C Michael Lesher

List of Publications by Year
in descending order

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63	5,015	136885	128225
papers	citations	32 h-index	60 g-index

68	68	68	2695
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Genesis and mechanisms of metal enrichment in the Baimazhai Ni-Cu-(PGE) deposit, Ailaoshan Orogenic Belt, SW China. Canadian Mineralogist, 2021, 59, 1543-1570.	0.3	0
2	Genesis of the Jinbaoshan PGE-(Cu)-(Ni) deposit: Distribution of chalcophile elements and platinum-group minerals. Canadian Mineralogist, 2021, 59, 1511-1542.	0.3	2
3	Geochemistry and Petrogenesis of Mafic and Ultramafic Inclusions in Sublayer and Offset Dikes, Sudbury Igneous Complex, Canada. Journal of Petrology, 2020, 61, .	1.1	2
4	Geochemistry and genesis of magmatic Ni-Cu-(PGE) and PGE-(Cu)-(Ni) deposits in China. Ore Geology Reviews, 2019, 107, 863-887.	1.1	36
5	Lowâ€‹P and highâ€‹T metamorphism of basalts: Insights from the Sudbury impact melt sheet aureole and thermodynamic modelling. Journal of Metamorphic Geology, 2019, 37, 271-313.	1.6	17
6	Expanding the size of multi-parameter metasomatic footprints in gold exploration: utilization of mafic dykes in the Canadian Malartic district, QuÃ©bec, Canada. Mineralium Deposita, 2019, 54, 761-786.	1.7	12
7	Droplets and Bubbles: Solidification of Sulphide-rich Vapour-saturated Orthocumulates in the Norilsk-Talnakh Niâ€“Cuâ€“PGE Ore-bearing Intrusions. Journal of Petrology, 2019, 60, 269-300.	1.1	53
8	Shock metamorphic features in mafic and ultramafic inclusions in the Sudbury Igneous Complex: Implications for their origin and impact excavation. Geology, 2018, 46, 443-446.	2.0	5
9	Decoupling of Zr-Hf during contact metamorphic anatexis of metabasalts and timing of zircon growth, Sudbury, Canada. Geology, 2018, 46, 159-162.	2.0	7
10	Sulfide-silicate textures in magmatic Ni-Cu-PGE sulfide ore deposits: Disseminated and net-textured ores. American Mineralogist, 2017, 102, 473-506.	0.9	108
11	New Feldspar Lead Isotope and Trace Element Evidence from the Sudbury Igneous Complex Indicate a Complex Origin of Associated Ni-Cu-PGE Mineralization Involving Underlying Country Rocks. Economic Geology, 2017, 112, 569-590.	1.8	11
12	Roles of xenomelts, xenoliths, xenocrysts, xenovolatiles, residues, and skarns in the genesis, transport, and localization of magmatic Fe-Ni-Cu-PGE sulfides and chromite. Ore Geology Reviews, 2017, 90, 465-484.	1.1	53
13	Age constraints and geochemical evolution of the Neoarchean maficâ€“ultramafic Wabassi Intrusive Complex in the Miminiskaâ€“Fort Hope greenstone belt, Superior Province, Canada. Precambrian Research, 2016, 286, 101-125.	1.2	3
14	Mode of emplacement of Archean komatiitic tuffs and flows in the Selkirk Bay area, Melville Peninsula, Nunavut, Canada. Precambrian Research, 2015, 263, 174-196.	1.2	12
15	Geochemistry of Deformed and Hydrothermally Mobilized Magmatic Ni-Cu-PGE Ores at the Garson Mine, Sudbury. Economic Geology, 2014, 109, 367-386.	1.8	8
16	Deformation, metamorphism, and mobilization of Niâ€“Cuâ€“PGE sulfide ores at Garson Mine, Sudbury. Mineralium Deposita, 2014, 49, 175-198.	1.7	25
17	Physical Volcanology and Genesis of Komatiite-Associated Ni-Cu-(PGE) Mineralization in the C Zone, Bannockburn Township, Ontario. Economic Geology, 2012, 107, 835-857.	1.8	4
18	Back-thrusting and overturning of the southern margin of the 1.85Ga Sudbury Igneous Complex at the Garson mine, Sudbury, Ontario. Precambrian Research, 2012, 196-197, 81-105.	1.2	12

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19	Genesis of PGE mineralization in the Wengeqi maficâ€“ultramafic complex, Guyang County, Inner Mongolia, China. Mineralium Deposita, 2012, 47, 197-207.	1.7	13
20	Thermomechanical erosion at the Alexo Mine, Abitibi greenstone belt, Ontario: implications for the genesis of komatiite-associated Niâ€“Cuâ€“(PGE) mineralization. Mineralium Deposita, 2012, 47, 105-128.	1.7	32
21	Preface for thematic issue on Niâ€“Cuâ€“PGE deposits. Mineralium Deposita, 2012, 47, 1-2.	1.7	6
22	Mathematical modeling of thermomechanical erosion beneath Proterozoic komatiitic basaltic sinuous rilles in the Cape Smith Belt, New QuÃ©bec, Canada. Mineralium Deposita, 2011, 46, 943-958.	1.7	22
23	Platinum Group Element Geochemistry of Mineralized and Nonmineralized Komatiites and Basalts. Economic Geology, 2010, 105, 795-823.	1.8	76
24	Komatiitic Sills and Multigenerational Peperite at Dundonald Beach, Abitibi Greenstone Belt, Ontario: Volcanic Architecture and Nickel Sulfide Distribution. Economic Geology, 2008, 103, 1269-1284.	1.8	34
25	Geochemistry of komatiites in the Eastern Goldfields Superterrane, Western Australia and the Abitibi Greenstone Belt, Canada, and implications for the distribution of associated Niâ€“Cuâ€“PGE deposits. Transactions of the Institution of Mining and Metallurgy Section B-Applied Earth Science, 2007, 116, 167-187.	0.8	32
26	Temperatures in ambient mantle and plumes: Constraints from basalts, picrites, and komatiites. Geochemistry, Geophysics, Geosystems, 2007, 8, n/a-n/a.	1.0	571
27	Comparative lithogeochemistry of komatiites in the Norseman-Wiluna and Abitibi Greenstone Belts, and implications for nickel sulfide targeting. ASEG Extended Abstracts, 2006, 2006, 1-3.	0.1	0
28	QUANTITATIVE MASS BALANCE OF PLATINUM GROUP ELEMENTS IN THE KELLY LAKE Ni-Cu-PGE DEPOSIT, COPPER CLIFF OFFSET, SUDBURY. Economic Geology, 2005, 100, 1631-1646.	1.8	36
29	Chalcophile Element Geochemistry and Metallogenesis of Komatiitic Rocks in the Abitibi Greenstone Belt, Canada. Economic Geology, 2005, 100, 1169-1190.	1.8	22
30	Re-Os systematics of komatiites and komatiitic basalts at Dundonald Beach, Ontario, Canada: Evidence for a complex alteration history and implications of a late-Archean chondritic mantle source. Geochimica Et Cosmochimica Acta, 2005, 69, 5087-5098.	1.6	14
31	Geochemistry, Petrogenesis and Metallogenesis of the Panzhihua Gabbroic Layered Intrusion and Associated Feâ€“Tiâ€“V Oxide Deposits, Sichuan Province, SW China. Journal of Petrology, 2005, 46, 2253-2280.	1.1	376
32	Mantle-Derived Magmas and Magmatic Ni-Cu-(PGE) Deposits. , 2005, , .		86
33	Intrusion and Crystallization of a Spinifex-Textured Komatiite Sill in Dundonald Township, Ontario. Journal of Petrology, 2004, 45, 2555-2571.	1.1	25
34	TRACE ELEMENT GEOCHEMISTRY AND PETROGENESIS OF FELSIC VOLCANIC ROCKS ASSOCIATED WITH VOLCANOGENIC MASSIVE Cu-Zn-Pb SULFIDE DEPOSITS. Economic Geology, 2004, 99, 1003-1013.	1.8	167
35	Erosion by flowing lava: geochemical evidence in the Cave Basalt, Mount St. Helens, Washington. Bulletin of Volcanology, 2004, 66, 168-181.	1.1	34
36	Geochemistry and petrogenesis of 270 Ma Niâ€“Cuâ€“(PGE) sulfide-bearing mafic intrusions in the Huangshan district, Eastern Xinjiang, Northwest China: implications for the tectonic evolution of the Central Asian orogenic belt. Chemical Geology, 2004, 209, 233-257.	1.4	372

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37	Platinum group element geochemistry of komatiites from the Alexo and Pyke Hill areas, Ontario, Canada 1 1Associate editor: R. J. Walker. Geochimica Et Cosmochimica Acta, 2004, 68, 1361-1383.	1.6	166
38	A Special Issue Devoted to the Mineral Deposits of the Sudbury Basin. Economic Geology, 2002, 97, 1373-1375.	1.8	11
39	Neoproterozoic Arcâ€Related Mafic Intrusions along the Northern Margin of South China: Implications for the Accretion of Rodinia. Journal of Geology, 2002, 110, 611-618.	0.7	304
40	A temporal link between the Emeishan large igneous province (SW China) and the end-Guadalupian mass extinction. Earth and Planetary Science Letters, 2002, 196, 113-122.	1.8	535
41	A Special Issue Devoted to the Mineral Deposits of the Sudbury Basin. Economic Geology, 2002, 97, 1373-1375.	1.8	0
42	Chlorine and Alkali Geochemical Halos in the Footwall Brecciaand Sublayer Norite at the Margin of the Strathcona Embayment, SudburyStructure, Ontario. Economic Geology, 2002, 97, 1509-1519.	1.8	12
43	TRACE-ELEMENT GEOCHEMISTRY AND PETROGENESIS OF BARREN AND ORE-ASSOCIATED KOMATIITES. Canadian Mineralogist, 2001, 39, 673-696.	0.3	125
44	MULTICOMPONENT ELEMENTAL AND ISOTOPIC MIXING IN Ni Cu (PGE) ORES AT KAMBALDA, WESTERN AUSTRALIA. Canadian Mineralogist, 2001, 39, 421-446.	0.3	117
45	Analytical/numerical modeling of komatiite lava emplacement and thermal erosion at Perseverance, Western Australia. Journal of Volcanology and Geothermal Research, 2001, 110, 27-55.	0.8	62
46	Emplacement and erosion by Archean komatiite lava flows at Kambalda: Revisited. Journal of Geophysical Research, 1998, 103, 27533-27549.	3.3	103
47	Evidence for hydrous high-MgO melts in the Precambrian. Geology, 1997, 25, 143.	2.0	71
48	Geology, genesis, and metamorphic history of the Namew Lake Ni-Cu deposit, Manitoba. Economic Geology, 1996, 91, 1394-1413.	1.8	12
49	Metamorphism and gold mineralization in the Blue Ridge, southernmost Appalachians. Economic Geology, 1996, 91, 1115-1144.	1.8	12
50	REE and Nd isotope geochemistry, petrogenesis and volcanic evolution of contaminated komatiites at Kambalda, Western Australia. Lithos, 1995, 34, 127-157.	0.6	159
51	Geochemistry of mineralised and barren komatiites from the Perseverance nickel deposit, Western Australia. Lithos, 1995, 34, 209-234.	0.6	59
52	Geochemical and fluid dynamic modeling of compositional variations in Archean komatiite-hosted nickel sulfide ores in Western Australia. Economic Geology, 1993, 88, 804-816.	1.8	125
53	Fractionation of REEs by olivine and the origin of Kambalda komatiites, Western Australia. Geochimica Et Cosmochimica Acta, 1992, 56, 4191-4204.	1.6	48
54	Hydrothermal alteration of mafic metavolcanic rocks and genesis of Fe-Zn-Cu sulfide deposits, Stone Hill District, Alabama. Economic Geology, 1991, 86, 983-1001.	1.8	11

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55	Trace-element geochemistry of ore-associated and barren, felsic metavolcanic rocks in the Superior Province, Canada: Reply. Canadian Journal of Earth Sciences, 1987, 24, 1500-1501.	0.6	4
56	Trace-element geochemistry of ore-associated and barren, felsic metavolcanic rocks in the Superior Province, Canada. Canadian Journal of Earth Sciences, 1986, 23, 222-237.	0.6	227
57	Composition-volume changes during hydrothermal alteration of andesite at Buttercup Hill, Noranda District, Quebec. Geochimica Et Cosmochimica Acta, 1986, 50, 2693-2705.	1.6	48
58	Comparison of Archean dunites and komatiites associated with nickel mineralisation in Western Australia: Implications for dunite genesis. Mineralium Deposita, 1986, 21, 296.	1.7	37
59	Thermal erosion by komatiites at Kambalda, Western Australia and the genesis of nickel ores. Nature, 1986, 319, 136-139.	13.7	77
60	Controls on the Formation of Komatiite-Associated Nickel-Copper Sulfide Deposits. Special Publication ... of the Society for Geology Applied To Mineral Deposits, 1986, , 43-62.	0.1	42
61	Rare-earth element mobility in alteration pipes below massive Cuî—¸Zn-sulfide deposits. Chemical Geology, 1984, 45, 181-202.	1.4	119
62	Geochemistry of komatiites from Kambalda, Western Australia; I, Chalcophile element depletion, a consequence of sulfide liquid separation from komatiitic magmas. Economic Geology, 1981, 76, 1714-1728.	1.8	47
63	Mineralogy and petrology of the Sokoman Iron Formation near Ardua Lake, Quebec. Canadian Journal of Earth Sciences, 1978, 15, 480-500.	0.6	20