Marc D Norman

List of Publications by Year
in descending order

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113 papers	9,137 citations	34493 54 h-index	45040 94 g-index
113 all docs	113 docs citations	113 times ranked	6412 citing authors

#	Article	IF	Citations
1	Petrology of Koko Rift basalts: Hawaiâ€˜i's most recent and atypical rejuvenation stage eruptive sequence. Journal of Volcanology and Geothermal Research, 2022, 424, 107504.	0.8	1
2	Iron isotope systematics during igneous differentiation in lavas from KÄ«lauea and Mauna Loa, Hawai'i. Chemical Geology, 2022, 606, 120973.	1.4	2
3	Life history plasticity affects the population structure and distribution of the widespread migratory fish Galaxias brevipinnis. Marine and Freshwater Research, 2021, 72, 542.	0.7	3
4	Geology and geochronology of the Two-Thirty prospect, Northparkes district, NSW. Australian Journal of Earth Sciences, 2021, 68, 659-683.	0.4	1
5	KÄ«lauea's Puâ€˜u â€˜ÅŒâ€˜Å•Eruption (1983â€“2018): A synthesis of magmatic processes during a prolonged basaltic event. Chemical Geology, 2021, 581, 120391.	1.4	10
6	Age and composition of young basalts on the Moon, measured from samples returned by Changâ€™e-5. Science, 2021, 374, 887-890.	6.0	148
7	Cretaceous molybdenite in metasomatic epidosite associated with the Pounamu ophiolite, New Zealand. New Zealand Journal of Geology, and Geophysics, 2020, 63, 227-236.	1.0	1
8	A new method for U-Pb geochronology of cassiterite by ID-TIMS applied to the Mole Granite polymetallic system, eastern Australia. Chemical Geology, 2020, 539, 119539.	1.4	37
9	Acceptance for the 2019 Geochemical Society Distinguished Service Award to Marc Norman. Geochimica Et Cosmochimica Acta, 2020, 272, 288.	1.6	0
10	Impact History and Regolith Evolution on the Moon: Geochemistry and Ages of Glasses from the Apollo 16 Site. Journal of Geophysical Research E: Planets, 2019, 124, 3167-3180.	1.5	8
11	Terrestrial-like zircon in a clast from an Apollo 14 breccia. Earth and Planetary Science Letters, 2019, 510, 173-185.	1.8	56
12	Effects of melting, subduction-related metasomatism, and sub-solidus equilibration on the distribution of water contents in the mantle beneath the Rio Grande Rift. Geochimica Et Cosmochimica Acta, 2019, 266, 351-381.	1.6	11
13	Origin of the Earth and the Late Heavy Bombardment. , 2019, , 27-47.		5
14	Tracking Hadean processes in modern basalts with 142-Neodymium. Earth and Planetary Science Letters, 2018, 484, 184-191.	1.8	39
15	Lithium diffusion in olivine records magmatic priming of explosive basaltic eruptions. Earth and Planetary Science Letters, 2018, 500, 127-135.	1.8	27
16	Volcanic gas composition, metal dispersion and deposition during explosive volcanic eruptions on the Moon. Geochimica Et Cosmochimica Acta, 2017, 206, 296-311.	1.6	57
17	The Late Heavy Bombardment. Annual Review of Earth and Planetary Sciences, 2017, 45, 619-647.	4.6	173
18	Assessment of crystallographic orientation effects on secondary ion mass spectrometry (SIMS) analysis of cassiterite. Chemical Geology, 2017, 467, 122-133.	1.4	29

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19	Extensive wet episodes in Late Glacial Australia resulting from high-latitude forcings. Scientific Reports, 2017, 7, 44054.	1.6	19
20	Lake and species specific patterns of non-diadromous recruitment in amphidromous fish: the importance of local recruitment and habitat requirements. Marine and Freshwater Research, 2017, 68, 2315.	0.7	23
21	Crystal accumulation in a 4.2 Ga lunar impact melt. Geochimica Et Cosmochimica Acta, 2016, 172, 410-429.	1.6	35
22	Characterisation of the major dust storm that traversed over eastern Australia in September 2009; a multidisciplinary approach. Aeolian Research, 2014, 15, 133-149.	1.1	34
23	The origin of shoshonites: new insights from the Tertiary high-potassium intrusions of eastern Tibet. Contributions To Mineralogy and Petrology, 2014, 167, 1.	1.2	100
24	A 4.2 billion year old impact basin on the Moon: Uâ€“Pb dating of zirconolite and apatite in lunar melt rock 67955. Earth and Planetary Science Letters, 2014, 388, 387-398.	1.8	84
25	The composition and distribution of the rejuvenated component across the Hawaiian plume: Hfâ€Ndâ€Srâ€Pb isotope systematics of Kaula lavas and pyroxenite xenoliths. Geochemistry, Geophysics, Geosystems, 2013, 14, 4458-4478.	1.0	43
26	The discovery of kimberlites in Antarctica extends the vast Gondwanan Cretaceous province. Nature Communications, 2013, 4, 2921.	5.8	36
27	A Comparative Study of Five Reference Materials and the Lombard Meteorite for the Determination of the Platinumâ€Group Elements and Gold by LAâ€ICPâ€MS. Geostandards and Geoanalytical Research, 2013, 37, 51-64.	1.7	53
28	Element abundances, patterns, and mobility in Nakhlite Miller Range 03346 and implications for aqueous alteration. Geochimica Et Cosmochimica Acta, 2013, 112, 208-225.	1.6	17
29	Noble metals potential of sulfide-saturated melts from the subcontinental lithosphere. Geology, 2013, 41, 575-578.	2.0	20
30	Chemical heterogeneity in the Hawaiian mantle plume from the alteration and dehydration of recycled oceanic crust. Earth and Planetary Science Letters, 2013, 361, 298-309.	1.8	75
31	Provenance and Pb isotopic ages of lunar volcanic and impact glasses from the Apollo 17 landing site. Australian Journal of Earth Sciences, 2012, 59, 291-306.	0.4	18
32	From crucible to graben in 2.3 Ma: A high-resolution geochronological study of porphyry life cycles, Boyongan-Bayugo copper-gold deposits, Philippines. Geology, 2012, 40, 471-474.	2.0	43
33	A laser desorption resonance ionization mass spectrometer for Rb-Sr geochronology: Sr isotope results. , 2012, , .		4
34	Temporal, Isotopic and Spatial Relations of Early Paleozoic Gondwana-Margin Arc Magmatism, Central Transantarctic Mountains, Antarctica. Journal of Petrology, 2012, 53, 2027-2065.	1.1	74
35	Routine quantitative multi-element analysis of sulphide minerals by laser ablation ICP-MS: Standard development and consideration of matrix effects. Geochemistry: Exploration, Environment, Analysis, 2011, 11, 51-60.	0.5	211
36	Study of melt and a clast of 546 Ma magmatic arc rocks in the 65 Ma Chicxulub bolide breccia, northern Maya block, Mexico: western limit of Ediacaran arc peripheral to northern Gondwana. International Geology Review, 2011, 53, 1180-1193.	1.1	28

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37	Continent Formation in the Archean and Chemical Evolution of the Cratonic Lithosphere: Melt-Rock Reaction Experiments at 3-4 GPa and Petrogenesis of Archean Mg-Diorites (Sanukitoids). Journal of Petrology, 2010, 51, 1237-1266.	1.1	186
38	Imbrium provenance for the Apollo 16 Descartes terrain: Argon ages and geochemistry of lunar breccias 67016 and 67455. Geochimica Et Cosmochimica Acta, 2010, 74, 763-783.	1.6	78
39	Lead isotopic evidence for an Australian source of aeolian dust to Antarctica at times over the last 170,000years. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 285, 205-223.	1.0	67
40	Re-evaluation of the composition of sediments from the Murray Darling Basin of Australia as a Potential Source Area for airborne dust to EPICA Dome C in Antarctica. Reply to Comment on â€œLead isotopic evidence for an Australian source of aeolian dust to Antarctica at times over the last 170,000yearsâ€•by P. De Deckker, M. Norman, I.D. Goodwin, A. Wain and F.X. Gingele [Palaeogeography, Palaeoclimatology, Palaeoecology 285 (2010) 205â€“223]. Palaeogeography, Palaeoclimatology, Palaeoecology, 2010, 298, 437-442.	1.0	5
41	â‰¥3700Ma pre-metamorphic dolomite formed by microbial mediation in the Isua supracrustal belt (W.) Tj ETQq1 1 0.784314 rgBT /O	1.2	62
42	U-Pb zircon geochronology of Palaeozoic units in Western and Central Guatemala: insights into the tectonic evolution of Middle America. Geological Society Special Publication, 2009, 328, 295-313.	0.8	26
43	The Lunar Cataclysm: Reality or "Mythconception"?. Elements, 2009, 5, 23-28.	0.5	58
44	Evidence for subduction at 3.8ÂGa: Geochemistry of arc-like metabasalts from the southern edge of the Isua Supracrustal Belt. Chemical Geology, 2009, 261, 83-98.	1.4	122
45	Smâ€“Nd, Sr, C and O isotope systematics in hydrothermal calciteâ€“fluorite veins: Implications for fluidâ€“rock reaction and geochronology. Chemical Geology, 2009, 268, 58-66.	1.4	63
46	A late Pleistocene record of aeolian sedimentation in Blanche Cave, Naracoorte,ÂSouth Australia. Quaternary Science Reviews, 2009, 28, 2600-2615.	1.4	34
47	Does otolith chemistry indicate diadromous lifecycles for five Australian riverine fishes?. Marine and Freshwater Research, 2009, 60, 904.	0.7	20
48	Seawater-like trace element signatures (REEÂ+ÂY) of Eoarchaean chemical sedimentary rocks from southern West Greenland, and their corruption during high-grade metamorphism. Contributions To Mineralogy and Petrology, 2008, 155, 229-246.	1.2	71
49	Ordovicianâ€“Silurian rift-passive margin on the Mexican margin of the Rheic Ocean overlain by Carboniferousâ€“Permian periarc rocks: Evidence from the eastern AcatlÃ¡n Complex, southern Mexico. Tectonophysics, 2008, 461, 291-310.	0.9	33
50	Subduction recycling of continental sediments and the origin of geochemically enriched reservoirs in the deep mantle. Earth and Planetary Science Letters, 2008, 271, 14-23.	1.8	126
51	A laser-ablation ICP-MS study of Apollo 15 low-titanium olivine-normative and quartz-normative mare basalts. Geochimica Et Cosmochimica Acta, 2008, 72, 2556-2572.	1.6	33
52	Geochemical Variations during Kilauea's Pu'u 'O'o Eruption Reveal a Fine-scale Mixture of Mantle Heterogeneities within the Hawaiian Plume. Journal of Petrology, 2008, 49, 1297-1318.	1.1	38
53	Late Pleistocene and Holocene climate of SE Australia reconstructed from dust and river loads deposited offshore the River Murray Mouth. Earth and Planetary Science Letters, 2007, 255, 257-272.	1.8	92
54	Thallium isotopes in Iceland and Azores lavas â€” Implications for the role of altered crust and mantle geochemistry. Earth and Planetary Science Letters, 2007, 264, 332-345.	1.8	58

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55	Submarine radial vents on Mauna Loa Volcano, Hawai'i. Geochemistry, Geophysics, Geosystems, 2006, 7, n/a-n/a.	1.0	25
56	Magnesium isotopic composition of olivine from the Earth, Mars, Moon, and pallasite parent body. Geophysical Research Letters, 2006, 33, .	1.5	30
57	Magnesium isotopic analysis of olivine by laser-ablation multi-collector ICP-MS: composition dependent matrix effects and a comparison of the Earth and Moon. Journal of Analytical Atomic Spectrometry, 2006, 21, 50-54.	1.6	46
58	Identifying impact events within the lunar cataclysm from 40Arâ€“39Ar ages and compositions of Apollo 16 impact melt rocks. Geochimica Et Cosmochimica Acta, 2006, 70, 6032-6049.	1.6	71
59	Thallium isotopic evidence for ferromanganese sediments in the mantle source of Hawaiian basalts. Nature, 2006, 439, 314-317.	13.7	106
60	Isotopic enhancements of 17O and 18O from solar wind particles in the lunar regolith. Nature, 2006, 440, 776-778.	13.7	71
61	Shield-stage alkalic volcanism on Mauna Loa Volcano, Hawaii. Journal of Volcanology and Geothermal Research, 2006, 151, 141-155.	0.8	33
62	Detrital Zircon Ages from Early Proterozoic Quartzites, Wisconsin, Support Rapid Weathering and Deposition of Mature Quartz Arenites: A Reply. Journal of Geology, 2005, 113, 235-236.	0.7	9
63	Lunar impact breccias: petrology, crater setting, and bombardment history of the Moon. Australian Journal of Earth Sciences, 2005, 52, 711-723.	0.4	4
64	Trace-element distribution coefficients for pyroxenes, plagioclase, and olivine in evolved tholeiites from the 1955 eruption of Kilauea Volcano, Hawai'i, and petrogenesis of differentiated rift-zone lavas. American Mineralogist, 2005, 90, 888-899.	0.9	73
65	Major element and primary sulfur concentrations in Apollo 12 mare basalts: The view from melt inclusions. Meteoritics and Planetary Science, 2005, 40, 679-693.	0.7	30
66	Geochemical Evidence for Excess Iron in the Mantle Beneath Hawaii. Science, 2004, 306, 91-94.	6.0	206
67	Tungsten isotope evidence that mantle plumes contain no contribution from the Earth's core. Nature, 2004, 427, 234-237.	13.7	121
68	Origins of compositional heterogeneity in olivine-hosted melt inclusions from the Baffin Island picrites. Contributions To Mineralogy and Petrology, 2004, 148, 426-442.	1.2	40
69	Detrital Zircon Ages from Early Proterozoic Quartzites, Wisconsin, Support Rapid Weathering and Deposition of Mature Quartz Arenites. Journal of Geology, 2004, 112, 305-315.	0.7	34
70	Rhenium and chalcophile elements in basaltic glasses from Koâ€™olau and Molokaâ€™i volcanoes: Magmatic outgassing and composition of the Hawaiian plume. Geochimica Et Cosmochimica Acta, 2004, 68, 3761-3777.	1.6	89
71	Growth of early continental crust by partial melting of eclogite. Nature, 2003, 425, 605-609.	13.7	637
72	Major and Trace Element Analysis of Silicate Rocks by XRF and Laser Ablation ICP-MS Using Lithium Borate Fused Glasses: Matrix Effects, Instrument Response and Results for International Reference Materials. Geostandards and Geoanalytical Research, 2003, 27, 67-89.	1.7	70

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73	Northwest Africa 773: Lunar origin and ironâ€enrichment trend. Meteoritics and Planetary Science, 2003, 38, 529-554.	0.7	67
74	Chronology, geochemistry, and petrology of a ferroan noritic anorthosite clast from Descartes breccia 67215: Clues to the age, origin, structure, and impact history of the lunar crust. Meteoritics and Planetary Science, 2003, 38, 645-661.	0.7	179
75	Osmium isotopic compositions by vapor phase sample introduction using a multi-collector ICP-MS. Journal of Analytical Atomic Spectrometry, 2002, 17, 1394-1397.	1.6	26
76	Olivine-hosted melt inclusions in Hawaiian picrites: equilibration, melting, and plume source characteristics. Chemical Geology, 2002, 183, 143-168.	1.4	61
77	Targeting the impactors: siderophile element signatures of lunar impact melts from Serenitatis. Earth and Planetary Science Letters, 2002, 202, 217-228.	1.8	71
78	Impact processing of chondritic planetesimals: Siderophile and volatile element fractionation in the Chico L chondrite. Meteoritics and Planetary Science, 2002, 37, 329-344.	0.7	20
79	Remnants of Gondwanan continental lithosphere in oceanic upper mantle: Evidence from the South Atlantic Ridge. Geology, 2001, 29, 243.	2.0	80
80	Noble gases in pyroxenites and metasomatised peridotites from the Newer Volcanics, southeastern Australia: implications for mantle metasomatism. Chemical Geology, 2000, 168, 49-73.	1.4	73
81	Rhenium and platinum group element abundances correlated with mantle source components in Hawaiian picrites: sulphides in the plume. Earth and Planetary Science Letters, 2000, 183, 513-526.	1.8	118
82	Nature of the lithospheric mantle beneath the eastern part of the Central Asian fold belt: mantle xenolith evidence. Tectonophysics, 2000, 328, 131-156.	0.9	79
83	Major and trace element compositions of georgiaites: Clues to the source of North American tektites. Meteoritics and Planetary Science, 2000, 35, 795-806.	0.7	16
84	Meta-igneous (non-gneissic) tonalites and quartz-diorites from an extensive ca. 3800 Ma terrain south of the Isua supracrustal belt, southern West Greenland: constraints on early crust formation. Contributions To Mineralogy and Petrology, 1999, 137, 364-388.	1.2	167
85	The composition and thickness of the crust of Mars estimated from rare earth elements and neodymiumâ€isotopic compositions of Martian meteorites. Meteoritics and Planetary Science, 1999, 34, 439-449.	0.7	106
86	The granulitic impactite suite: Impact melts and metamorphic breccias of the early lunar crust. Meteoritics and Planetary Science, 1999, 34, 185-195.	0.7	52
87	Assimilation of seawater-derived components in an oceanic volcano: evidence from matrix glasses and glass inclusions from Loihi seamount, Hawaii. Chemical Geology, 1999, 156, 299-319.	1.4	114
88	Reaction between slab-derived melts and peridotite in the mantle wedge: experimental constraints at 3.8 GPa. Chemical Geology, 1999, 160, 335-356.	1.4	1,497
89	Primitive magmas and source characteristics of the Hawaiian plume: petrology and geochemistry of shield picrites. Earth and Planetary Science Letters, 1999, 168, 27-44.	1.8	210
90	186Osâ€“187Os systematics of Hawaiian picrites. Earth and Planetary Science Letters, 1999, 174, 25-42.	1.8	200

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91	4He as a tracer of continental dust: a 1.9 million year record of aeolian flux to the west equatorial Pacific Ocean. Geochimica Et Cosmochimica Acta, 1999, 63, 615-625.	1.6	59
92	Isotopic studies of ferroan anorthosite 62236: a young lunar crustal rock from a light rare-earth-element-depleted source. Geochimica Et Cosmochimica Acta, 1999, 63, 2679-2691.	1.6	107
93	Widespread assimilation of a seawater-derived component at Loihi Seamount, Hawaii. Geochimica Et Cosmochimica Acta, 1999, 63, 2749-2761.	1.6	96
94	Melting and metasomatism in the continental lithosphere: laser ablation ICPMS analysis of minerals in spinel lherzolites from eastern Australia. Contributions To Mineralogy and Petrology, 1998, 130, 240-255.	1.2	213
95	Petrology and geochronology of basalt breccia from the 1996 earthquake swarm of Loihi seamount, Hawaii: magmatic history of its 1996 eruption. Bulletin of Volcanology, 1998, 59, 577-592.	1.1	68
96	Coupled 186Os and 187Os Evidence for Core-Mantle Interaction. Science, 1998, 280, 1570-1573.	6.0	247
97	Quantitative analysis of trace element abundances in glasses and minerals: a comparison of laser ablation inductively coupled plasma mass spectrometry, solution inductively coupled plasma mass spectrometry, proton microprobe and electron microprobe data. Journal of Analytical Atomic Spectrometry, 1998, 13, 477-482.	1.6	196
98	Two mantle-plume components in Hawaiian picrites inferred from correlated Osâ€“Pb isotopes. Nature, 1996, 381, 221-224.	13.7	105
99	Fragments of ancient lunar crust: Petrology and geochemistry of ferroan noritic anorthosites from the Descartes region of the Moon. Geochimica Et Cosmochimica Acta, 1995, 59, 831-847.	1.6	40
100	39Arî—¸40Ar age and petrology of Chico: Large-scale impact melting on the L chondrite parent body. Geochimica Et Cosmochimica Acta, 1995, 59, 1383-1399.	1.6	118
101	An ancient Sm-Nd age for a ferroan noritic anorthosite clast from lunar breccia 67016. Geochimica Et Cosmochimica Acta, 1994, 58, 2921-2926.	1.6	92
102	Geochemical zoning and eruptive mixing in ignimbrites from Mangakino volcano, Taupo Volcanic Zone, New Zealand. Journal of Volcanology and Geothermal Research, 1993, 56, 175-203.	0.8	74
103	Sudbury Igneous Complex: Impact melt or endogenous magma? Implications for lunar crustal evolution. Special Paper of the Geological Society of America, 1992, , 331-342.	0.5	8
104	Granites and rhyolites from the northwestern U.S.A.: temporal variation in magmatic processes and relations to tectonic setting. Special Paper of the Geological Society of America, 1992, , 71-82.	0.5	1
105	Geochemistry of lunar crustal rocks from breccia 67016 and the composition of the Moon. Geochimica Et Cosmochimica Acta, 1992, 56, 1013-1024.	1.6	18
106	Granites and rhyolites from the northwestern U.S.A.: temporal variation in magmatic processes and relations to tectonic setting. Earth and Environmental Science Transactions of the Royal Society of Edinburgh, 1992, 83, 71-81.	0.3	17
107	Mineral compositions in pristine lunar highland rocks and the diversity of highland magmatism. Geophysical Research Letters, 1991, 18, 2085-2088.	1.5	19
108	Additional complexity in the lunar crust: Petrology of sodic anorthosites and sulfurâ€rich, ferroan noritic anorthosites. Geophysical Research Letters, 1991, 18, 2081-2084.	1.5	12

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109	Petrogenesis of Challis volcanics from central and southwestern Idaho: Trace element and Pb isotopic evidence. Journal of Geophysical Research, 1991, 96, 13279-13293.	3.3	38
110	Trace metals in lacustrine and marine sediments: A case study from the Gulf of Carpentaria, northern Australia. Chemical Geology, 1990, 82, 299-318.	1.4	32
111	Open-system magmatic evolution of andesites and basalts from the Salmon Creek volcanics, southwestern Idaho, U.S.A.. Chemical Geology, 1990, 81, 167-189.	1.4	10
112	Geochemical evolution of Cenozoic-Cretaceous magmatism and its relation to tectonic setting, southwestern Idaho, U.S.A. Earth and Planetary Science Letters, 1989, 94, 78-96.	1.8	39
113	Luna 24 ferrobasalt as a low-Mg primary melt. The Moon and the Planets, 1980, 23, 271-292.	0.5	0