

# Marc D Norman

## List of Publications by Year in descending order

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113  
papers

9,137  
citations

30070

54  
h-index

39675

94  
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113  
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113  
docs citations

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times ranked

5732  
citing authors

#	ARTICLE	IF	CITATIONS
1	Petrology of Koko Rift basalts: Hawai'i's most recent and atypical rejuvenation stage eruptive sequence. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 424, 107504.	2.1	1
2	Iron isotope systematics during igneous differentiation in lavas from K�lauea and Mauna Loa, Hawai'i. <i>Chemical Geology</i> , 2022, 606, 120973.	3.3	2
3	Life history plasticity affects the population structure and distribution of the widespread migratory fish <i>Galaxias brevipinnis</i> . <i>Marine and Freshwater Research</i> , 2021, 72, 542.	1.3	3
4	Geology and geochronology of the Two-Thirty prospect, Northparkes district, NSW. <i>Australian Journal of Earth Sciences</i> , 2021, 68, 659-683.	1.0	1
5	K�lauea's Pu�u �� Eruption (1983�2018): A synthesis of magmatic processes during a prolonged basaltic event. <i>Chemical Geology</i> , 2021, 581, 120391.	3.3	10
6	Age and composition of young basalts on the Moon, measured from samples returned by Chang�e-5. <i>Science</i> , 2021, 374, 887-890.	12.6	148
7	Cretaceous molybdenite in metasomatic epidosite associated with the Pounamu ophiolite, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2020, 63, 227-236.	1.8	1
8	A new method for U-Pb geochronology of cassiterite by ID-TIMS applied to the Mole Granite polymetallic system, eastern Australia. <i>Chemical Geology</i> , 2020, 539, 119539.	3.3	37
9	Acceptance for the 2019 Geochemical Society Distinguished Service Award to Marc Norman. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 272, 288.	3.9	0
10	Impact History and Regolith Evolution on the Moon: Geochemistry and Ages of Glasses from the Apollo 16 Site. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3167-3180.	3.6	8
11	Terrestrial-like zircon in a clast from an Apollo 14 breccia. <i>Earth and Planetary Science Letters</i> , 2019, 510, 173-185.	4.4	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. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 266, 351-381.	3.9	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. <i>Earth and Planetary Science Letters</i> , 2018, 484, 184-191.	4.4	39
15	Lithium diffusion in olivine records magmatic priming of explosive basaltic eruptions. <i>Earth and Planetary Science Letters</i> , 2018, 500, 127-135.	4.4	27
16	Volcanic gas composition, metal dispersion and deposition during explosive volcanic eruptions on the Moon. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 206, 296-311.	3.9	57
17	The Late Heavy Bombardment. <i>Annual Review of Earth and Planetary Sciences</i> , 2017, 45, 619-647.	11.0	173
18	Assessment of crystallographic orientation effects on secondary ion mass spectrometry (SIMS) analysis of cassiterite. <i>Chemical Geology</i> , 2017, 467, 122-133.	3.3	29

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19	Extensive wet episodes in Late Glacial Australia resulting from high-latitude forcings. <i>Scientific Reports</i> , 2017, 7, 44054.	3.3	19
20	Lake and species specific patterns of non-diadromous recruitment in amphidromous fish: the importance of local recruitment and habitat requirements. <i>Marine and Freshwater Research</i> , 2017, 68, 2315.	1.3	23
21	Crystal accumulation in a 4.2 Ga lunar impact melt. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 172, 410-429.	3.9	35
22	Characterisation of the major dust storm that traversed over eastern Australia in September 2009; a multidisciplinary approach. <i>Aeolian Research</i> , 2014, 15, 133-149.	2.7	34
23	The origin of shoshonites: new insights from the Tertiary high-potassium intrusions of eastern Tibet. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	100
24	A 4.2 billion year old impact basin on the Moon: U-Pb dating of zirconolite and apatite in lunar melt rock 67955. <i>Earth and Planetary Science Letters</i> , 2014, 388, 387-398.	4.4	84
25	The composition and distribution of the rejuvenated component across the Hawaiian plume: Hf-Nd-Sr-Pb isotope systematics of Kaula lavas and pyroxenite xenoliths. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 4458-4478.	2.5	43
26	The discovery of kimberlites in Antarctica extends the vast Gondwanan Cretaceous province. <i>Nature Communications</i> , 2013, 4, 2921.	12.8	36
27	A Comparative Study of Five Reference Materials and the Lombard Meteorite for the Determination of the Platinum-Group Elements and Gold by LA-ICP-MS. <i>Geostandards and Geoanalytical Research</i> , 2013, 37, 51-64.	3.1	53
28	Element abundances, patterns, and mobility in Nakhilite Miller Range 03346 and implications for aqueous alteration. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 112, 208-225.	3.9	17
29	Noble metals potential of sulfide-saturated melts from the subcontinental lithosphere. <i>Geology</i> , 2013, 41, 575-578.	4.4	20
30	Chemical heterogeneity in the Hawaiian mantle plume from the alteration and dehydration of recycled oceanic crust. <i>Earth and Planetary Science Letters</i> , 2013, 361, 298-309.	4.4	75
31	Provenance and Pb isotopic ages of lunar volcanic and impact glasses from the Apollo 17 landing site. <i>Australian Journal of Earth Sciences</i> , 2012, 59, 291-306.	1.0	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. <i>Geology</i> , 2012, 40, 471-474.	4.4	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. <i>Journal of Petrology</i> , 2012, 53, 2027-2065.	2.8	74
35	Routine quantitative multi-element analysis of sulphide minerals by laser ablation ICP-MS: Standard development and consideration of matrix effects. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2011, 11, 51-60.	0.9	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. <i>International Geology Review</i> , 2011, 53, 1180-1193.	2.1	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). <i>Journal of Petrology</i> , 2010, 51, 1237-1266.	2.8	186
38	Imbrium provenance for the Apollo 16 Descartes terrain: Argon ages and geochemistry of lunar breccias 67016 and 67455. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 763-783.	3.9	78
39	Lead isotopic evidence for an Australian source of aeolian dust to Antarctica at times over the last 170,000 years. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 285, 205-223.	2.3	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 "Lead isotopic evidence for an Australian source of aeolian dust to Antarctica at times over the last 170,000 years" by P. De Deckker, M. Norman, I.D. Goodwin, A. Wain and F.X. Gingele [ <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 298, 437-442]. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2010, 298, 437-442.	2.3	5
41	~3700 Ma pre-metamorphic dolomite formed by microbial mediation in the Isua supracrustal belt (W.) <i>Tectonophysics</i> , 2009, 477, 1-14.	2.7	62
42	U-Pb zircon geochronology of Palaeozoic units in Western and Central Guatemala: insights into the tectonic evolution of Middle America. <i>Geological Society Special Publication</i> , 2009, 328, 295-313.	1.3	26
43	The Lunar Cataclysm: Reality or "Mythconception"? <i>Elements</i> , 2009, 5, 23-28.	0.5	58
44	Evidence for subduction at 3.8 Ga: Geochemistry of arc-like metabasalts from the southern edge of the Isua Supracrustal Belt. <i>Chemical Geology</i> , 2009, 261, 83-98.	3.3	122
45	Sm-Nd, Sr, C and O isotope systematics in hydrothermal calcite-fluorite veins: Implications for fluid-rock reaction and geochronology. <i>Chemical Geology</i> , 2009, 268, 58-66.	3.3	63
46	A late Pleistocene record of aeolian sedimentation in Blanche Cave, Naracoorte, South Australia. <i>Quaternary Science Reviews</i> , 2009, 28, 2600-2615.	3.0	34
47	Does otolith chemistry indicate diadromous lifecycles for five Australian riverine fishes? <i>Marine and Freshwater Research</i> , 2009, 60, 904.	1.3	20
48	Seawater-like trace element signatures (REE+Y) of Eoarchean chemical sedimentary rocks from southern West Greenland, and their corruption during high-grade metamorphism. <i>Contributions To Mineralogy and Petrology</i> , 2008, 155, 229-246.	3.1	71
49	Ordovician-Silurian rift-passive margin on the Mexican margin of the Rheic Ocean overlain by Carboniferous-Permian periarctic rocks: Evidence from the eastern Acatlán Complex, southern Mexico. <i>Tectonophysics</i> , 2008, 461, 291-310.	2.2	33
50	Subduction recycling of continental sediments and the origin of geochemically enriched reservoirs in the deep mantle. <i>Earth and Planetary Science Letters</i> , 2008, 271, 14-23.	4.4	126
51	A laser-ablation ICP-MS study of Apollo 15 low-titanium olivine-normative and quartz-normative mare basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 2556-2572.	3.9	33
52	Geochemical Variations during Kilauea's Pu'u 'O'o Eruption Reveal a Fine-scale Mixture of Mantle Heterogeneities within the Hawaiian Plume. <i>Journal of Petrology</i> , 2008, 49, 1297-1318.	2.8	38
53	Late Pleistocene and Holocene climate of SE Australia reconstructed from dust and river loads deposited offshore the River Murray Mouth. <i>Earth and Planetary Science Letters</i> , 2007, 255, 257-272.	4.4	92
54	Thallium isotopes in Iceland and Azores lavas: Implications for the role of altered crust and mantle geochemistry. <i>Earth and Planetary Science Letters</i> , 2007, 264, 332-345.	4.4	58

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55	Submarine radial vents on Mauna Loa Volcano, Hawai'i. <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	25
56	Magnesium isotopic composition of olivine from the Earth, Mars, Moon, and pallasite parent body. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	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. <i>Journal of Analytical Atomic Spectrometry</i> , 2006, 21, 50-54.	3.0	46
58	Identifying impact events within the lunar cataclysm from $^{40}\text{Ar}$ - $^{39}\text{Ar}$ ages and compositions of Apollo 16 impact melt rocks. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 6032-6049.	3.9	71
59	Thallium isotopic evidence for ferromanganese sediments in the mantle source of Hawaiian basalts. <i>Nature</i> , 2006, 439, 314-317.	27.8	106
60	Isotopic enhancements of $^{17}\text{O}$ and $^{18}\text{O}$ from solar wind particles in the lunar regolith. <i>Nature</i> , 2006, 440, 776-778.	27.8	71
61	Shield-stage alkalic volcanism on Mauna Loa Volcano, Hawaii. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 151, 141-155.	2.1	33
62	Detrital Zircon Ages from Early Proterozoic Quartzites, Wisconsin, Support Rapid Weathering and Deposition of Mature Quartz Arenites: A Reply. <i>Journal of Geology</i> , 2005, 113, 235-236.	1.4	9
63	Lunar impact breccias: petrology, crater setting, and bombardment history of the Moon. <i>Australian Journal of Earth Sciences</i> , 2005, 52, 711-723.	1.0	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. <i>American Mineralogist</i> , 2005, 90, 888-899.	1.9	73
65	Major element and primary sulfur concentrations in Apollo 12 mare basalts: The view from melt inclusions. <i>Meteoritics and Planetary Science</i> , 2005, 40, 679-693.	1.6	30
66	Geochemical Evidence for Excess Iron in the Mantle Beneath Hawaii. <i>Science</i> , 2004, 306, 91-94.	12.6	206
67	Tungsten isotope evidence that mantle plumes contain no contribution from the Earth's core. <i>Nature</i> , 2004, 427, 234-237.	27.8	121
68	Origins of compositional heterogeneity in olivine-hosted melt inclusions from the Baffin Island picrites. <i>Contributions To Mineralogy and Petrology</i> , 2004, 148, 426-442.	3.1	40
69	Detrital Zircon Ages from Early Proterozoic Quartzites, Wisconsin, Support Rapid Weathering and Deposition of Mature Quartz Arenites. <i>Journal of Geology</i> , 2004, 112, 305-315.	1.4	34
70	Rhenium and chalcophile elements in basaltic glasses from Koala and Molokai volcanoes: Magmatic outgassing and composition of the Hawaiian plume. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3761-3777.	3.9	89
71	Growth of early continental crust by partial melting of eclogite. <i>Nature</i> , 2003, 425, 605-609.	27.8	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. <i>Geostandards and Geoanalytical Research</i> , 2003, 27, 67-89.	3.1	70

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73	Northwest Africa 773: Lunar origin and iron enrichment trend. <i>Meteoritics and Planetary Science</i> , 2003, 38, 529-554.	1.6	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. <i>Meteoritics and Planetary Science</i> , 2003, 38, 645-661.	1.6	179
75	Osmium isotopic compositions by vapor phase sample introduction using a multi-collector ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2002, 17, 1394-1397.	3.0	26
76	Olivine-hosted melt inclusions in Hawaiian picrites: equilibration, melting, and plume source characteristics. <i>Chemical Geology</i> , 2002, 183, 143-168.	3.3	61
77	Targeting the impactors: siderophile element signatures of lunar impact melts from Serenitatis. <i>Earth and Planetary Science Letters</i> , 2002, 202, 217-228.	4.4	71
78	Impact processing of chondritic planetesimals: Siderophile and volatile element fractionation in the Chico L chondrite. <i>Meteoritics and Planetary Science</i> , 2002, 37, 329-344.	1.6	20
79	Remnants of Gondwanan continental lithosphere in oceanic upper mantle: Evidence from the South Atlantic Ridge. <i>Geology</i> , 2001, 29, 243.	4.4	80
80	Noble gases in pyroxenites and metasomatised peridotites from the Newer Volcanics, southeastern Australia: implications for mantle metasomatism. <i>Chemical Geology</i> , 2000, 168, 49-73.	3.3	73
81	Rhenium and platinum group element abundances correlated with mantle source components in Hawaiian picrites: sulphides in the plume. <i>Earth and Planetary Science Letters</i> , 2000, 183, 513-526.	4.4	118
82	Nature of the lithospheric mantle beneath the eastern part of the Central Asian fold belt: mantle xenolith evidence. <i>Tectonophysics</i> , 2000, 328, 131-156.	2.2	79
83	Major and trace element compositions of georgiites: Clues to the source of North American tektites. <i>Meteoritics and Planetary Science</i> , 2000, 35, 795-806.	1.6	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. <i>Contributions To Mineralogy and Petrology</i> , 1999, 137, 364-388.	3.1	167
85	The composition and thickness of the crust of Mars estimated from rare earth elements and neodymium isotopic compositions of Martian meteorites. <i>Meteoritics and Planetary Science</i> , 1999, 34, 439-449.	1.6	106
86	The granulitic impactite suite: Impact melts and metamorphic breccias of the early lunar crust. <i>Meteoritics and Planetary Science</i> , 1999, 34, 185-195.	1.6	52
87	Assimilation of seawater-derived components in an oceanic volcano: evidence from matrix glasses and glass inclusions from Loihi seamount, Hawaii. <i>Chemical Geology</i> , 1999, 156, 299-319.	3.3	114
88	Reaction between slab-derived melts and peridotite in the mantle wedge: experimental constraints at 3.8 GPa. <i>Chemical Geology</i> , 1999, 160, 335-356.	3.3	1,497
89	Primitive magmas and source characteristics of the Hawaiian plume: petrology and geochemistry of shield picrites. <i>Earth and Planetary Science Letters</i> , 1999, 168, 27-44.	4.4	210
90	<sup>186</sup> Os- <sup>187</sup> Os systematics of Hawaiian picrites. <i>Earth and Planetary Science Letters</i> , 1999, 174, 25-42.	4.4	200

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91	<sup>4</sup> He as a tracer of continental dust: a 1.9 million year record of aeolian flux to the west equatorial Pacific Ocean. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 615-625.	3.9	59
92	Isotopic studies of ferroan anorthosite 62236: a young lunar crustal rock from a light rare-earth-element-depleted source. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2679-2691.	3.9	107
93	Widespread assimilation of a seawater-derived component at Loihi Seamount, Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2749-2761.	3.9	96
94	Melting and metasomatism in the continental lithosphere: laser ablation ICPMS analysis of minerals in spinel lherzolites from eastern Australia. <i>Contributions To Mineralogy and Petrology</i> , 1998, 130, 240-255.	3.1	213
95	Petrology and geochronology of basalt breccia from the 1996 earthquake swarm of Loihi seamount, Hawaii: magmatic history of its 1996 eruption. <i>Bulletin of Volcanology</i> , 1998, 59, 577-592.	3.0	68
96	Coupled <sup>186</sup> O and <sup>187</sup> O Evidence for Core-Mantle Interaction. <i>Science</i> , 1998, 280, 1570-1573.	12.6	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. <i>Journal of Analytical Atomic Spectrometry</i> , 1998, 13, 477-482.	3.0	196
98	Two mantle-plume components in Hawaiian picrites inferred from correlated Os- <sup>187</sup> Pb isotopes. <i>Nature</i> , 1996, 381, 221-224.	27.8	105
99	Fragments of ancient lunar crust: Petrology and geochemistry of ferroan noritic anorthosites from the Descartes region of the Moon. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 831-847.	3.9	40
100	<sup>39</sup> Ar- <sup>40</sup> Ar age and petrology of Chico: Large-scale impact melting on the L chondrite parent body. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 1383-1399.	3.9	118
101	An ancient Sm-Nd age for a ferroan noritic anorthosite clast from lunar breccia 67016. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 2921-2926.	3.9	92
102	Geochemical zoning and eruptive mixing in ignimbrites from Mangakino volcano, Taupo Volcanic Zone, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 1993, 56, 175-203.	2.1	74
103	Sudbury Igneous Complex: Impact melt or endogenous magma? Implications for lunar crustal evolution. <i>Special Paper of the Geological Society of America</i> , 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. <i>Special Paper of the Geological Society of America</i> , 1992, , 71-82.	0.5	1
105	Geochemistry of lunar crustal rocks from breccia 67016 and the composition of the Moon. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 1013-1024.	3.9	18
106	Granites and rhyolites from the northwestern U.S.A.: temporal variation in magmatic processes and relations to tectonic setting. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 1992, 83, 71-81.	0.3	17
107	Mineral compositions in pristine lunar highland rocks and the diversity of highland magmatism. <i>Geophysical Research Letters</i> , 1991, 18, 2085-2088.	4.0	19
108	Additional complexity in the lunar crust: Petrology of sodic anorthosites and sulfur-rich, ferroan noritic anorthosites. <i>Geophysical Research Letters</i> , 1991, 18, 2081-2084.	4.0	12

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109	Petrogenesis of Challis volcanics from central and southwestern Idaho: Trace element and Pb isotopic evidence. <i>Journal of Geophysical Research</i> , 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. <i>Chemical Geology</i> , 1990, 82, 299-318.	3.3	32
111	Open-system magmatic evolution of andesites and basalts from the Salmon Creek volcanics, southwestern Idaho, U.S.A.. <i>Chemical Geology</i> , 1990, 81, 167-189.	3.3	10
112	Geochemical evolution of Cenozoic-Cretaceous magmatism and its relation to tectonic setting, southwestern Idaho, U.S.A. <i>Earth and Planetary Science Letters</i> , 1989, 94, 78-96.	4.4	39
113	Luna 24 ferrobalt as a low-Mg primary melt. <i>The Moon and the Planets</i> , 1980, 23, 271-292.	0.5	0