

# Anthony E Williams-Jones

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

2,657  
citations

186265

28  
h-index

265206

42  
g-index

43  
all docs

43  
docs citations

43  
times ranked

1479  
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental study of the solubility and speciation of the Rare Earth Elements (III) in fluoride- and chloride-bearing aqueous solutions at temperatures up to 300°C. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 7087-7109.	3.9	311
2	Hydrothermal transport, deposition, and fractionation of the REE: Experimental data and thermodynamic calculations. <i>Chemical Geology</i> , 2016, 439, 13-42.	3.3	306
3	The role of hydrothermal processes in concentrating high-field strength elements in the Strange Lake peralkaline complex, northeastern Canada. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1917-1932.	3.9	188
4	The role of hydrothermal processes in the granite-hosted Zr, Y, REE deposit at Strange Lake, Quebec/Labrador: Evidence from fluid inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 2403-2418.	3.9	142
5	Hydrothermal mobilization of pegmatite-hosted REE and Zr at Strange Lake, Canada: A reaction path model. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 122, 324-352.	3.9	135
6	An experimental study of the solubility and speciation of niobium in fluoride-bearing aqueous solutions at elevated temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 158, 103-111.	3.9	123
7	Fischer-Tropsch synthesis of hydrocarbons during sub-solidus alteration of the Strange Lake peralkaline granite, Quebec/Labrador, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 83-99.	3.9	113
8	The Chemistry of Metal Transport and Deposition by Ore-Forming Hydrothermal Fluids. , 2014, , 29-57.		98
9	An experimental study of the solubility of baddeleyite (ZrO <sub>2</sub> ) in fluoride-bearing solutions at elevated temperature. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7426-7434.	3.9	85
10	The Genesis of Regolith-Hosted Heavy Rare Earth Element Deposits: Insights from the World-Class Zudong Deposit in Jiangxi Province, South China. <i>Economic Geology</i> , 2019, 114, 541-568.	3.8	84
11	Fluoride-silicate melt immiscibility and its role in REE ore formation: Evidence from the Strange Lake rare metal deposit, Quebec-Labrador, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 110-130.	3.9	80
12	A spectrophotometric study of Nd(III), Sm(III) and Er(III) complexation in sulfate-bearing solutions at elevated temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5291-5303.	3.9	79
13	A spectrophotometric study of neodymium(III) complexation in chloride solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 4311-4323.	3.9	64
14	Lithogeochemical Vectors for Hydrothermal Processes in the Strange Lake Peralkaline Granitic REE-Zr-Nb Deposit. <i>Economic Geology</i> , 2016, 111, 1241-1276.	3.8	63
15	Uranium transport in acidic brines under reducing conditions. <i>Nature Communications</i> , 2018, 9, 1469.	12.8	61
16	Magmatic evolution and controls on rare metal-enrichment of the Strange Lake A-type peralkaline granitic pluton, Quebec-Labrador. <i>Lithos</i> , 2018, 308-309, 34-52.	1.4	47
17	A spectrophotometric study of neodymium(III) complexation in sulfate solutions at elevated temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 983-992.	3.9	46
18	Fluid evolution in the Strange Lake granitic pluton, Canada: Implications for HFSE mobilisation. <i>Chemical Geology</i> , 2016, 444, 83-100.	3.3	45

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19	The solubility of xenotime-(Y) and other HREE phosphates (DyPO <sub>4</sub> , ErPO <sub>4</sub> and YbPO <sub>4</sub> ) in aqueous solutions from 100 to 250 °C and p sat. <i>Chemical Geology</i> , 2015, 401, 83-95.	3.3	43
20	The evolution of immiscible silicate and fluoride melts: Implications for REE ore-genesis. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 172, 205-224.	3.9	42
21	Analogues of epithermal gold-silver deposition in geothermal well scales. <i>Nature</i> , 1990, 346, 644-645.	27.8	41
22	The growth and concentration of uranium and titanium minerals in hydrocarbons of the Carbon Leader Reef, Witwatersrand Supergroup, South Africa. <i>Chemical Geology</i> , 2015, 393-394, 55-66.	3.3	40
23	Direct measurement of metal concentrations in fluid inclusions, a tale of hydrothermal alteration and REE ore formation from Strange Lake, Canada. <i>Chemical Geology</i> , 2018, 483, 385-396.	3.3	39
24	Fractionation of REE, U, and Th in natural ore-forming hydrothermal systems: Thermodynamic modeling. <i>Journal of Chemical Thermodynamics</i> , 2019, 128, 305-319.	2.0	37
25	Reduced orthomagmatic C-O-H-N-NaCl fluids in the Strange Lake rare-metal granitic complex, Quebec/Labrador, Canada. <i>European Journal of Mineralogy</i> , 1992, 4, 1155-1174.	1.3	37
26	Colloidal transport and flocculation are the cause of the hyperenrichment of gold in nature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	36
27	The physical and chemical evolution of fluids in rare-element granitic pegmatites associated with the Lacorne pluton, Québec, Canada. <i>Chemical Geology</i> , 2018, 493, 281-297.	3.3	33
28	A spectroscopic study of uranyl speciation in chloride-bearing solutions at temperatures up to 250 °C. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 130-145.	3.9	32
29	The amphiboles of the REE-rich A-type peralkaline Strange Lake pluton – fingerprints of magma evolution. <i>Lithos</i> , 2017, 288-289, 156-174.	1.4	30
30	The origin of the gold and uranium ores of the Black Reef Formation, Transvaal Supergroup, South Africa. <i>Ore Geology Reviews</i> , 2016, 72, 149-164.	2.7	28
31	Magmatic and Hydrothermal Controls on the Mineralogy of the Basal Zone, Nechalacho REE-Nb-Zr Deposit, Canada. <i>Economic Geology</i> , 2017, 112, 1823-1856.	3.8	24
32	Closed system fluid-mineral-mediated trace element behaviour in peralkaline rare metal pegmatites: Evidence from Strange Lake. <i>Chemical Geology</i> , 2019, 505, 86-99.	3.3	22
33	Relating sulfide mineral zonation and trace element chemistry to subsurface processes in the Reykjanes geothermal system, Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 310, 225-241.	2.1	17
34	Partial melting, fractional crystallisation, liquid immiscibility and hydrothermal mobilisation – A recipe for the formation of economic A-type granite-hosted HFSE deposits. <i>Lithos</i> , 2020, 356-357, 105300.	1.4	15
35	Tracing the evolution of a fertile REE granite by modelling amphibole-melt partitioning, the Strange Lake story. <i>Chemical Geology</i> , 2019, 514, 79-89.	3.3	13
36	Characterization of geothermal activity along the North American-Caribbean Plate boundary in Guatemala: The Joaquina geothermal field. <i>Geothermics</i> , 2015, 56, 17-34.	3.4	10

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37	Compositions of hydrothermal silicates and carbonates as indicators of physicochemical conditions in the Reykjanes geothermal system, Iceland. <i>Geothermics</i> , 2016, 64, 15-27.	3.4	10
38	Fluocerite as a precursor to rare earth element fractionation in ore-forming systems. <i>Nature Geoscience</i> , 2022, 15, 327-333.	12.9	10
39	The origin of CH <sub>4</sub> -rich fluids in reduced porphyry-skarn Cu-Mo-Au systems. <i>Ore Geology Reviews</i> , 2019, 114, 103135.	2.7	8
40	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.	2.7	7
41	Litho-geochemical approaches in geothermal system characterization: An application to the Reykjanes geothermal field, Iceland. <i>Geothermics</i> , 2016, 64, 61-80.	3.4	5
42	An experimental investigation of the solubility and speciation of scandium in fluoride-bearing aqueous liquids at temperatures up to 250°C. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 330, 67-79.	3.9	5
43	Response to the comment "Uranyl-chloride speciation and uranium transport in hydrothermal brines: Comment on Migdisov et al. (2018)" by Dargent et al.. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 235, 509-512.	3.9	3