Larry M Heaman

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Mackenzie igneous events, Canada: Middle Proterozoic hotspot magmatism associated with ocean opening. Earth and Planetary Science Letters, 1989, 96, 38-48.	4.4	457
2	Paragenesis and U-Pb systematics of baddeleyite (ZrO2). Chemical Geology, 1993, 110, 95-126.	3.3	420
3	Nature and timing of Franklin igneous events, Canada: Implications for a Late Proterozoic mantle plume and the break-up of Laurentia. Earth and Planetary Science Letters, 1992, 109, 117-131.	4.4	330
4	The chemical composition of igneous zircon suites: implications for geochemical tracer studies. Geochimica Et Cosmochimica Acta, 1990, 54, 1597-1607.	3.9	307
5	1891–1883Ma Southern Bastar–Cuddapah mafic igneous events, India: A newly recognized large igneous province. Precambrian Research, 2008, 160, 308-322.	2.7	294
6	Clobal mafic magmatism at 2.45 Ga: Remnants of an ancient large igneous province?. Geology, 1997, 25, 299.	4.4	285
7	The application of U–Pb geochronology to mafic, ultramafic and alkaline rocks: An evaluation of three mineral standards. Chemical Geology, 2009, 261, 43-52.	3.3	242
8	Between carbonatite and lamproite—Diamondiferous Torngat ultramafic lamprophyres formed by carbonate-fluxed melting of cratonic MARID-type metasomes. Geochimica Et Cosmochimica Acta, 2008, 72, 3258-3286.	3.9	221
9	Timing of eastern North American kimberlite magmatism: continental extension of the Great Meteor hotspot track?. Earth and Planetary Science Letters, 2000, 178, 253-268.	4.4	203
10	Precise U–Pb dating of Paleoproterozoic mafic dyke swarms of the Dharwar craton, India: Implications for the existence of the Neoarchean supercraton Sclavia. Precambrian Research, 2010, 183, 416-441.	2.7	201
11	The temporal evolution of North American kimberlites. Lithos, 2004, 76, 377-397.	1.4	198
12	Gunbarrel mafic magmatic event: A key 780 Ma time marker for Rodinia plate reconstructions. Geology, 2003, 31, 1053.	4.4	178
13	The timing of kimberlite magmatism in North America: implications for global kimberlite genesis and diamond exploration. Lithos, 2003, 71, 153-184.	1.4	150
14	U–Pb zircon dating by laser ablation-MC-ICP-MS using a new multiple ion counting Faraday collector array. Journal of Analytical Atomic Spectrometry, 2005, 20, 677.	3.0	149
15	The newly discovered Jurassic Tikiusaaq carbonatite-aillikite occurrence, West Greenland, and some remarks on carbonatite–kimberlite relationships. Lithos, 2009, 112, 385-399.	1.4	112
16	Lu–Hf, in-situ Sr and Pb isotope and trace element systematics for mantle eclogites from the Diavik diamond mine: Evidence for Paleoproterozoic subduction beneath the Slave craton, Canada. Earth and Planetary Science Letters, 2007, 254, 55-68.	4.4	109
17	Mesoproterozoic kimberlites in south India: A possible link to â^1⁄41.1Ga global magmatism. Precambrian Research, 2007, 154, 192-204.	2.7	104
18	The nature of the subcontinental mantle from SrNdPb isotopic studies on kimberlitic perovskite. Earth and Planetary Science Letters, 1989, 92, 323-334.	4.4	103

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19	Torngat ultramafic lamprophyres and their relation to the North Atlantic Alkaline Province. Lithos, 2004, 76, 491-518.	1.4	93
20	Tectonomagmatic events during stretching and basin formation in the Labrador Sea and the Davis Strait: evidence from age and composition of Mesozoic to Palaeogene dyke swarms in West Greenland. Journal of the Geological Society, 2009, 166, 999-1012.	2.1	89
21	Diamond growth from oxidized carbon sources beneath the Northern Slave Craton, Canada: A δ13C–N study of eclogite-hosted diamonds from the Jericho kimberlite. Geochimica Et Cosmochimica Acta, 2011, 75, 6027-6047.	3.9	89
22	Multi-Stage Modification of the Northern Slave Mantle Lithosphere: Evidence from Zircon- and Diamond-Bearing Eclogite Xenoliths Entrained in Jericho Kimberlite, Canada. Journal of Petrology, 2006, 47, 821-858.	2.8	88
23	Diamondiferous kimberlites in central India synchronous with Deccan flood basalts. Earth and Planetary Science Letters, 2010, 290, 142-149.	4.4	88
24	The paleomagnetic significance of new U-Pb age data from the Molson dyke swarm, Cauchon Lake area, Manitoba. Canadian Journal of Earth Sciences, 2000, 37, 957-966.	1.3	86
25	The origin of high-MgO diamond eclogites from the Jericho Kimberlite, Canada. Earth and Planetary Science Letters, 2009, 284, 527-537.	4.4	85
26	U–Pb geochronology and geochemical variation within two Proterozoic mafic dyke swarms, Labrador. Canadian Journal of Earth Sciences, 1993, 30, 1490-1504.	1.3	81
27	Filling in the juvenile magmatic gap: Evidence for uninterrupted Paleoproterozoic plate tectonics. Earth and Planetary Science Letters, 2014, 388, 123-133.	4.4	79
28	Queen Maud block: A newly recognized Paleoproterozoic (2.4–2.5 Ga) terrane in northwest Laurentia. Geology, 2007, 35, 707.	4.4	66
29	The Archean Murmac Bay Group: evidence for a giant Archean rift in the Rae Province, Canada. Precambrian Research, 2004, 131, 345-372.	2.7	63
30	Feasibility of chemical U–Th–total Pb baddeleyite dating by electron microprobe. Chemical Geology, 2002, 188, 85-104.	3.3	61
31	Timing and geochemistry of 1.88Ga Molson Igneous Events, Manitoba: Insights into the formation of a craton-scale magmatic and metallogenic province. Precambrian Research, 2009, 172, 143-162.	2.7	61
32	Bilaterian Burrows and Grazing Behavior at >585 Million Years Ago. Science, 2012, 336, 1693-1696.	12.6	61
33	Age, petrogenesis and tectonic setting of the Thessalon volcanic rocks, Huronian Supergroup, Canada. Precambrian Research, 2013, 233, 144-172.	2.7	61
34	Sulfide and whole rock Re–Os systematics of eclogite and pyroxenite xenoliths from the Slave Craton, Canada. Earth and Planetary Science Letters, 2009, 283, 48-58.	4.4	56
35	New U–Pb baddeleyite and zircon ages for the Scourie dyke swarm: A long-lived large igneous province with implications for the Paleoproterozoic evolution of NW Scotland. Precambrian Research, 2014, 249, 180-198.	2.7	56
36	Ancient (Meso- to Paleoarchean) crust in the Rae Province, Canada: Evidence from Sm–Nd and U–Pb constraints. Precambrian Research, 2005, 141, 137-153.	2.7	53

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37	Duration and periodicity of kimberlite volcanic activity in the Lac de Gras kimberlite field, Canada and some recommendations for kimberlite geochronology. Lithos, 2015, 218-219, 155-166.	1.4	48
38	Extreme enrichment of high field strength elements in Jericho eclogite xenoliths: A cryptic record of Paleoproterozoic subduction, partial melting, and metasomatism beneath the Slave craton, Canada. Geology, 2002, 30, 507.	4.4	47
39	Timing of kimberlite, carbonatite, and ultramafic lamprophyre emplacement in the alkaline province located 64°–67° N in southern West Greenland. Lithos, 2009, 112, 400-406.	1.4	44
40	Post-Taltson sedimentary and intrusive history of the southern Rae Province along the northern margin of the Athabasca Basin, Western Canadian Shield. Precambrian Research, 2009, 175, 16-34.	2.7	43
41	A nitrogen isotope fractionation factor between diamond and its parental fluid derived from detailed SIMS analysis of a gem diamond and theoretical calculations. Chemical Geology, 2015, 410, 188-200.	3.3	40
42	Nature and evolution of the Slave Province subcontinental lithospheric mantleThis article is one of a series of papers published in this Special Issue on the theme <i>Lithoprobe — parameters, processes, and the evolution of a continent</i> Canadian Journal of Earth Sciences, 2010, 47, 369-388.	1.3	39
43	Petrogenesis of the Late Cretaceous northern Alberta kimberlite province. Lithos, 2004, 76, 435-459.	1.4	37
44	New depositional age constraints for the Murmac Bay group of the southern Rae craton, Canada. Precambrian Research, 2013, 232, 70-88.	2.7	37
45	Microxenoliths from the Slave craton: Archives of diamond formation along fluid conduits. Lithos, 2011, 126, 419-434.	1.4	36
46	A Record of Paleoproterozoic Subduction Preserved in the Northern Slave Cratonic Mantle: Sr–Pb–O Isotope and Trace-element Investigations of Eclogite Xenoliths from the Jericho and Muskox Kimberlites. Journal of Petrology, 2014, 55, 549-583.	2.8	35
47	Timing of high-pressure metamorphism in the Yukon – Tanana terrane, Canadian Cordillera: constraints from U – Pb zircon dating of eclogite from the Teslin tectonic zone. Canadian Journal of Earth Sciences, 1997, 34, 709-715.	1.3	34
48	U–Pb geochronology and Sr/Nd isotope compositions of groundmass perovskite from the newly discovered Jurassic Chidliak kimberlite field, Baffin Island, Canada. Earth and Planetary Science Letters, 2015, 415, 183-199.	4.4	33
49	Diamond ages from Victor (Superior Craton): Intra-mantle cycling of volatiles (C, N, S) during supercontinent reorganisation. Earth and Planetary Science Letters, 2018, 490, 77-87.	4.4	33
50	Dating Kimberlites: Methods and Emplacement Patterns Through Time. Elements, 2019, 15, 399-404.	0.5	33
51	Evidence for a dominantly reducing Archaean ambient mantle from two redox proxies, and low oxygen fugacity of deeply subducted oceanic crust. Scientific Reports, 2019, 9, 20190.	3.3	24
52	Ultramafic Carbonated Melt―and Autoâ€Metasomatism in Mantle Eclogites: Compositional Effects and Geophysical Consequences. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008774.	2.5	24
53	The Paleoproterozoic Kaminak dykes, Hearne craton, western Churchill Province, Nunavut, Canada: Preliminary constraints on their age and petrogenesis. Precambrian Research, 2013, 232, 119-139.	2.7	21
54	U Pb detrital zircon ages from some Neoproterozoic successions of Uruguay: Provenance, stratigraphy and tectonic evolution. Journal of South American Earth Sciences, 2016, 71, 108-130.	1.4	20

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55	Origin and evolution of mid- to late-Archean crust in the Hanikahimajuk Lake area, Slave Province, Canada; evidence from U–Pb geochronological, geochemical and Nd–Pb isotopic data. Precambrian Research, 2000, 99, 197-224.	2.7	19
56	Precise Pb isotope ratio determination of picogram-size samples: A comparison between multiple Faraday collectors equipped with 1012Ω amplifiers and multiple ion counters. Chemical Geology, 2015, 395, 27-40.	3.3	19
57	Ages and sources of mantle eclogites: ID-TIMS and in situ MC-ICPMS Pb-Sr isotope systematics of clinopyroxene. Chemical Geology, 2019, 503, 15-28.	3.3	18
58	A Review of the Geology of Global Diamond Mines and Deposits. Reviews in Mineralogy and Geochemistry, 2022, 88, 1-117.	4.8	18
59	Ediacaran in Uruguay: Facts and controversies. Journal of South American Earth Sciences, 2014, 55, 43-57.	1.4	15
60	Granulite sulphides as tracers of lower crustal origin and evolution: An example from the Slave craton, Canada. Geochimica Et Cosmochimica Acta, 2010, 74, 5368-5381.	3.9	14
61	Punctuated, long-lived emplacement history of the Renard 2 kimberlite, Canada, revealed by new high precision U-Pb groundmass perovskite dating. Mineralogy and Petrology, 2018, 112, 639-651.	1.1	13
62	Response to Comment on "Bilaterian Burrows and Grazing Behavior at >585 Million Years Ago". Science, 2013, 339, 906-906.	12.6	11
63	Geochronology, classification and mantle source characteristics of kimberlites and related rocks from the Rae Craton, Melville Peninsula, Nunavut, Canada. Mineralogy and Petrology, 2018, 112, 653-672.	1.1	11
64	Removal of continental lithosphere beneath the Canary archipelago revealed from a U Pb Age and Hf/O isotope study of modern sand detrital zircons. Lithos, 2020, 362-363, 105448.	1.4	6
65	Rb–Sr and U–Pb geochronology and setting of the Buffalo Head Hills kimberlite field, northern AlbertaThis article is one of a selection of papers published in this Special Issue on the theme <i>Geology of northeastern British Columbia and northwestern Alberta: diamonds, shallow gas, gravel, and glaciers</i> Canadian Journal of Earth Sciences, 2008, 45, 513-529.	1.3	5
66	A Comparison of Chronometers Applied to Monastery Kimberlite and the Feasibility of U-Pb Ilmenite Geochronology. , 2011, , 457-492.		5
67	The petrology of kimberlites from South Australia: Linking olivine macrocrystic and micaceous kimberlites. Journal of Volcanology and Geothermal Research, 2019, 373, 68-96.	2.1	4
68	Kimberlite-sourced bentonite, its paleoenvironment and implications for the Late Cretaceous K14 kimberlite cluster, northern AlbertaThis article is one of a selection of papers published in this Special Issue on the theme Geology of northeastern British Columbia and northwestern Alberta: diamonds, shallow gas, gravel, and glaciers Canadian Journal of Earth Sciences, 2008, 45, 531-547.	1.3	2
69	Uranium-Lead, Rubidium-Strontium, Kimberlite. , 2013, , 1-13.		2
70	The Assean Lake Complex. , 2019, , 703-722.		0
71	Uranium–Lead, Rubidium-Strontium, Kimberlite. Encyclopedia of Earth Sciences Series, 2015, , 907-914.	0.1	0