Robert L Linnen

List of Publications by Year
in descending order

68	3,350	159585 30	144013 57
papers	citations	h-index	g-index

70	70	70	1811
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Melt composition control of Zr/Hf fractionation in magmatic processes. Geochimica Et Cosmochimica Acta, 2002, 66, 3293-3301.	3.9	350
2	Columbite solubility in granitic melts: consequences for the enrichment and fractionation of Nb and Ta in the Earth's crust. Contributions To Mineralogy and Petrology, 1997, 128, 213-227.	3.1	324
3	Granitic Pegmatites as Sources of Strategic Metals. Elements, 2012, 8, 275-280.	0.5	270
4	The solubility of Nb-Ta-Zr-Hf-W in granitic melts with Li and Li + F; constraints for mineralization in rare metal granites and pegmatites. Economic Geology, 1998, 93, 1013-1025.	3.8	229
5	High gold concentrations in sulphide-bearing magma under oxidizing conditions. Nature Geoscience, 2011, 4, 112-115.	12.9	177
6	The combined effects of fO2 and melt composition on SnO2 solubility and tin diffusivity in haplogranitic melts. Geochimica Et Cosmochimica Acta, 1996, 60, 4965-4976.	3.9	163
7	The effect of on the solubility, diffusion, and speciation of tin in haplogranitic melt at 850Â°C and 2 kbar. Geochimica Et Cosmochimica Acta, 1995, 59, 1579-1588.	3.9	121
8	Solubility of cassiterite in evolved granitic melts: effect of T, fO2, and additional volatiles. Lithos, 2005, 80, 387-400.	1.4	90
9	Tungsten solubility in evolved granitic melts: An evaluation of magmatic wolframite. Geochimica Et Cosmochimica Acta, 2013, 106, 84-98.	3.9	84
10	Trace element geochemistry by laser ablation ICP-MS of micas associated with Ta mineralization in the Tanco pegmatite, Manitoba, Canada. Contributions To Mineralogy and Petrology, 2008, 155, 791-806.	3.1	83
11	Geochemistry of the Rare-Earth Element, Nb, Ta, Hf, and Zr Deposits. , 2014, , 543-568.		77
12	REDOX AND SPECIATION OF TIN IN HYDROUS SILICATE GLASSES: A COMPARISON WITH Nb, Ta, Mo AND W. Canadian Mineralogist, 2006, 44, 795-810.	1.0	71
13	Effects of fluorine on the solubilities of Nb, Ta, Zr and Hf minerals in highly fluxed water-saturated haplogranitic melts. Ore Geology Reviews, 2015, 64, 736-746.	2.7	65
14	Depth of emplacement, fluid provenance and metallogeny in granitic terranes: a comparison of western Thailand with other tin belts. Mineralium Deposita, 1998, 33, 461-476.	4.1	64
15	Influence of fluorine on the solubility of manganotantalite (MnTa2O6) and manganocolumbite (MnNb2O6) in granitic melts â€" An experimental study. Lithos, 2011, 122, 165-174.	1.4	59
16	Solubility of manganotantalite and manganocolumbite in pegmatitic melts. American Mineralogist, 2010, 95, 537-544.	1.9	58
17	DISTRIBUTION OF TRACE AND RARE EARTH ELEMENTS IN TITANITE FROM TUNGSTEN AND MOLYBDENUM DEPOSITS IN YUKON AND BRITISH COLUMBIA, CANADA. Canadian Mineralogist, 2013, 51, 415-438.	1.0	58
18	A filler-rod technique for controlling redox conditions in cold-seal pressure vessels. American Mineralogist, 2003, 88, 701-707.	1.9	55

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19	Solubility of Au in Cl- and S-bearing hydrous silicate melts. Geochimica Et Cosmochimica Acta, 2010, 74, 2396-2411.	3.9	54
20	Viscosity of flux-rich pegmatitic melts. Contributions To Mineralogy and Petrology, 2011, 162, 51-60.	3.1	53
21	Genesis of a magmatic metamorphic hydrothermal system; the Sn-W polymetallic deposits at Pilok, Thailand. Economic Geology, 1995, 90, 1148-1166.	3.8	48
22	Evolution of aqueous-carbonic fluids during contact metamorphism, wall-rock alteration, and molybdenite deposition at Trout Lake, British Columbia. Economic Geology, 1990, 85, 1840-1856.	3.8	47
23	The effect of water on accessory phase solubility in subaluminous and peralkaline granitic melts. Lithos, 2005, 80, 267-280.	1.4	46
24	Mica composition as a vector to gold mineralization: Deciphering hydrothermal and metamorphic effects in the Malartic district, Quebec. Ore Geology Reviews, 2018, 95, 789-820.	2.7	43
25	STRUCTURAL ENVIRONMENT OF Nb5+ IN DRY AND FLUID-RICH (H2O, F) SILICATE GLASSES: A COMBINED XANES AND EXAFS STUDY. Canadian Mineralogist, 2006, 44, 775-794.	1.0	39
26	Behavior of gold in a magma at sulfide-sulfate transition: Revisited. American Mineralogist, 2013, 98, 1459-1464.	1.9	37
27	The evolution of pegmatite-hosted Sn-W mineralization at Nong Sua, Thailand: Evidence from fluid inclusions and stable isotopes. Geochimica Et Cosmochimica Acta, 1994, 58, 735-747.	3.9	34
28	Platinum solubility in a haplobasaltic melt at 1250Â°C and 0.2 GPa: The effect of water content and oxygen fugacity. Geochimica Et Cosmochimica Acta, 2005, 69, 1265-1273.	3.9	34
29	Evolution of the Main Zone at the Marathon Cu-PGE Sulfide Deposit, Midcontinent Rift, Canada: Spatial Relationships in a Magma Conduit Setting. Economic Geology, 2015, 110, 983-1008.	3.8	34
30	THE ROLE OF METAGABBRO RAFTS ON TANTALUM MINERALIZATION IN THE TANCO GRANITIC PEGMATITE, MANITOBA. Canadian Mineralogist, 2006, 44, 625-644.	1.0	33
31	The effect of Cl on Pt solubility in haplobasaltic melt: Implications for micronugget formation and evidence for fluid transport of PGEs. Geochimica Et Cosmochimica Acta, 2011, 75, 7792-7805.	3.9	32
32	Structural setting for Canadian Malartic style of gold mineralization in the Pontiac Subprovince, south of the Cadillac Larder Lake Deformation Zone, QuÃ©bec, Canada. Ore Geology Reviews, 2017, 84, 185-201.	2.7	30
33	Structural setting of the Young-Davidson syenite-hosted gold deposit in the Western Cadillac-Larder Lake Deformation Zone, Abitibi Greenstone Belt, Superior Province, Ontario. Precambrian Research, 2014, 248, 39-59.	2.7	27
34	Using hyperspectral imaging to vector towards mineralization at the Canadian Malartic gold deposit, QuÃ©bec, Canada. Ore Geology Reviews, 2019, 111, 102945.	2.7	25
35	The timing of prograde metamorphism in the Pontiac Subprovince, Superior craton; implications for Archean geodynamics and gold mineralization. Precambrian Research, 2019, 320, 111-136.	2.7	20
36	MINERALOGICAL AND GEOCHEMICAL STUDY OF THE TRUE BLUE AQUAMARINE SHOWING, SOUTHERN YUKON. Canadian Mineralogist, 2007, 45, 203-227.	1.0	19

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37	EMERALD MINERALIZATION ASSOCIATED WITH THE MAVIS LAKE PEGMATITE GROUP, NEAR DRYDEN, ONTARIO. Canadian Mineralogist, 2009, 47, 315-336.	1.0	18
38	Mineralogical constraints on magmatic and hydrothermal Sn-W-Ta-Nb mineralization at the Nong Sua aplite-pegmatite, Thailand. European Journal of Mineralogy, 1993, 5, 721-736.	1.3	18
39	Experimental constraints on the effect of phosphorous and boron on Nb and Ta ore formation. Ore Geology Reviews, 2018, 94, 383-395.	2.7	16
40	Reconstructing the Geochemical Signature of Sudbury Breccia, Ontario, Canada: Implications for Its Formation and Trace Metal Content. Economic Geology, 2016, 111, 1705-1729.	3.8	15
41	RARE-ELEMENT GEOCHEMISTRY AND MINERAL DEPOSITS: PREFACE. Canadian Mineralogist, 2006, 44, 561-562.	1.0	13
42	Paleoproterozoic hydrothermal reactivation in a neoarchean orogenic lode-gold deposit of the southern Abitibi subprovince: U-Pb monazite geochronological evidence from the Young-Davidson mine, Ontario. Precambrian Research, 2014, 249, 263-272.	2.7	13
43	An experimental approach to examine fluid-melt interaction and mineralization in rare-metal pegmatites. American Mineralogist, 2020, 105, 1078-1087.	1.9	13
44	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.	4.1	12
45	Analyses of Li-Rich Minerals Using Handheld LIBS Tool. Data, 2021, 6, 68.	2.3	12
46	Identifying externally derived sulfur in conduit-type Cuâ€“platinum-group element deposits: The importance of multiple sulfur isotope studies. Geology, 2018, 46, 235-238.	4.4	11
47	Hydrothermal Synthesis of Columbite-(Mn), Tantalite-(Mn), Hafnon, and Zircon At 800â€“850 Â°C and 200 MPa. Canadian Mineralogist, 2015, 53, 1073-1081.	1.0	10
48	Evolution of a Conduit System at the Marathon PGEâ€“Cu Deposit: Insights from Silicate Mineral Textures and Chemistry. Journal of Petrology, 2019, 60, 1427-1460.	2.8	10
49	Fluid evolution and its role in the genesis of the granite-related Madeleine copper deposit, Gaspe, Quebec. Economic Geology, 1989, 84, 1515-1524.	3.8	9
50	Solubility of wodginite, titanowodginite, microlite, pyrochlore, columbite-(Mn) and tantalite-(Mn) in flux-rich haplogranitic melts between 700Â° and 850â€Â°C and 200â€MPa. Lithos, 2020, 352-353, 105239.	1.4	9
51	Effects of fluid-induced oxidation on the composition of Feâ€“Ti oxides in the Eastern Gabbro, Coldwell Complex, Canada: implications for the application of Feâ€“Ti oxides to petrogenesis and mineral exploration. Mineralium Deposita, 2021, 56, 601-618.	4.1	9
52	IN SITU MEASUREMENTS OF THE H2O:CO2 RATIO IN FLUID INCLUSIONS BY INFRARED SPECTROSCOPY. Canadian Mineralogist, 2004, 42, 1275-1282.	1.0	8
53	Controls on the chemistry of minerals in late-stage veins and implications for exploration vectoring tools for mineral deposits: An example from the Marathon Cu-Pd deposit, Ontario, Canada. Journal of Geochemical Exploration, 2018, 190, 109-129.	3.2	8
54	Applications of the combined portable XRF-benchtop SEM methodology to PGE exploration. Ore Geology Reviews, 2018, 101, 32-53.	2.7	8

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55	The role of magma injection and crystal sorting in the formation of early gabbros at the Coldwell Complex, Ontario, Canada. Canadian Journal of Earth Sciences, 2019, 56, 715-737.	1.3	8
56	The application of portable XRF and benchtop SEM-EDS to Cu-Pd exploration in the Coldwell Alkaline Complex, Ontario, Canada. Geochemistry: Exploration, Environment, Analysis, 2016, 16, 193-212.	0.9	7
57	The use of lithogeochemistry in delineating hydrothermal fluid pathways and vectoring towards gold mineralization in the Malartic district, QuÃ©bec. Ore Geology Reviews, 2020, 120, 103351.	2.7	7
58	Oxide mineralogy and trace element chemistry as an index to magma evolution and Marathon-type mineralization in the Eastern Gabbro of the alkaline Coldwell Complex, Canada. Mineralium Deposita, 2021, 56, 621-642.	4.1	7
59	Igneous architecture and implications for diverse Cu-PGE mineralization styles in a conduit system: an example from the Area 41 Cu-PGE occurrence, Coldwell Complex, Canada. Mineralium Deposita, 2019, 54, 867-884.	4.1	5
60	Genesis of the low sulfide-high-grade PGE mineralization in the W Horizon, Coldwell Complex, Canada: quantitative modeling for PGE reef-style mineralization in syn-magmatic sills. Mineralium Deposita, 2021, 56, 1151-1176.	4.1	5
61	The Engineer Mine, British Columbia: An example of epithermal Au-Ag mineralization with mixed alkaline and subalkaline characteristics. Ore Geology Reviews, 2017, 83, 235-257.	2.7	4
62	Tectonic control of quartz vein orientations at the Trout Lake stockwork molybdenum deposit, southeastern British Columbia; implications for metallogeny in the Kootenay Arc. Economic Geology, 1987, 82, 1283-1293.	3.8	3
63	Some thoughts on metasomatism in pegmatites. Canadian Mineralogist, 2019, 57, 765-766.	1.0	3
64	Evaluating portable Raman spectrometers for use in exploration of pegmatite dikes, Wekusko Lake, Manitoba. Canadian Mineralogist, 2019, 57, 711-713.	1.0	3
65	The Setting and Age of the Bermuda Zn-Pb Showing, Grinnell Peninsula, Devon Island: Implications for MVT Mineralization in the Canadian Arctic. Exploration and Mining Geology, 2004, 13, 109-118.	0.5	3
66	Mineralogical and Geochemical Characteristics Of Sudbury Breccia Adjacent To Footwall Cu-Ni-PGE Sulfide Veins and Structures In the Creighton and Coleman Deposits. Canadian Mineralogist, 2017, 55, 909-943.	1.0	1
67	Relationships among the Geordie Lake Cu-Pd deposit, alkaline basalt, and syenites in the Coldwell Complex, Midcontinent Rift, Canada. Canadian Mineralogist, 2021, 59, 1571-1597.	1.0	1
68	Rare earth element partitioning between fluids and uraninite at 50â˜700 Â°C. Canadian Mineralogist, 2021, 59, 869-884.	1.0	0