

# Calvin F Miller

## List of Publications by Year in descending order

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55  
papers

6,398  
citations

159585

30  
h-index

161849

54  
g-index

56  
all docs

56  
docs citations

56  
times ranked

3398  
citing authors

#	ARTICLE	IF	CITATIONS
1	Partial melting of amphibolite/eclogite and the origin of Archean trondhjemites and tonalites. <i>Precambrian Research</i> , 1991, 51, 1-25.	2.7	1,131
2	Hot and cold granites? Implications of zircon saturation temperatures and preservation of inheritance. <i>Geology</i> , 2003, 31, 529.	4.4	1,063
3	Zircon growth and recycling during the assembly of large, composite arc plutons. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 167, 282-299.	2.1	535
4	Are Strongly Peraluminous Magmas Derived from Pelitic Sedimentary Sources?. <i>Journal of Geology</i> , 1985, 93, 673-689.	1.4	372
5	Trace element composition of igneous zircon: a thermal and compositional record of the accumulation and evolution of a large silicic batholith, Spirit Mountain, Nevada. <i>Contributions To Mineralogy and Petrology</i> , 2010, 160, 511-531.	3.1	280
6	Depletion of light rare-earth elements in felsic magmas. <i>Geology</i> , 1982, 10, 129.	4.4	262
7	Monazite paragenesis and U-Pb systematics in rocks of the eastern Mojave Desert, California, U.S.A.: implications for thermochronometry. <i>Chemical Geology</i> , 1993, 110, 147-167.	3.3	179
8	Zircon reveals protracted magma storage and recycling beneath Mount St. Helens. <i>Geology</i> , 2010, 38, 1011-1014.	4.4	177
9	Growth of plutons by incremental emplacement of sheets in crystal-rich host: Evidence from Miocene intrusions of the Colorado River region, Nevada, USA. <i>Tectonophysics</i> , 2011, 500, 65-77.	2.2	173
10	Geochemistry of the Sweetwater Wash Pluton, California: Implications for anomalous trace element behavior during differentiation of felsic magmas. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 109-124.	3.9	170
11	Perspectives on the source, segregation and transport of granitoid magmas. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 1988, 79, 135-156.	0.3	160
12	The Role of Manganese in the Paragenesis of Magmatic Garnet: An Example from the Old Woman-Piute Range, California. <i>Journal of Geology</i> , 1981, 89, 233-246.	1.4	153
13	Accessory mineral behavior during differentiation of a granite suite: monazite, xenotime and zircon in the Sweetwater Wash pluton, southeastern California, U.S.A.. <i>Chemical Geology</i> , 1993, 110, 49-67.	3.3	127
14	Experimental evidence bearing on the stability of monazite during crustal anatexis. <i>Geophysical Research Letters</i> , 1987, 14, 307-310.	4.0	124
15	Extreme fractionation in felsic magma chambers: a product of liquid-state diffusion or fractional crystallization?. <i>Earth and Planetary Science Letters</i> , 1984, 68, 151-158.	4.4	115
16	Contrasting stratified plutons exposed in tilt blocks, Eldorado Mountains, Colorado River Rift, NV, USA. <i>Lithos</i> , 2002, 61, 209-224.	1.4	112
17	Construction of a pluton: Evidence from an exposed cross section of the Searchlight pluton, Eldorado Mountains, Nevada. <i>Bulletin of the Geological Society of America</i> , 2001, 113, 1213-1228.	3.3	105
18	Iceland is not a magmatic analog for the Hadean: Evidence from the zircon record. <i>Earth and Planetary Science Letters</i> , 2014, 405, 85-97.	4.4	101

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19	Sphene and zircon in the Highland Range volcanic sequence (Miocene, southern Nevada, USA): elemental partitioning, phase relations, and influence on evolution of silicic magma. <i>Mineralogy and Petrology</i> , 2011, 102, 29-50.	1.1	76
20	The $^{40}\text{Ar}/^{39}\text{Ar}$ thermochronology of the eastern Mojave Desert, California, and adjacent western Arizona with implications for the evolution of metamorphic core complexes. <i>Journal of Geophysical Research</i> , 1990, 95, 20005-20024.	3.3	70
21	The Evolution of the Peach Spring Giant Magma Body: Evidence from Accessory Mineral Textures and Compositions, Bulk Pumice and Glass Geochemistry, and Rhyolite-MELTS Modeling. <i>Journal of Petrology</i> , 2013, 54, 1109-1148.	2.8	70
22	Record of magma chamber processes preserved in accessory mineral assemblages, Aztec Wash Pluton, Nevada. <i>American Mineralogist</i> , 1999, 84, 1346-1353.	1.9	59
23	Zircon from historic eruptions in Iceland: reconstructing storage and evolution of silicic magmas. <i>Mineralogy and Petrology</i> , 2011, 102, 135-161.	1.1	57
24	Age, Inheritance, and Uplift History of the Old Woman-Piute Batholith, California and Implications for K-Feldspar Age Spectra. <i>Journal of Geology</i> , 1989, 97, 232-243.	1.4	44
25	Tertiary extension in the Old Woman Mountains Area, California: Evidence from apatite fission track analysis. <i>Tectonics</i> , 1991, 10, 875-886.	2.8	43
26	Combining Nd isotopes in monazite and Hf isotopes in zircon to understand complex open-system processes in granitic magmas. <i>Geology</i> , 2017, 45, 267-270.	4.4	40
27	Anatexis, hybridization and the modification of ancient crust: Mesozoic plutonism in the Old Woman Mountains area, California. <i>Lithos</i> , 1994, 32, 111-133.	1.4	38
28	Silver Creek caldera—The tectonically dismembered source of the Peach Spring Tuff. <i>Geology</i> , 2013, 41, 3-6.	4.4	37
29	Phase-equilibrium geobarometers for silicic rocks based on rhyolite-MELTS—Part 3: Application to the Peach Spring Tuff (Arizona—California—Nevada, USA). <i>Contributions To Mineralogy and Petrology</i> , 2015, 169, 1.	3.1	35
30	Chapter 6: Petrogenesis of the composite peraluminous-metaluminous Old Woman-Piute Range batholith, southeastern California; isotopic constraints. <i>Memoir of the Geological Society of America</i> , 1990, , 99-110.	0.5	33
31	Monzonitic plutons, California, and a model for generation of alkali-rich, near silica-saturated magmas. <i>Contributions To Mineralogy and Petrology</i> , 1978, 67, 349-355.	3.1	30
32	$^{40}\text{Ar}/^{39}\text{Ar}$ thermochronology and thermobarometry of metamorphism, plutonism, and tectonic denudation in the Old Woman Mountains area, California. <i>Bulletin of the Geological Society of America</i> , 1992, 104, 176-191.	3.3	30
33	Petrogenesis and tectonic significance of the calc-alkaline, bimodal Aztec Wash pluton, Eldorado Mountains, Colorado River extensional corridor. <i>Journal of Geophysical Research</i> , 1995, 100, 10453-10476.	3.3	30
34	Phanerozoic plutonism in the Cordilleran Interior, U.S.A.. <i>Special Paper of the Geological Society of America</i> , 1990, , 213-231.	0.5	29
35	Architecture of a Super-sized Magma Chamber and Remobilization of its Basal Cumulate (Peach Spring) <i>Tj ETQq1 1.0,784314,rgBT /O</i>	2.8	29
36	Mapping the Piute Mountains, California, with thermal infrared multispectral scanner (TIMS) images. <i>Journal of Geophysical Research</i> , 1994, 99, 15605.	3.3	28

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37	Source region of a granite batholith: evidence from lower crustal xenoliths and inherited accessory minerals. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 1992, 83, 49-62.	0.3	27
38	Granites, dynamic magma chamber processes and pluton construction: the Aztec Wash pluton, Eldorado Mountains, Nevada, USA. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 2004, 95, 277-295.	0.3	27
39	Early alkalic plutonism in the calc-alkalic batholithic belt of California. <i>Geology</i> , 1977, 5, 685.	4.4	21
40	Mid-Tertiary structural evolution of the Old Woman Mountains Area: Implications for crustal extension across southeastern California. <i>Journal of Geophysical Research</i> , 1990, 95, 581-597.	3.3	21
41	Petrogenesis of the highly potassic 1.42 Ga Barrel Spring pluton, southeastern California, with implications for mid-Proterozoic magma genesis in the southwestern USA. <i>Contributions To Mineralogy and Petrology</i> , 1994, 118, 182-197.	3.1	21
42	Western Old Woman Mountains shear zone: Evidence for late ductile extension in the Cordilleran orogenic belt. <i>Geology</i> , 1991, 19, 893.	4.4	20
43	Zircon evidence for a ~200 k.y. supereruption-related thermal flare-up in the Miocene southern Black Mountains, western Arizona, USA. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	18
44	Petrogenesis of Silicic Magmas in Iceland through Space and Time: The Isotopic Record Preserved in Zircon and Whole Rocks. <i>Journal of Geology</i> , 2020, 128, 1-28.	1.4	15
45	Tertiary extension-related volcanism, Old Woman Mountains area eastern Mojave Desert, California. <i>Journal of Geophysical Research</i> , 1991, 96, 13629-13643.	3.3	14
46	Eruptible magma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13941-13943.	7.1	11
47	Magmatic-tectonic control on the generation of silicic magmas in Iceland: Constraints from Hafnarfjall-Skarðsheiði volcano. <i>Lithos</i> , 2018, 318-319, 326-339.	1.4	11
48	Plutonism at the interior margin of the Jurassic magmatic arc, Mojave Desert, California. <i>Special Paper of the Geological Society of America</i> , 1995, , 351-374.	0.5	10
49	Hafnium, oxygen, neodymium, strontium, and lead isotopic constraints on magmatic evolution of the supereruptive southern Black Mountains volcanic center, Arizona, U.S.A.: A combined LASS zircon-whole-rock study. <i>American Mineralogist</i> , 2016, 101, 311-327.	1.9	10
50	Deciphering Cryptic Multi-Stage Crystal-Melt Separation during Construction of the Tonglu Volcanic-Plutonic Complex, SE China. <i>Journal of Petrology</i> , 2022, 63, .	2.8	9
51	Source region of a granite batholith: evidence from lower crustal xenoliths and inherited accessory minerals. <i>Special Paper of the Geological Society of America</i> , 1992, , 49-62.	0.5	8
52	Timing of Magmatism, Basin Formation, and Tilting At the West Edge of the Colorado River Extensional Corridor: Results From Single-Crystal <sup>40</sup> Ar/ <sup>39</sup> Ar Geochronology of Tertiary Rocks in the Old Woman Mountains Area, Southeastern California. <i>Journal of Geology</i> , 1998, 106, 195-210.	1.4	8
53	Chemistry and phase petrology of amphiboles and orthoamphibole cordierite rocks, Old Woman Mountains, SE California, USA. <i>Mineralogical Magazine</i> , 1990, 54, 393-406.	1.4	4
54	The Spirit Mountain batholith and Secret Pass Canyon volcanic center: A cross-sectional view of the magmatic architecture of the uppermost crust of an extensional terrain, Colorado River, Nevada-Arizona. , 2008, , 187-214.		3

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55	Granites and rhyolites: Messages from Hong Kong, courtesy of zircon. American Mineralogist, 2017, 102, 2154-2156.	1.9	0