

Robert L Linnen

List of Publications by Citations

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69
papers

2,420
citations

27
h-index

48
g-index

70
ext. papers

2,806
ext. citations

3.3
avg, IF

5.12
L-index

#	Paper	IF	Citations
69	Melt composition control of Zr/Hf fractionation in magmatic processes. <i>Geochimica Et Cosmochimica Acta</i> , 2002 , 66, 3293-3301	5.5	269
68	Columbite solubility in granitic melts: consequences for the enrichment and fractionation of Nb and Ta in the Earth's crust. <i>Contributions To Mineralogy and Petrology</i> , 1997 , 128, 213-227	3.5	247
67	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. <i>Economic Geology</i> , 1998 , 93, 1013-1025	4.3	175
66	Granitic Pegmatites as Sources of Strategic Metals. <i>Elements</i> , 2012 , 8, 275-280	3.8	172
65	High gold concentrations in sulphide-bearing magma under oxidizing conditions. <i>Nature Geoscience</i> , 2011 , 4, 112-115	18.3	131
64	The combined effects of fO ₂ and melt composition on SnO ₂ solubility and tin diffusivity in haplogranitic melts. <i>Geochimica Et Cosmochimica Acta</i> , 1996 , 60, 4965-4976	5.5	129
63	The effect of on the solubility, diffusion, and speciation of tin in haplogranitic melt at 850°C and 2 kbar. <i>Geochimica Et Cosmochimica Acta</i> , 1995 , 59, 1579-1588	5.5	97
62	Tungsten solubility in evolved granitic melts: An evaluation of magmatic wolframite. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 106, 84-98	5.5	67
61	Solubility of cassiterite in evolved granitic melts: effect of T, fO ₂ , and additional volatiles. <i>Lithos</i> , 2005 , 80, 387-400	2.9	66
60	Trace element geochemistry by laser ablation ICP-MS of micas associated with Ta mineralization in the Tanco pegmatite, Manitoba, Canada. <i>Contributions To Mineralogy and Petrology</i> , 2008 , 155, 791-806	3.5	61
59	Geochemistry of the Rare-Earth Element, Nb, Ta, Hf, and Zr Deposits 2014 , 543-568		50
58	REDOX AND SPECIATION OF TIN IN HYDROUS SILICATE GLASSES: A COMPARISON WITH Nb, Ta, Mo AND W. <i>Canadian Mineralogist</i> , 2006 , 44, 795-810	0.7	50
57	Depth of emplacement, fluid provenance and metallogeny in granitic terranes: a comparison of western Thailand with other tin belts. <i>Mineralium Deposita</i> , 1998 , 33, 461-476	4.8	48
56	Effects of fluorine on the solubilities of Nb, Ta, Zr and Hf minerals in highly fluxed water-saturated haplogranitic melts. <i>Ore Geology Reviews</i> , 2015 , 64, 736-746	3.2	46
55	Solubility of Au in Cl- and S-bearing hydrous silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 2396-2411	5.5	45
54	Influence of fluorine on the solubility of manganotantalite (MnTa ₂ O ₆) and manganocolumbite (MnNb ₂ O ₆) in granitic melts [An experimental study. <i>Lithos</i> , 2011 , 122, 165-174	2.9	43
53	DISTRIBUTION OF TRACE AND RARE EARTH ELEMENTS IN TITANITE FROM TUNGSTEN AND MOLYBDENUM DEPOSITS IN YUKON AND BRITISH COLUMBIA, CANADA. <i>Canadian Mineralogist</i> , 2013 , 51, 415-438	0.7	39

52	A filler-rod technique for controlling redox conditions in cold-seal pressure vessels. <i>American Mineralogist</i> , 2003 , 88, 701-707	2.9	38
51	Genesis of a magmatic metamorphic hydrothermal system; the Sn-W polymetallic deposits at Pilok, Thailand. <i>Economic Geology</i> , 1995 , 90, 1148-1166	4.3	36
50	Evolution of aqueous-carbonic fluids during contact metamorphism, wall-rock alteration, and molybdenite deposition at Trout Lake, British Columbia. <i>Economic Geology</i> , 1990 , 85, 1840-1856	4.3	36
49	The effect of water on accessory phase solubility in subaluminous and peralkaline granitic melts. <i>Lithos</i> , 2005 , 80, 267-280	2.9	34
48	Mica composition as a vector to gold mineralization: Deciphering hydrothermal and metamorphic effects in the Malartic district, Quebec. <i>Ore Geology Reviews</i> , 2018 , 95, 789-820	3.2	33
47	Solubility of manganotantalite and manganocolumbite in pegmatitic melts. <i>American Mineralogist</i> , 2010 , 95, 537-544	2.9	32
46	The evolution of pegmatite-hosted Sn-W mineralization at Nong Sua, Thailand: Evidence from fluid inclusions and stable isotopes. <i>Geochimica Et Cosmochimica Acta</i> , 1994 , 58, 735-747	5.5	32
45	Viscosity of flux-rich pegmatitic melts. <i>Contributions To Mineralogy and Petrology</i> , 2011 , 162, 51-60	3.5	31
44	Behavior of gold in a magma at sulfide-sulfate transition: Revisited. <i>American Mineralogist</i> , 2013 , 98, 1459-1464	2.9	29
43	Platinum solubility in a haplobasaltic melt at 1250°C and 0.2 GPa: The effect of water content and oxygen fugacity. <i>Geochimica Et Cosmochimica Acta</i> , 2005 , 69, 1265-1273	5.5	28
42	The effect of Cl on Pt solubility in haplobasaltic melt: Implications for micronugget formation and evidence for fluid transport of PGEs. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 7792-7805	5.5	27
41	Evolution of the Main Zone at the Marathon Cu-PGE Sulfide Deposit, Midcontinent Rift, Canada: Spatial Relationships in a Magma Conduit Setting. <i>Economic Geology</i> , 2015 , 110, 983-1008	4.3	26
40	Structural setting for Canadian Malartic style of gold mineralization in the Pontiac Subprovince, south of the Cadillac Larder Lake Deformation Zone, Québec, Canada. <i>Ore Geology Reviews</i> , 2017 , 84, 185-201	3.2	23
39	Structural setting of the Young-Davidson syenite-hosted gold deposit in the Western Cadillac-Larder Lake Deformation Zone, Abitibi Greenstone Belt, Superior Province, Ontario. <i>Precambrian Research</i> , 2014 , 248, 39-59	3.9	21
38	THE ROLE OF METAGABBRO RAFTS ON TANTALUM MINERALIZATION IN THE TANCO GRANITIC PEGMATITE, MANITOBA. <i>Canadian Mineralogist</i> , 2006 , 44, 625-644	0.7	21
37	STRUCTURAL ENVIRONMENT OF Nb ⁵⁺ IN DRY AND FLUID-RICH (H ₂ O, F) SILICATE GLASSES: A COMBINED XANES AND EXAFS STUDY. <i>Canadian Mineralogist</i> , 2006 , 44, 775-794	0.7	21
36	Mineralogical constraints on magmatic and hydrothermal Sn-W-Ta-Nb mineralization at the Nong Sua aplite-pegmatite, Thailand. <i>European Journal of Mineralogy</i> , 1993 , 5, 721-736	2.2	16
35	Using hyperspectral imaging to vector towards mineralization at the Canadian Malartic gold deposit, Québec, Canada. <i>Ore Geology Reviews</i> , 2019 , 111, 102945	3.2	15

34	Tantalum and niobium 2013 , 361-384		12
33	EMERALD MINERALIZATION ASSOCIATED WITH THE MAVIS LAKE PEGMATITE GROUP, NEAR DRYDEN, ONTARIO. <i>Canadian Mineralogist</i> , 2009 , 47, 315-336	0.7	12
32	MINERALOGICAL AND GEOCHEMICAL STUDY OF THE TRUE BLUE AQUAMARINE SHOWING, SOUTHERN YUKON. <i>Canadian Mineralogist</i> , 2007 , 45, 203-227	0.7	12
31	Reconstructing the Geochemical Signature of Sudbury Breccia, Ontario, Canada: Implications for Its Formation and Trace Metal Content. <i>Economic Geology</i> , 2016 , 111, 1705-1729	4.3	12
30	The timing of prograde metamorphism in the Pontiac Subprovince, Superior craton; implications for Archean geodynamics and gold mineralization. <i>Precambrian Research</i> , 2019 , 320, 111-136	3.9	12
29	Identifying externally derived sulfur in conduit-type Cu-platinum-group element deposits: The importance of multiple sulfur isotope studies. <i>Geology</i> , 2018 , 46, 235-238	5	9
28	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. <i>Journal of Geochemical Exploration</i> , 2018 , 190, 109-129	3.8	8
27	Evolution of a Conduit System at the Marathon PGE-U Deposit: Insights from Silicate Mineral Textures and Chemistry. <i>Journal of Petrology</i> , 2019 , 60, 1427-1460	3.9	8
26	Fluid evolution and its role in the genesis of the granite-related Madeleine copper deposit, Gaspé, Quebec. <i>Economic Geology</i> , 1989 , 84, 1515-1524	4.3	8
25	The application of portable XRF and benchtop SEM-EDS to Cu-Pd exploration in the Coldwell Alkaline Complex, Ontario, Canada. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2016 , 16, 193-212	1.8	7
24	Paleoproterozoic hydrothermal reactivation in a neoproterozoic orogenic lode-gold deposit of the southern Abitibi subprovince: U-Pb monazite geochronological evidence from the Young-Davidson mine, Ontario. <i>Precambrian Research</i> , 2014 , 249, 263-272	3.9	7
23	Expanding the size of multi-parameter metasomatic footprints in gold exploration: utilization of mafic dykes in the Canadian Malartic district, Québec, Canada. <i>Mineralium Deposita</i> , 2019 , 54, 761-786	4.8	7
22	The use of litho-geochemistry in delineating hydrothermal fluid pathways and vectoring towards gold mineralization in the Malartic district, Québec. <i>Ore Geology Reviews</i> , 2020 , 120, 103351	3.2	6
21	Experimental constraints on the effect of phosphorous and boron on Nb and Ta ore formation. <i>Ore Geology Reviews</i> , 2018 , 94, 383-395	3.2	6
20	Applications of the combined portable XRF-benchtop SEM methodology to PGE exploration. <i>Ore Geology Reviews</i> , 2018 , 101, 32-53	3.2	6
19	Hydrothermal Synthesis of Columbite-(Mn), Tantalite-(Mn), Hafnon, and Zircon At 800-850 °C and 200 MPa. <i>Canadian Mineralogist</i> , 2015 , 53, 1073-1081	0.7	6
18	IN SITU MEASUREMENTS OF THE H ₂ O:CO ₂ RATIO IN FLUID INCLUSIONS BY INFRARED SPECTROSCOPY. <i>Canadian Mineralogist</i> , 2004 , 42, 1275-1282	0.7	6
17	The role of magma injection and crystal sorting in the formation of early gabbros at the Coldwell Complex, Ontario, Canada. <i>Canadian Journal of Earth Sciences</i> , 2019 , 56, 715-737	1.5	6

16	Solubility of wodginite, titanowodginite, microlite, pyrochlore, columbite-(Mn) and tantalite-(Mn) in flux-rich haplogranitic melts between 700° and 850 °C and 200 MPa. <i>Lithos</i> , 2020 , 352-353, 105239	2.9	6
15	An experimental approach to examine fluid-melt interaction and mineralization in rare-metal pegmatites. <i>American Mineralogist</i> , 2020 , 105, 1078-1087	2.9	4
14	Analyses of Li-Rich Minerals Using Handheld LIBS Tool. <i>Data</i> , 2021 , 6, 68	2.3	4
13	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. <i>Mineralium Deposita</i> , 2019 , 54, 867-884	4.8	4
12	Evaluating portable Raman spectrometers for use in exploration of pegmatite dikes, Wekusko Lake, Manitoba. <i>Canadian Mineralogist</i> , 2019 , 57, 711-713	0.7	3
11	Effects of fluid-induced oxidation on the composition of Fe ^{III} oxides in the Eastern Gabbro, Coldwell Complex, Canada: implications for the application of Fe ^{III} oxides to petrogenesis and mineral exploration. <i>Mineralium Deposita</i> , 2021 , 56, 601-618	4.8	3
10	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. <i>Mineralium Deposita</i> , 2021 , 56, 621-642	4.8	3
9	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. <i>Mineralium Deposita</i> , 2021 , 56, 1151-1176	4.8	3
8	The Engineer Mine, British Columbia: An example of epithermal Au-Ag mineralization with mixed alkaline and subalkaline characteristics. <i>Ore Geology Reviews</i> , 2017 , 83, 235-257	3.2	2
7	RARE-ELEMENT GEOCHEMISTRY AND MINERAL DEPOSITS: PREFACE. <i>Canadian Mineralogist</i> , 2006 , 44, 561-562	0.7	2
6	Tectonic control of quartz vein orientations at the Trout Lake stockwork molybdenum deposit, southeastern British Columbia; implications for metallogeny in the Kootenay Arc. <i>Economic Geology</i> , 1987 , 82, 1283-1293	4.3	2
5	Mineralogical and Geochemical Characteristics Of Sudbury Breccia Adjacent To Footwall Cu-Ni-PGE Sulfide Veins and Structures In the Creighton and Coleman Deposits. <i>Canadian Mineralogist</i> , 2017 , 55, 909-943	0.7	0
4	Some thoughts on metasomatism in pegmatites. <i>Canadian Mineralogist</i> , 2019 , 57, 765-766	0.7	0
3	The Setting and Age of the Bermuda Zn-Pb Showing, Grinnell Peninsula, Devon Island: Implications for MVT Mineralization in the Canadian Arctic. <i>Exploration and Mining Geology</i> , 2004 , 13, 109-118		0
2	Relationships among the Geordie Lake Cu-Pd deposit, alkaline basalt, and syenites in the Coldwell Complex, Midcontinent Rift, Canada. <i>Canadian Mineralogist</i> , 2021 , 59, 1571-1597	0.7	0
1	Rare earth element partitioning between fluids and uraninite at 500-700 °C. <i>Canadian Mineralogist</i> , 2021 , 59, 869-884	0.7	