

# Robert L Linnen

## List of Publications by Year in descending order

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68  
papers

3,350  
citations

159585

30  
h-index

144013

57  
g-index

70  
all docs

70  
docs citations

70  
times ranked

1811  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of fluid-induced oxidation on the composition of Fe-Ti oxides in the Eastern Gabbro, Coldwell Complex, Canada: implications for the application of Fe-Ti oxides to petrogenesis and mineral exploration. <i>Mineralium Deposita</i> , 2021, 56, 601-618.	4.1	9
2	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.	4.1	7
3	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.	4.1	5
4	Analyses of Li-Rich Minerals Using Handheld LIBS Tool. <i>Data</i> , 2021, 6, 68.	2.3	12
5	Rare earth element partitioning between fluids and uraninite at 50~700 °C. <i>Canadian Mineralogist</i> , 2021, 59, 869-884.	1.0	0
6	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.	1.0	1
7	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.	1.4	9
8	An experimental approach to examine fluid-melt interaction and mineralization in rare-metal pegmatites. <i>American Mineralogist</i> , 2020, 105, 1078-1087.	1.9	13
9	The use of lithogeochemistry in delineating hydrothermal fluid pathways and vectoring towards gold mineralization in the Malartic district, Québec. <i>Ore Geology Reviews</i> , 2020, 120, 103351.	2.7	7
10	Evolution of a Conduit System at the Marathon PGE-Cu Deposit: Insights from Silicate Mineral Textures and Chemistry. <i>Journal of Petrology</i> , 2019, 60, 1427-1460.	2.8	10
11	Some thoughts on metasomatism in pegmatites. <i>Canadian Mineralogist</i> , 2019, 57, 765-766.	1.0	3
12	Using hyperspectral imaging to vector towards mineralization at the Canadian Malartic gold deposit, Québec, Canada. <i>Ore Geology Reviews</i> , 2019, 111, 102945.	2.7	25
13	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.	1.3	8
14	Evaluating portable Raman spectrometers for use in exploration of pegmatite dikes, Wekusko Lake, Manitoba. <i>Canadian Mineralogist</i> , 2019, 57, 711-713.	1.0	3
15	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.	4.1	12
16	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.	4.1	5
17	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.	2.7	20
18	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.	3.2	8

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19	Experimental constraints on the effect of phosphorous and boron on Nb and Ta ore formation. <i>Ore Geology Reviews</i> , 2018, 94, 383-395.	2.7	16
20	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.	2.7	43
21	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.	4.4	11
22	Applications of the combined portable XRF-benchtop SEM methodology to PGE exploration. <i>Ore Geology Reviews</i> , 2018, 101, 32-53.	2.7	8
23	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.	2.7	4
24	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.	2.7	30
25	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.	1.0	1
26	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.	3.8	15
27	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.	0.9	7
28	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.	1.0	10
29	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.	3.8	34
30	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.	2.7	65
31	Geochemistry of the Rare-Earth Element, Nb, Ta, Hf, and Zr Deposits. , 2014, , 543-568.		77
32	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.	2.7	27
33	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.	2.7	13
34	Behavior of gold in a magma at sulfide-sulfate transition: Revisited. <i>American Mineralogist</i> , 2013, 98, 1459-1464.	1.9	37
35	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.	1.0	58
36	Tungsten solubility in evolved granitic melts: An evaluation of magmatic wolframite. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 106, 84-98.	3.9	84

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37	Granitic Pegmatites as Sources of Strategic Metals. <i>Elements</i> , 2012, 8, 275-280.	0.5	270
38	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.	3.9	32
39	High gold concentrations in sulphide-bearing magma under oxidizing conditions. <i>Nature Geoscience</i> , 2011, 4, 112-115.	12.9	177
40	Influence of fluorine on the solubility of manganotantalite (MnTa <sub>2</sub> O <sub>6</sub> ) and manganocolumbite (MnNb <sub>2</sub> O <sub>6</sub> ) in granitic melts – An experimental study. <i>Lithos</i> , 2011, 122, 165-174.	1.4	59
41	Viscosity of flux-rich pegmatitic melts. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 51-60.	3.1	53
42	Solubility of manganotantalite and manganocolumbite in pegmatitic melts. <i>American Mineralogist</i> , 2010, 95, 537-544.	1.9	58
43	Solubility of Au in Cl- and S-bearing hydrous silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2396-2411.	3.9	54
44	EMERALD MINERALIZATION ASSOCIATED WITH THE MAVIS LAKE PEGMATITE GROUP, NEAR DRYDEN, ONTARIO. <i>Canadian Mineralogist</i> , 2009, 47, 315-336.	1.0	18
45	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.	3.1	83
46	MINERALOGICAL AND GEOCHEMICAL STUDY OF THE TRUE BLUE AQUAMARINE SHOWING, SOUTHERN YUKON. <i>Canadian Mineralogist</i> , 2007, 45, 203-227.	1.0	19
47	RARE-ELEMENT GEOCHEMISTRY AND MINERAL DEPOSITS: PREFACE. <i>Canadian Mineralogist</i> , 2006, 44, 561-562.	1.0	13
48	STRUCTURAL ENVIRONMENT OF Nb <sup>5+</sup> IN DRY AND FLUID-RICH (H <sub>2</sub> O, F) SILICATE GLASSES: A COMBINED XANES AND EXAFS STUDY. <i>Canadian Mineralogist</i> , 2006, 44, 775-794.	1.0	39
49	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.	1.0	71
50	THE ROLE OF METAGABBRO RAFTS ON TANTALUM MINERALIZATION IN THE TANCO GRANITIC PEGMATITE, MANITOBA. <i>Canadian Mineralogist</i> , 2006, 44, 625-644.	1.0	33
51	The effect of water on accessory phase solubility in subaluminous and peralkaline granitic melts. <i>Lithos</i> , 2005, 80, 267-280.	1.4	46
52	Solubility of cassiterite in evolved granitic melts: effect of T, fO <sub>2</sub> , and additional volatiles. <i>Lithos</i> , 2005, 80, 387-400.	1.4	90
53	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.	3.9	34
54	IN SITU MEASUREMENTS OF THE H <sub>2</sub> O:CO <sub>2</sub> RATIO IN FLUID INCLUSIONS BY INFRARED SPECTROSCOPY. <i>Canadian Mineralogist</i> , 2004, 42, 1275-1282.	1.0	8

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55	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.	0.5	3
56	A filler-rod technique for controlling redox conditions in cold-seal pressure vessels. <i>American Mineralogist</i> , 2003, 88, 701-707.	1.9	55
57	Melt composition control of Zr/Hf fractionation in magmatic processes. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3293-3301.	3.9	350
58	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.	4.1	64
59	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.	3.8	229
60	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.	3.1	324
61	The combined effects of fO <sub>2</sub> and melt composition on SnO <sub>2</sub> solubility and tin diffusivity in haplogranitic melts. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4965-4976.	3.9	163
62	Genesis of a magmatic metamorphic hydrothermal system; the Sn-W polymetallic deposits at Pilok, Thailand. <i>Economic Geology</i> , 1995, 90, 1148-1166.	3.8	48
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.	3.9	121
64	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.	3.9	34
65	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.	1.3	18
66	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.	3.8	47
67	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.	3.8	9
68	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.	3.8	3