

# William P Leeman

## List of Publications by Year in descending order

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35  
papers

4,216  
citations

172457

29  
h-index

377865

34  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2872  
citing authors

#	ARTICLE	IF	CITATIONS
1	Old/New Subduction Zone Paradigms as Seen From the Cascades. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	14
2	Petrology of "Mt. Shasta" high-magnesian andesite (HMA): A product of multi-stage crustal assembly. <i>American Mineralogist</i> , 2018, 103, 216-240.	1.9	29
3	The role of magma mixing, identification of mafic magma inputs, and structure of the underlying magmatic system at Mount St. Helens. <i>American Mineralogist</i> , 2018, 103, 1925-1944.	1.9	24
4	Boron isotope variations in Tonga-Kermadec-New Zealand arc lavas: Implications for the origin of subduction components and mantle influences. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 1126-1162.	2.5	43
5	Tracing chlorine sources of thermal and mineral springs along and across the Cascade Range using halogen concentrations and chlorine isotope compositions. <i>Earth and Planetary Science Letters</i> , 2015, 426, 225-234.	4.4	21
6	Subduction of fracture zones controls mantle melting and geochemical signature above slabs. <i>Nature Communications</i> , 2014, 5, 5095.	12.8	51
7	A Study of Cathodoluminescence and Trace Element Compositional Zoning in Natural Quartz from Volcanic Rocks: Mapping Titanium Content in Quartz. <i>Microscopy and Microanalysis</i> , 2012, 18, 1322-1341.	0.4	63
8	Subduction erosion of forearc mantle wedge implicated in the genesis of the South Sandwich Island (SSI) arc: Evidence from boron isotope systematics. <i>Earth and Planetary Science Letters</i> , 2011, 301, 275-284.	4.4	116
9	The redox state of arc mantle using Zn/Fe systematics. <i>Nature</i> , 2010, 468, 681-685.	27.8	232
10	Thermal structure beneath the Snake River Plain: Implications for the Yellowstone hotspot. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 188, 57-67.	2.1	52
11	Boron isotopic variations in NW USA rhyolites: Yellowstone, Snake River Plain, Eastern Oregon. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 188, 162-172.	2.1	26
12	Constraints on the depths and temperatures of basaltic magma generation on Earth and other terrestrial planets using new thermobarometers for mafic magmas. <i>Earth and Planetary Science Letters</i> , 2009, 279, 20-33.	4.4	587
13	Miocene silicic volcanism in southwestern Idaho: geochronology, geochemistry, and evolution of the central Snake River Plain. <i>Bulletin of Volcanology</i> , 2008, 70, 315-342.	3.0	109
14	Snake River Plain " Yellowstone silicic volcanism: implications for magma genesis and magma fluxes. <i>Geological Society Special Publication</i> , 2008, 304, 235-259.	1.3	47
15	High-magnesian andesite from Mount Shasta: A product of magma mixing and contamination, not a primitive mantle melt. <i>Geology</i> , 2007, 35, 351.	4.4	395
16	Along-strike trace element and isotopic variation in Aleutian Island arc basalt: Subduction melts sediments and dehydrates serpentine. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	100
17	Boron and oxygen isotope evidence for recycling of subducted components over the past 2.5% Cyr. <i>Nature</i> , 2007, 447, 702-705.	27.8	60
18	Lithium isotopic composition of marine sediments. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	65

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19	Petrologic constraints on the thermal structure of the Cascades arc. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 140, 67-105.	2.1	123
20	Similar V/Sc Systematics in MORB and Arc Basalts: Implications for the Oxygen Fugacities of their Mantle Source Regions. <i>Journal of Petrology</i> , 2005, 46, 2313-2336.	2.8	364
21	Boron and lithium isotopic variations in a hot subduction zone—the southern Washington Cascades. <i>Chemical Geology</i> , 2004, 212, 101-124.	3.3	168
22	Fractionation of trace elements by subduction-zone metamorphism — effect of convergent-margin thermal evolution. <i>Earth and Planetary Science Letters</i> , 1999, 171, 63-81.	4.4	260
23	Precise boron isotopic analysis of complex silicate (rock) samples using alkali carbonate fusion and ion-exchange separation. <i>Chemical Geology</i> , 1997, 142, 129-137.	3.3	126
24	The B isotopic composition of arc lavas from Martinique, Lesser Antilles. <i>Earth and Planetary Science Letters</i> , 1997, 146, 303-314.	4.4	55
25	The boron systematics of intraplate lavas: Implications for crust and mantle evolution. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 415-422.	3.9	101
26	Partial melting of melt metasomatized subcontinental mantle and the magma source potential of the lower lithosphere. <i>Journal of Geophysical Research</i> , 1995, 100, 10255-10269.	3.3	96
27	Boron geochemistry of the Central American Volcanic Arc: Constraints on the genesis of subduction-related magmas. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 149-168.	3.9	167
28	The origin of Mount St. Helens andesites. <i>Journal of Volcanology and Geothermal Research</i> , 1993, 55, 271-303.	2.1	75
29	Boron depletion during progressive metamorphism: Implications for subduction processes. <i>Earth and Planetary Science Letters</i> , 1992, 111, 331-349.	4.4	180
30	Mineralogy and geothermometry of high-temperature rhyolites from the central and western Snake River Plain. <i>Bulletin of Volcanology</i> , 1992, 54, 220-237.	3.0	51
31	Compositional diversity of Late Cenozoic basalts in a transect across the southern Washington Cascades: Implications for subduction zone magmatism. <i>Journal of Geophysical Research</i> , 1990, 95, 19561-19582.	3.3	182
32	Boron Contents in Selected International Geochemical Reference Samples. <i>Geostandards and Geoanalytical Research</i> , 1988, 12, 61-62.	3.1	23
33	Petrogenesis of Mount St. Helens dacitic magmas. <i>Journal of Geophysical Research</i> , 1987, 92, 10313-10334.	3.3	131
34	Origin of hybrid ferrolatite lavas from Magic Reservoir eruptive center, Snake River Plain, Idaho. <i>Contributions To Mineralogy and Petrology</i> , 1987, 96, 163-177.	3.1	38
35	Boron and Other Fluid-mobile Elements in Volcanic Arc Lavas: Implications for Subduction Processes. <i>Geophysical Monograph Series</i> , 0, , 269-276.	0.1	42