkaline Vs. Tholeiitic Basalts. Geophysical Monograph Series, 0, , 207-231.	0.1	16
63	Isotopically depleted, alkalic lavas from Bowie Seamount, northeast Pacific Ocean. Canadian Journal of Earth Sciences, 1988, 25, 1708-1716.	1.3	15
64	Phosphorus and Potassium Metasomatic Enrichment in the Mantle Source of thec. 1450â€“1425â€‰Ma Michaelâ€“Shabogamo Gabbro of Eastern Laurentia. Journal of Petrology, 2019, 60, 57-83.	2.8	15
65	Radiogenic isotopes in enriched mid-ocean ridge basalts from Explorer Ridge, northeast Pacific Ocean. Geochimica Et Cosmochimica Acta, 2017, 213, 63-90.	3.9	14
66	Geochemical, isotopic, and Uâ€“Pb zircon study of the central and southern portions of the 780 Ma Gunbarrel Large Igneous Province in western Laurentia. Canadian Journal of Earth Sciences, 2019, 56, 738-755.	1.3	13
67	Distinct mantle sources for Plioceneâ€“Quaternary volcanism beneath the modern Sierra Nevada and adjacent Great Basin, northern California and western Nevada, USA. , 2012, 8, 562-580.		12
68	The Genesis of the Salt Diapir-Related Mississippi Valley-Type Ba-Pb-(Â± Zn) Ore of the Slata District, Tunisia: The Role of Halokinesis, Hydrocarbon Migration, and Alpine Orogenesis. Economic Geology, 2019, 114, 1599-1620.	3.8	12
69	Discerning asthenospheric, lithospheric, and crustal influences on the geochemistry of Quaternary basalts from the Iskutâ€“Unuk rivers area, northwestern British Columbia. Canadian Journal of Earth Sciences, 1995, 32, 1451-1461.	1.3	11
70	Continental tholeiitic mafic rocks of the Paleoproterozoic Hurwitz Group, Central Hearne sub-domain, Nunavut: insight into the evolution of the Hearne sub-continental lithosphere. Canadian Journal of Earth Sciences, 2003, 40, 1219-1237.	1.3	11
71	Dual sources of ensimatic magmas, Hearne domain, Western Churchill Province, Nunavut, Canada: Neorchean ?infant arc? processes?. Precambrian Research, 2004, 134, 169-188.	2.7	11
72	Geochemistry, geology, and isotopic (Sr, S, and B) composition of evaporites in the Lake St. Martin impact structure: New constraints on the age of melt rock formation. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	2.5	11

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73	Sources vs processes: Unraveling the compositional heterogeneity of rejuvenated-type Hawaiian magmas. Earth and Planetary Science Letters, 2019, 514, 119-129.	4.4	11
74	The Plioceneâ€“Quaternary Buffalo Valley volcanic field, Nevada: Post-extension, intraplate magmatism in the north-central Great Basin, USA. Journal of Volcanology and Geothermal Research, 2013, 268, 17-35.	2.1	10
75	Igneous rocks in the Fish Creek Mountains and environs, Battle Mountain area, north-central Nevada: A microcosm of Cenozoic igneous activity in the northern Great Basin, Basin and Range Province, USA. Earth-Science Reviews, 2019, 192, 403-444.	9.1	10
76	Initiation and early evolution of the Franklin magmatic event preserved in the 720ÂMa Natkusiak Formation, Victoria Island, Canadian Arctic. Bulletin of Volcanology, 2016, 78, 1.	3.0	8
77	Geochemistry, petrologic evolution, and ore deposits of the Miocene Bodie Hills Volcanic Field, California and Nevada. American Mineralogist, 2016, 101, 644-677.	1.9	8
78	Parentage of Archean basement within a Paleoproterozoic orogen and implications for on-craton diamond preservation: Slave craton and Wopmay orogen, northwest Canada. Canadian Journal of Earth Sciences, 2017, 54, 203-232.	1.3	8
79	The middle Eocene high-K magmatism in Eastern Iran Magmatic Belt: constraints from U-Pb zircon geochronology and Sr-Nd isotopic ratios. International Geology Review, 2020, 62, 1751-1768.	2.1	7
80	New constraints on the geochronology and Sm-Nd isotopic characteristics of Bas-DrÃ¢a mafic dykes, Anti-Atlas of Morocco. Journal of African Earth Sciences, 2017, 127, 77-87.	2.0	5
81	The High Arctic LIP in Canada: Trace element and Smâ€“Nd isotopic evidence for the role of mantle heterogeneity and crustal assimilation. Norwegian Journal of Geology, 2016, , .	0.5	5
82	Tectonic influence on late Proterozoic Avalonian magmatism: An example from the Greendale Complex, Antigonish Highlands, Nova Scotia, Canada. , 1997, , .		4
83	Multi-Element Analysis and Geochemical Spatial Trends of Groundwater in Rural Northern New York. Water (Switzerland), 2010, 2, 217-238.	2.7	4
84	A near-ridge origin for seamounts at the southern terminus of the Pratt-Welker Seamount Chain, northeast Pacific Ocean. Canadian Journal of Earth Sciences, 1999, 36, 1021-1031.	1.3	3
85	Constraints on the relationships between Paleoproterozoic intrusions and dyke swarms, East Arm of Great Slave Lake, N.W.T., Canada. Canadian Journal of Earth Sciences, 2014, 51, 419-438.	1.3	3
86	Mafic replenishment of multiple felsic reservoirs at the Mono domes and Mono Lake islands, California. Bulletin of Volcanology, 2017, 79, 1.	3.0	3
87	Geochemical study of Cenozoic mafic volcanism in the west-central Great Basin, western Nevada, and the Ancestral Cascades Arc, California. , 2020, 16, 1179-1207.		3
88	Stratigraphy and geochemistry of the Catoctin volcanics: Implications for mantle evolution during the breakup of Rodinia. , 2010, , .		3
89	Evidence for a Single Large Igneous Province at 2.11ÂGa across Supercraton Superia. Journal of Petrology, 2022, 63, .	2.8	2
90	Mixing of magmas from enriched and depleted mantle sources in the northeast Pacific: West Valley segment, Juan de Fuca Ridge. Contributions To Mineralogy and Petrology, 1995, 120, 337-357.	3.1	2

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91	Quaternary post-collisional high Nb-like basalts from Bijar-Qorveh, NW Iran: A metasomatized lithospheric mantle source. Lithos, 2022, 426-427, 106781.	1.4	2
92	Pyroxenitic magma conduits (ca. 1.86ÂGa) in Wopmay orogen and slave craton: Petrogenetic constraints from whole rock and mineral chemistry. Lithos, 2020, 354-355, 105220.	1.4	1
93	The evolution of metasomatic uranium ore systems in the Kitts-Post Hill belt of the Central Mineral Belt, Labrador, Canada. Ore Geology Reviews, 2020, 126, 103720.	2.7	1
94	Lithogeochemical and isotopic characterization of Devonian molybdenite mineralization in the Pabineau Falls Granite, northeastern New Brunswick, Canada. Journal of Geochemical Exploration, 2022, 234, 106925.	3.2	1
95	Wyoming on the runâ€"Toward final Paleoproterozoic assembly of Laurentia: REPLY. Geology, 2017, 45, e412-e412.	4.4	0