

Larry M Heaman

List of Publications by Year in descending order

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71
papers

6,170
citations

76326

40
h-index

98798

67
g-index

72
all docs

72
docs citations

72
times ranked

2904
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review of the Geology of Global Diamond Mines and Deposits. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 88, 1-117.	4.8	18
2	Ultramafic Carbonated Melt- and Auto- Metasomatism in Mantle Eclogites: Compositional Effects and Geophysical Consequences. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008774.	2.5	24
3	Removal of continental lithosphere beneath the Canary archipelago revealed from a U Pb Age and Hf/O isotope study of modern sand detrital zircons. <i>Lithos</i> , 2020, 362-363, 105448.	1.4	6
4	The petrology of kimberlites from South Australia: Linking olivine macrocrystic and micaceous kimberlites. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 373, 68-96.	2.1	4
5	Evidence for a dominantly reducing Archaean ambient mantle from two redox proxies, and low oxygen fugacity of deeply subducted oceanic crust. <i>Scientific Reports</i> , 2019, 9, 20190.	3.3	24
6	Dating Kimberlites: Methods and Emplacement Patterns Through Time. <i>Elements</i> , 2019, 15, 399-404.	0.5	33
7	Ages and sources of mantle eclogites: ID-TIMS and in situ MC-ICPMS Pb-Sr isotope systematics of clinopyroxene. <i>Chemical Geology</i> , 2019, 503, 15-28.	3.3	18
8	The Assean Lake Complex. , 2019, , 703-722.		0
9	Diamond ages from Victor (Superior Craton): Intra-mantle cycling of volatiles (C, N, S) during supercontinent reorganisation. <i>Earth and Planetary Science Letters</i> , 2018, 490, 77-87.	4.4	33
10	Punctuated, long-lived emplacement history of the Renard 2 kimberlite, Canada, revealed by new high precision U-Pb groundmass perovskite dating. <i>Mineralogy and Petrology</i> , 2018, 112, 639-651.	1.1	13
11	Geochronology, classification and mantle source characteristics of kimberlites and related rocks from the Rae Craton, Melville Peninsula, Nunavut, Canada. <i>Mineralogy and Petrology</i> , 2018, 112, 653-672.	1.1	11
12	U Pb detrital zircon ages from some Neoproterozoic successions of Uruguay: Provenance, stratigraphy and tectonic evolution. <i>Journal of South American Earth Sciences</i> , 2016, 71, 108-130.	1.4	20
13	U-Pb geochronology and Sr/Nd isotope compositions of groundmass perovskite from the newly discovered Jurassic Chidliak kimberlite field, Baffin Island, Canada. <i>Earth and Planetary Science Letters</i> , 2015, 415, 183-199.	4.4	33
14	Duration and periodicity of kimberlite volcanic activity in the Lac de Gras kimberlite field, Canada and some recommendations for kimberlite geochronology. <i>Lithos</i> , 2015, 218-219, 155-166.	1.4	48
15	A nitrogen isotope fractionation factor between diamond and its parental fluid derived from detailed SIMS analysis of a gem diamond and theoretical calculations. <i>Chemical Geology</i> , 2015, 410, 188-200.	3.3	40
16	Precise Pb isotope ratio determination of picogram-size samples: A comparison between multiple Faraday collectors equipped with $^{1012}\text{I}^{\ominus}$ amplifiers and multiple ion counters. <i>Chemical Geology</i> , 2015, 395, 27-40.	3.3	19
17	Uranium-Lead, Rubidium-Strontium, Kimberlite. <i>Encyclopedia of Earth Sciences Series</i> , 2015, , 907-914.	0.1	0
18	Filling in the juvenile magmatic gap: Evidence for uninterrupted Paleoproterozoic plate tectonics. <i>Earth and Planetary Science Letters</i> , 2014, 388, 123-133.	4.4	79

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19	Ediacaran in Uruguay: Facts and controversies. <i>Journal of South American Earth Sciences</i> , 2014, 55, 43-57.	1.4	15
20	A Record of Paleoproterozoic Subduction Preserved in the Northern Slave Cratonic Mantle: Sr- ⁸⁷ Rb- ⁸⁷ Sm-O Isotope and Trace-element Investigations of Eclogite Xenoliths from the Jericho and Muskox Kimberlites. <i>Journal of Petrology</i> , 2014, 55, 549-583.	2.8	35
21	New U- ²³⁸ 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. <i>Precambrian Research</i> , 2014, 249, 180-198.	2.7	56
22	Age, petrogenesis and tectonic setting of the Thessalon volcanic rocks, Huronian Supergroup, Canada. <i>Precambrian Research</i> , 2013, 233, 144-172.	2.7	61
23	New depositional age constraints for the Murmac Bay group of the southern Rae craton, Canada. <i>Precambrian Research</i> , 2013, 232, 70-88.	2.7	37
24	Response to Comment on "Bilaterian Burrows and Grazing Behavior at >585 Million Years Ago". <i>Science</i> , 2013, 339, 906-906.	12.6	11
25	The Paleoproterozoic Kaminak dykes, Hearne craton, western Churchill Province, Nunavut, Canada: Preliminary constraints on their age and petrogenesis. <i>Precambrian Research</i> , 2013, 232, 119-139.	2.7	21
26	Uranium-Lead, Rubidium-Strontium, Kimberlite. , 2013, , 1-13.		2
27	Bilaterian Burrows and Grazing Behavior at >585 Million Years Ago. <i>Science</i> , 2012, 336, 1693-1696.	12.6	61
28	Diamond growth from oxidized carbon sources beneath the Northern Slave Craton, Canada: A ¹³ C- ¹³ N study of eclogite-hosted diamonds from the Jericho kimberlite. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6027-6047.	3.9	89
29	Microxenoliths from the Slave craton: Archives of diamond formation along fluid conduits. <i>Lithos</i> , 2011, 126, 419-434.	1.4	36
30	A Comparison of Chronometers Applied to Monastery Kimberlite and the Feasibility of U-Pb Ilmenite Geochronology. , 2011, , 457-492.		5
31	Nature and evolution of the Slave Province subcontinental lithospheric mantle This article is one of a series of papers published in this Special Issue on the theme <i>Lithoprobe ⁸⁷Sr</i> parameters, processes, and the evolution of a continent</i>.. <i>Canadian Journal of Earth Sciences</i> , 2010, 47, 369-388.	1.3	39
32	Granulite sulphides as tracers of lower crustal origin and evolution: An example from the Slave craton, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5368-5381.	3.9	14
33	Diamondiferous kimberlites in central India synchronous with Deccan flood basalts. <i>Earth and Planetary Science Letters</i> , 2010, 290, 142-149.	4.4	88
34	Precise U- ²³⁸ Pb dating of Paleoproterozoic mafic dyke swarms of the Dharwar craton, India: Implications for the existence of the Neoproterozoic supercraton Sclavia. <i>Precambrian Research</i> , 2010, 183, 416-441.	2.7	201
35	The newly discovered Jurassic Tikiusaaq carbonatite-aillikite occurrence, West Greenland, and some remarks on carbonatite- ⁸⁷ Sr- ⁸⁷ Sm kimberlite relationships. <i>Lithos</i> , 2009, 112, 385-399.	1.4	112
36	Timing of kimberlite, carbonatite, and ultramafic lamprophyre emplacement in the alkaline province located 64°-67° N in southern West Greenland. <i>Lithos</i> , 2009, 112, 400-406.	1.4	44

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37	Sulfide and whole rock Re-Os systematics of eclogite and pyroxenite xenoliths from the Slave Craton, Canada. <i>Earth and Planetary Science Letters</i> , 2009, 283, 48-58.	4.4	56
38	The origin of high-MgO diamond eclogites from the Jericho Kimberlite, Canada. <i>Earth and Planetary Science Letters</i> , 2009, 284, 527-537.	4.4	85
39	The application of U-Pb geochronology to mafic, ultramafic and alkaline rocks: An evaluation of three mineral standards. <i>Chemical Geology</i> , 2009, 261, 43-52.	3.3	242
40	Timing and geochemistry of 1.88Ga Molson Igneous Events, Manitoba: Insights into the formation of a craton-scale magmatic and metallogenic province. <i>Precambrian Research</i> , 2009, 172, 143-162.	2.7	61
41	Post-Taltson sedimentary and intrusive history of the southern Rae Province along the northern margin of the Athabasca Basin, Western Canadian Shield. <i>Precambrian Research</i> , 2009, 175, 16-34.	2.7	43
42	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. <i>Journal of the Geological Society</i> , 2009, 166, 999-1012.	2.1	89
43	1891-1883Ma Southern Bastar-Cuddapah mafic igneous events, India: A newly recognized large igneous province. <i>Precambrian Research</i> , 2008, 160, 308-322.	2.7	294
44	Between carbonatite and lamproite-Diamondiferous Torngat ultramafic lamprophyres formed by carbonate-fluxed melting of cratonic MARID-type metasomes. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3258-3286.	3.9	221
45	Kimberlite-sourced bentonite, its paleoenvironment and implications for the Late Cretaceous K14 kimberlite cluster, northern Alberta This 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. <i>Canadian Journal of Earth Sciences</i> , 2008, 45, 531-547.	1.3	2
46	Rb-Sr and U-Pb geochronology and setting of the Buffalo Head Hills kimberlite field, northern Alberta This 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. <i>Canadian Journal of Earth Sciences</i> , 2008, 45, 513-529.	1.3	5
47	Queen Maud block: A newly recognized Paleoproterozoic (2.4-2.5 Ga) terrane in northwest Laurentia. <i>Geology</i> , 2007, 35, 707.	4.4	66
48	Mesoproterozoic kimberlites in south India: A possible link to ~1.1Ga global magmatism. <i>Precambrian Research</i> , 2007, 154, 192-204.	2.7	104
49	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. <i>Earth and Planetary Science Letters</i> , 2007, 254, 55-68.	4.4	109
50	Multi-Stage Modification of the Northern Slave Mantle Lithosphere: Evidence from Zircon- and Diamond-Bearing Eclogite Xenoliths Entrained in Jericho Kimberlite, Canada. <i>Journal of Petrology</i> , 2006, 47, 821-858.	2.8	88
51	Ancient (Meso- to Paleoproterozoic) crust in the Rae Province, Canada: Evidence from Sm-Nd and U-Pb constraints. <i>Precambrian Research</i> , 2005, 141, 137-153.	2.7	53
52	U-Pb zircon dating by laser ablation-MC-ICP-MS using a new multiple ion counting Faraday collector array. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 677.	3.0	149
53	Torngat ultramafic lamprophyres and their relation to the North Atlantic Alkaline Province. <i>Lithos</i> , 2004, 76, 491-518.	1.4	93
54	Petrogenesis of the Late Cretaceous northern Alberta kimberlite province. <i>Lithos</i> , 2004, 76, 435-459.	1.4	37

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55	The temporal evolution of North American kimberlites. <i>Lithos</i> , 2004, 76, 377-397.	1.4	198
56	The Archean Murmac Bay Group: evidence for a giant Archean rift in the Rae Province, Canada. <i>Precambrian Research</i> , 2004, 131, 345-372.	2.7	63
57	The timing of kimberlite magmatism in North America: implications for global kimberlite genesis and diamond exploration. <i>Lithos</i> , 2003, 71, 153-184.	1.4	150
58	Gunbarrel mafic magmatic event: A key 780 Ma time marker for Rodinia plate reconstructions. <i>Geology</i> , 2003, 31, 1053.	4.4	178
59	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. <i>Geology</i> , 2002, 30, 507.	4.4	47
60	Feasibility of chemical U-Th-total Pb baddeleyite dating by electron microprobe. <i>Chemical Geology</i> , 2002, 188, 85-104.	3.3	61
61	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. <i>Precambrian Research</i> , 2000, 99, 197-224.	2.7	19
62	Timing of eastern North American kimberlite magmatism: continental extension of the Great Meteor hotspot track?. <i>Earth and Planetary Science Letters</i> , 2000, 178, 253-268.	4.4	203
63	The paleomagnetic significance of new U-Pb age data from the Molson dyke swarm, Cauchon Lake area, Manitoba. <i>Canadian Journal of Earth Sciences</i> , 2000, 37, 957-966.	1.3	86
64	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. <i>Canadian Journal of Earth Sciences</i> , 1997, 34, 709-715.	1.3	34
65	Global mafic magmatism at 2.45 Ga: Remnants of an ancient large igneous province?. <i>Geology</i> , 1997, 25, 299.	4.4	285
66	Paragenesis and U-Pb systematics of baddeleyite (ZrO ₂). <i>Chemical Geology</i> , 1993, 110, 95-126.	3.3	420
67	U-Pb geochronology and geochemical variation within two Proterozoic mafic dyke swarms, Labrador. <i>Canadian Journal of Earth Sciences</i> , 1993, 30, 1490-1504.	1.3	81
68	Nature and timing of Franklin igneous events, Canada: Implications for a Late Proterozoic mantle plume and the break-up of Laurentia. <i>Earth and Planetary Science Letters</i> , 1992, 109, 117-131.	4.4	330
69	The chemical composition of igneous zircon suites: implications for geochemical tracer studies. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 1597-1607.	3.9	307
70	The nature of the subcontinental mantle from SrNdPb isotopic studies on kimberlitic perovskite. <i>Earth and Planetary Science Letters</i> , 1989, 92, 323-334.	4.4	103
71	Mackenzie igneous events, Canada: Middle Proterozoic hotspot magmatism associated with ocean opening. <i>Earth and Planetary Science Letters</i> , 1989, 96, 38-48.	4.4	457