Michael O. McWilliams

List of Publications by Year
in descending order

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98 papers	9,134 citations	36271 51 h-index	39638 94 g-index
98 all docs	98 docs citations	98 times ranked	5237 citing authors

#	Article	IF	Citations
1	Tectonics of the Qinling (Central China): tectonostratigraphy, geochronology, and deformation history. Tectonophysics, 2003, 366, 1-53.	0.9	768
2	Volcanic and structural evolution of Taupo Volcanic Zone, New Zealand: a review. Journal of Volcanology and Geothermal Research, 1995, 68, 1-28.	0.8	641
3	Exhumation of ultrahigh-pressure continental crust in east central China: Late Triassic-Early Jurassic tectonic unroofing. Journal of Geophysical Research, 2000, 105, 13339-13364.	3.3	608
4	Normal faulting in central Tibet since at least 13.5â€‰Myr ago. Nature, 2001, 412, 628-632.	13.7	371
5	Coeval 40Ar/39Ar Ages of 65.0 Million Years Ago from Chicxulub Crater Melt Rock and Cretaceous-Tertiary Boundary Tektites. Science, 1992, 257, 954-958.	6.0	343
6	Assembly of the Pamirs: Age and origin of magmatic belts from the southern Tien Shan to the southern Pamirs and their relation to Tibet. Tectonics, 2004, 23, n/a-n/a.	1.3	297
7	Hot and Dry Deep Crustal Xenoliths from Tibet. Science, 2000, 287, 2463-2466.	6.0	278
8	Chronology and dynamics of a large silicic magmatic system: Central Taupo Volcanic Zone, New Zealand. Geology, 1995, 23, 13.	2.0	276
9	Mass-production of Cambroâ€“Ordovician quartz-rich sandstone as a consequence of chemical weathering of Pan-African terranes: Environmental implications. Earth and Planetary Science Letters, 2005, 240, 818-826.	1.8	193
10	Origin of northern Gondwana Cambrian sandstone revealed by detrital zircon SHRIMP dating. Geology, 2003, 31, 227.	2.0	187
11	Detrital zircon provenance analysis of the Great Valley Group, California: Evolution of an arc-forearc system. Bulletin of the Geological Society of America, 2002, 114, 1564-1580.	1.6	183
12	40Ar/39Ar geochronology and exhumation of high-pressure to ultrahigh-pressure metamorphic rocks in east-central China. Geology, 1994, 22, 601.	2.0	181
13	Intensity of the Earth's magnetic field: Evidence for a Mesozoic dipole low. Earth and Planetary Science Letters, 1990, 97, 129-139.	1.8	177
14	Thermochronologic constraints on deformation and cooling history of high- and ultrahigh-pressure rocks in the Qinling-Dabie orogen, eastern China. Tectonics, 1999, 18, 621-638.	1.3	175
15	40Ar/39Ar Dating of the Brunhes-Matuyama Geomagnetic Field Reversal. Science, 1992, 256, 356-357.	6.0	165
16	Near-Ultrahigh Pressure Processing of Continental Crust: Miocene Crustal Xenoliths from the Pamir. Journal of Petrology, 2005, 46, 1661-1687.	1.1	162
17	Provenance of north Gondwana Cambrianâ€“Ordovician sandstone: Uâ€“Pb SHRIMP dating of detrital zircons from Israel and Jordan. Geological Magazine, 2006, 143, 367-391.	0.9	159
18	Thermo-tectonic history of the Issyk-Kul basement (Kyrgyz Northern Tien Shan, Central Asia). Gondwana Research, 2013, 23, 998-1020.	3.0	140

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19	Cenozoic tectonic evolution of the White Mountains, California and Nevada. Bulletin of the Geological Society of America, 2003, 115, 788-816.	1.6	130
20	Building the Pamirs: The view from the underside. Geology, 2003, 31, 849.	2.0	123
21	Lithofacies control in detrital zircon provenance studies: Insights from the Cretaceous Methow basin, southern Canadian Cordillera. Bulletin of the Geological Society of America, 2003, 115, 899-915.	1.6	123
22	Dome formation and extension in the Tethyan Himalaya, Leo Pargil, northwest India. Bulletin of the Geological Society of America, 2006, 118, 635-650.	1.6	117
23	When did the ultrahigh-pressure rocks reach the surface? A 207Pb/206Pb zircon, 40Ar/39Ar white mica, Si-in-white mica, single-grain provenance study of Dabie Shan synorogenic foreland sediments. Chemical Geology, 2003, 197, 87-110.	1.4	111
24	Precambrian geodynamics â€" a palaeomagnetic view. Tectonophysics, 1977, 40, 137-159.	0.9	109
25	40 Ar/ 39 Ar geochronology of Cu-Au and Au-Ag mineralization in the Potrerillos District, Chile. Economic Geology, 1997, 92, 784-806.	1.8	106
26	Oxygen isotopic composition and U-Pb discordance in zircon. Geochimica Et Cosmochimica Acta, 2005, 69, 4895-4905.	1.6	93
27	New ages for the climactic eruptions at Yellowstone: Single-crystal 40Ar/39Ar dating identifies contamination. Geology, 1998, 26, 343.	2.0	87
28	Detrital zircon Uâ€"Pb geochronology of Cryogenian diamictites and Lower Paleozoic sandstone in Ethiopia (Tigrai): Age constraints on Neoproterozoic glaciation and crustal evolution of the southern Arabianâ€"Nubian Shield. Precambrian Research, 2007, 154, 88-106.	1.2	85
29	An exceptionally widespread ignimbrite with implications for pyroclastic flow emplacement. Nature, 1995, 378, 605-607.	13.7	84
30	The North American-Caribbean Plate boundary in Mexico-Guatemala-Honduras. Geological Society Special Publication, 2009, 328, 219-293.	0.8	78
31	Grenville paleomagnetism and tectonics. Canadian Journal of Earth Sciences, 1978, 15, 687-695.	0.6	77
32	Mesozoic paleomagnetism and northward translation of the Baja California Peninsula. Bulletin of the Geological Society of America, 1985, 96, 1077.	1.6	77
33	From tectonically to erosionally controlled development of the Himalayan orogen. Geology, 2005, 33, 689.	2.0	77
34	First seamount age evidence for significantly slower African plate motion since 19 to 30 Ma. Earth and Planetary Science Letters, 1999, 171, 575-589.	1.8	69
35	⁴⁰Ar/³⁹Ar Constraints on the tectonic history and architecture of the ultrahighâ€pressure Sulu orogen. Journal of Metamorphic Geology, 2009, 27, 827-844.	1.6	69
36	Formation, subduction, and exhumation of Penninic oceanic crust in the Eastern Alps: time constraints from 40Ar/39Ar geochronology. Tectonophysics, 2004, 394, 155-170.	0.9	68

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37	Exotic terranes of western California. Nature, 1982, 297, 215-217.	13.7	67
38	Franciscan Complex Calera limestones: accreted remnants of Farallon Plate oceanic plateaus. Nature, 1985, 317, 345-347.	13.7	65
39	Timescales of orogeny: Jurassic construction of the Klamath Mountains. Tectonics, 1995, 14, 677-703.	1.3	64
40	⁴⁰Ar/³⁹Ar ages of silicic volcanic rocks in the Taurangaâ€Kaimai area, New Zealand: Dating the transition between volcanism in the Coromandel Arc and the Taupo Volcanic Zone. New Zealand Journal of Geology, and Geophysics, 2005, 48, 459-469.	1.0	64
41	Mesozoic paleomagnetic results of the Tarim Craton: Tertiary relative motion between China and Siberia?. Geophysical Research Letters, 1988, 15, 217-220.	1.5	62
42	Multiple Centers of Mineralization in the Indio Muerto District, El Salvador, Chile. Economic Geology, 2001, 96, 325-350.	1.8	61
43	Dating recent Hawaiian lava flows using paleomagnetic secular variation. Bulletin of the Geological Society of America, 1986, 97, 829.	1.6	60
44	Time-space mapping of Easter Chain volcanism. Earth and Planetary Science Letters, 1995, 136, 197-212.	1.8	59
45	Tephrochronologic Constraints on Temporal Distribution of Large Landslides in Northwest Argentina. Journal of Geology, 2000, 108, 35-52.	0.7	59
46	Palaeomagnetism and magnetic anisotropy of late Neoproterozoic strata, South Australia: Implications for the palaeolatitude of late Cryogenian glaciation, cap carbonate and the Ediacaran System. Precambrian Research, 2009, 174, 35-52.	1.2	59
47	Late Permian paleomagnetic pole from dikes of the Tarim craton, China. Geology, 1988, 16, 275.	2.0	58
48	Cooling history of the northern Ford Ranges, Marie Byrd Land, West Antarctica. Tectonics, 1994, 13, 837-857.	1.3	58
49	40Ar39Ar geochronology of rhyolites erupted following collapse of the Yellowstone caldera, Yellowstone Plateau volcanic field: implications for crustal contamination. Earth and Planetary Science Letters, 1996, 142, 91-107.	1.8	58
50	40Ar/39Ar dating of Quaternary feldspar: Examples from the Taupo Volcanic Zone, New Zealand. Geology, 1992, 20, 531.	2.0	55
51	40Ar39Ar dating of combustion metamorphism (â€œMottled Zoneâ€, Israel). Chemical Geology, 1995, 122, 171-184.	1.4	52
52	Lower Permian paleomagnetism of the Tarim block, northwestern China. Earth and Planetary Science Letters, 1989, 92, 275-291.	1.8	51
53	Elements of the Archean thermal history and apparent polar wander of the eastern Kaapvaal Craton, Swaziland, from single grain dating and paleomagnetism. Earth and Planetary Science Letters, 1989, 93, 23-34.	1.8	51
54	Testing the accuracy of the geomagnetic polarity time-scale (GPTS) at 2â€“5 Ma, utilizing40Ar/39Ar incremental heating data on whole-rock basalts. Earth and Planetary Science Letters, 1993, 118, 135-144.	1.8	50

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55	Palaeomagnetism and chronology of the central Taupo Volcanic Zone, New Zealand. Geophysical Journal International, 1996, 124, 919-934.	1.0	50
56	Timing of Cenozoic volcanism and Basin and Range extension in northwestern Nevada: New constraints from the northern Pine Forest Range. Bulletin of the Geological Society of America, 2006, 118, 126-139.	1.6	48
57	Precambrian Paleomagnetism: Magnetizations Reset by the Grenville Orogeny. Science, 1975, 190, 269-272.	6.0	46
58	500 m.y. of thermal history elucidated by multi-method detrital thermochronology of North Gondwana Cambrian sandstone (Eilat area, Israel). Bulletin of the Geological Society of America, 2009, 121, 1204-1216.	1.6	45
59	Polyphase subduction and exhumation of the Sulu high-pressureâ€“ultrahigh-pressure metamorphic terrane. , 2006, , .		44
60	Southern Hemisphere Origin of the Cretaceous Laytonville Limestone of California. Science, 1986, 231, 1425-1428.	6.0	43
61	M-sequence reversals recorded in DSDP sediment cores from the western Mid-Pacific Mountains and Magellan Rise. Bulletin of the Geological Society of America, 1989, 101, 1306-1316.	1.6	43
62	Exhumation of late Paleozoic blueschists in Queensland, Australia, by extensional faulting. Geology, 1992, 20, 231.	2.0	41
63	Oligocene-Miocene middle crustal flow in southern Tibet: geochronology of Mabja Dome. Geological Society Special Publication, 2006, 268, 445-469.	0.8	39
64	High-resolution record of geomagnetic secular variation from Late Pleistocene Lake Lisan sediments (paleo Dead Sea). Earth and Planetary Science Letters, 1998, 161, 145-160.	1.8	38
65	An Archean Geomagnetic Reversal in the Kaap Valley Pluton, South Africa. Science, 1996, 273, 943-946.	6.0	37
66	Tertiary plutons monitor climate change in East Greenland. Geology, 1994, 22, 775.	2.0	36
67	Reconsideration of the age of blueschist facies metamorphism on the Seward Peninsula, Alaska, based on phengite40Ar/39Ar results. Journal of Metamorphic Geology, 1995, 13, 125-139.	1.6	36
68	Multi-method chronometry of the Teletskoye graben and its basement, Siberian Altai Mountains: new insights on its thermo-tectonic evolution. Geological Society Special Publication, 2009, 324, 237-259.	0.8	35
69	No relative rotation detected between Corsica and Sardinia. Earth and Planetary Science Letters, 1990, 98, 313-318.	1.8	32
70	Genesis and evolution of a Permianâ€Jurassic magmatic arc/accretionary wedge, and reevaluation of terranes in the central Klamath Mountains. Tectonics, 1993, 12, 387-409.	1.3	32
71	Tectonic Implication of A-type Granites across the Yangsan Fault, Gigye and Gyeongju Areas, Southeast Korean Peninsula. International Geology Review, 2007, 49, 1094-1102.	1.1	32
72	Tectonic and magmatic evolution of the northwestern Basin and Range and its transition to unextended volcanic plateaus: Black Rock Range, Nevada. Bulletin of the Geological Society of America, 2008, 120, 300-311.	1.6	31

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73	Paleomagnetic correlation of Newark Supergroup volcanics. Geology, 1989, 17, 1007.	2.0	26
74	Drillingâ€induced isothermal remanent magnetization. Geophysics, 1990, 55, 111-115.	1.4	25
75	Thermochronology of the Talkeetna intraoceanic arc of Alaska: Ar/Ar, Uâ€Th/He, Smâ€Nd, and Luâ€Hf dating. Tectonics, 2011, 30, .	1.3	25
76	Sinian paleomagnetic results from the Tarim block, western China. Precambrian Research, 1991, 49, 61-71.	1.2	24
77	Thermochronometry and palaeomagnetism of the Archaean Nelshoogte Pluton, South Africa. Geophysical Journal International, 1998, 135, 129-145.	1.0	23
78	Global Correlation of the 223 ka Pringle Falls Event. International Geology Review, 2001, 43, 191-195.	1.1	23
79	40Ar/39Ar thermochronology of epidote blueschists from the North D'Aguilar block, Queensland, Australia: Timing and kinematics of subduction complex unroofing. Bulletin of the Geological Society of America, 1995, 107, 520-535.	1.6	22
80	Rapid exhumation and mountain building in the Western Alps: Petrology and ⁴⁰Ar/³⁹Ar geochronology of detritus from Tertiary basins of southeastern France. Tectonics, 2008, 27, .	1.3	21
81	Paleomagnetic results from Late Paleozoic dikes from the northwestern Junggar Block, northwestern China. Earth and Planetary Science Letters, 1989, 94, 123-130.	1.8	20
82	Geometric model of conjugate faulting in the Gyeongsang Basin, southeast Korea. Tectonics, 2008, 27, .	1.3	18
83	The GilsÃ¡ excursion and the Matuyama/Brunhes transition recorded in⁴⁰Ar/³⁹Ar dated lavas from Lanai and Maui, Hawaiian Islands. Geophysical Journal International, 2009, 179, 43-58.	1.0	16
84	Geomagnetic field intensity in Early Jurassic: investigation of the Newark Supergroup (eastern North) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.7	15
85	Multimethod detrital thermochronology of the Great Valley Group near New Idria, California. Bulletin of the Geological Society of America, 2006, 118, 210-218.	1.6	15
86	Cenozoic extension and tilting recorded in Upper Cretaceous and Tertiary rocks at the Hall molybdenum deposit, northern San Antonio Mountains, Nevada. Bulletin of the Geological Society of America, 1987, 99, 341.	1.6	15
87	New 40Ar/39Ar ages reveal contemporaneous mafic and silicic eruptions during the past 160,000 years at Mammoth Mountain and Long Valley caldera, California. Bulletin of the Geological Society of America, 2010, 122, 396-407.	1.6	14
88	Paleomagnetic results from the Upper Cretaceous Maudlow and Livingston formations, southwest Montana. Geophysical Research Letters, 1989, 16, 669-672.	1.5	13
89	Paleomagnetism and the motion of large and small plates. Reviews of Geophysics, 1983, 21, 644-651.	9.0	10
90	Confidence limits on net tectonic rotation. Geophysical Research Letters, 1984, 11, 825-827.	1.5	10

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91	Magnetic properties of Lake Lisan and Holocene Dead Sea sediments and the fidelity of chemical and detrital remanent magnetization. , 2006, , .		10
92	Chronology of Gold Mineralization in the Sierra Nevada Foothills from⁴⁰Ar/³⁹Ar Dating of Mariposite. International Geology Review, 2008, 50, 503-518.	1.1	10
93	Structural geology of the Mesozoic Miers Bluff Formation and crosscutting Paleogene dikes (Livingston Island, South Shetland Islands, Antarctica) â€“ Insights into the geodynamic history of the northern Antarctic Peninsula. Journal of South American Earth Sciences, 2008, 26, 498-512.	0.6	9
94	Application of paleomagnetism to accretionary tectonics and structural geology. Reviews of Geophysics, 1987, 25, 951-959.	9.0	8
95	Paleomagnetic results from granitic basement rocks in the Cajon Pass Scientific Drillhole. Geophysical Research Letters, 1988, 15, 1069-1072.	1.5	6
96	Palaeomagnetic results from the late Precambrian Chela Group of southwest Angola. Precambrian Research, 1992, 59, 1-13.	1.2	4
97	The locking-in of remanence in upper Pleistocene sediments of Lake Lisan (palaeo Dead Sea). Geological Society Special Publication, 1999, 151, 47-52.	0.8	2
98	Detrital zircon provenance analysis of the Great Valley Group, California: Evolution of an arc-forearc system. Bulletin of the Geological Society of America, 2003, 115, 639-639.	1.6	2