

# Calvin F Miller

## List of Publications by Year in descending order

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55  
papers

6,398  
citations

159585

30  
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161849

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56  
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56  
docs citations

56  
times ranked

3398  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Architecture of a Super-sized Magma Chamber and Remobilization of its Basal Cumulate (Peach Spring) Tj ETQq1 1,0784314,rgBT /O	2.8	29
4	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
5	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
6	Granites and rhyolites: Messages from Hong Kong, courtesy of zircon. <i>American Mineralogist</i> , 2017, 102, 2154-2156.	1.9	0
7	Eruptible magma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 13941-13943.	7.1	11
8	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
9	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
10	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
11	Zircon evidence for a ~200k.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
12	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
13	Silver Creek caldera-The tectonically dismembered source of the Peach Spring Tuff. <i>Geology</i> , 2013, 41, 3-6.	4.4	37
14	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
15	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
16	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
17	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
18	Zircon reveals protracted magma storage and recycling beneath Mount St. Helens. <i>Geology</i> , 2010, 38, 1011-1014.	4.4	177

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19	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
20	Zircon growth and recycling during the assembly of large, composite arc plutons. Journal of Volcanology and Geothermal Research, 2007, 167, 282-299.	2.1	535
21	Granites, dynamic magma chamber processes and pluton construction: the Aztec Wash pluton, Eldorado Mountains, Nevada, USA. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 2004, 95, 277-295.	0.3	27
22	Hot and cold granites? Implications of zircon saturation temperatures and preservation of inheritance. Geology, 2003, 31, 529.	4.4	1,063
23	Contrasting stratified plutons exposed in tilt blocks, Eldorado Mountains, Colorado River Rift, NV, USA. Lithos, 2002, 61, 209-224.	1.4	112
24	Construction of a pluton: Evidence from an exposed cross section of the Searchlight pluton, Eldorado Mountains, Nevada. Bulletin of the Geological Society of America, 2001, 113, 1213-1228.	3.3	105
25	Record of magma chamber processes preserved in accessory mineral assemblages, Aztec Wash Pluton, Nevada. American Mineralogist, 1999, 84, 1346-1353.	1.9	59
26	Timing of Magmatism, Basin Formation, and Tilting At the West Edge of the Colorado River Extensional Corridor: Results From Single <sup>40</sup> Ar/ <sup>39</sup> Ar Geochronology of Tertiary Rocks in the Old Woman Mountains Area, Southeastern California. Journal of Geology, 1998, 106, 195-210.	1.4	8
27	Plutonism at the interior margin of the Jurassic magmatic arc, Mojave Desert, California. Special Paper of the Geological Society of America, 1995, , 351-374.	0.5	10
28	Petrogenesis and tectonic significance of the calc-alkaline, bimodal Aztec Wash pluton, Eldorado Mountains, Colorado River extensional corridor. Journal of Geophysical Research, 1995, 100, 10453-10476.	3.3	30
29	Petrogenesis of the highly potassic 1.42 Ga Barrel Spring pluton, southeastern California, with implications for mid-Proterozoic magma genesis in the southwestern USA. Contributions To Mineralogy and Petrology, 1994, 118, 182-197.	3.1	21
30	Anatexis, hybridization and the modification of ancient crust: Mesozoic plutonism in the Old Woman Mountains area, California. Lithos, 1994, 32, 111-133.	1.4	38
31	Mapping the Piute Mountains, California, with thermal infrared multispectral scanner (TIMS) images. Journal of Geophysical Research, 1994, 99, 15605.	3.3	28
32	Accessory mineral behavior during differentiation of a granite suite: monazite, xenotime and zircon in the Sweetwater Wash pluton, southeastern California, U.S.A.. Chemical Geology, 1993, 110, 49-67.	3.3	127
33	Monazite paragenesis and U-Pb systematics in rocks of the eastern Mojave Desert, California, U.S.A.: implications for thermochronometry. Chemical Geology, 1993, 110, 147-167.	3.3	179
34	<sup>40</sup> Ar/ <sup>39</sup> Ar thermochronology and thermobarometry of metamorphism, plutonism, and tectonic denudation in the Old Woman Mountains area, California. Bulletin of the Geological Society of America, 1992, 104, 176-191.	3.3	30
35	Source region of a granite batholith: evidence from lower crustal xenoliths and inherited accessory minerals. Special Paper of the Geological Society of America, 1992, , 49-62.	0.5	8
36	Source region of a granite batholith: evidence from lower crustal xenoliths and inherited accessory minerals. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 1992, 83, 49-62.	0.3	27

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37	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
38	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
39	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
40	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
41	Phanerozoic plutonism in the Cordilleran Interior, U.S.A.. Special Paper of the Geological Society of America, 1990, , 213-231.	0.5	29
42	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
43	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
44	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
45	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
46	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
47	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
48	Experimental evidence bearing on the stability of monazite during crustal anatexis. <i>Geophysical Research Letters</i> , 1987, 14, 307-310.	4.0	124
49	Are Strongly Peraluminous Magmas Derived from Pelitic Sedimentary Sources?. <i>Journal of Geology</i> , 1985, 93, 673-689.	1.4	372
50	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
51	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
52	Depletion of light rare-earth elements in felsic magmas. <i>Geology</i> , 1982, 10, 129.	4.4	262
53	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
54	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

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55	Early alkalic plutonism in the calc-alkalic batholithic belt of California. <i>Geology</i> , 1977, 5, 685.	4.4	21