

# James Day

## List of Publications by Citations

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142  
papers

4,581  
citations

40  
h-index

63  
g-index

167  
ext. papers

5,452  
ext. citations

8.2  
avg. IF

6.07  
L-index

#	Paper	IF	Citations
142	Zinc isotopic evidence for the origin of the Moon. <i>Nature</i> , <b>2012</b> , 490, 376-9	50.4	180
141	Anomalous sulphur isotopes in plume lavas reveal deep mantle storage of Archaean crust. <i>Nature</i> , <b>2013</b> , 496, 490-3	50.4	169
140	Stochastic late accretion to Earth, the Moon, and Mars. <i>Science</i> , <b>2010</b> , 330, 1527-30	33.3	164
139	Highly siderophile element constraints on accretion and differentiation of the Earth-Moon system. <i>Science</i> , <b>2007</b> , 315, 217-9	33.3	146
138	Tungsten-182 heterogeneity in modern ocean island basalts. <i>Science</i> , <b>2017</b> , 356, 66-69	33.3	127
137	Oxygen isotope constraints on the origin and differentiation of the Moon. <i>Earth and Planetary Science Letters</i> , <b>2007</b> , 253, 254-265	5.3	111
136	Evidence for distinct proportions of subducted oceanic crust and lithosphere in HIMU-type mantle beneath El Hierro and La Palma, Canary Islands. <i>Geochimica Et Cosmochimica Acta</i> , <b>2010</b> , 74, 6565-6589	5.5	110
135	Evolution of the martian mantle inferred from the $^{187}\text{Re}/^{187}\text{Os}$ isotope and highly siderophile element abundance systematics of shergottite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , <b>2012</b> , 76, 206-235	5.5	101
134	Late accretion as a natural consequence of planetary growth. <i>Nature Geoscience</i> , <b>2012</b> , 5, 614-617	18.3	101
133	Petrogenesis of olivine-phyric shergottite Larkman Nunatak 06319: Implications for enriched components in martian basalts. <i>Geochimica Et Cosmochimica Acta</i> , <b>2009</b> , 73, 2190-2214	5.5	101
132	Pyroxenite-rich mantle formed by recycled oceanic lithosphere: Oxygen-osmium isotope evidence from Canary Island lavas. <i>Geology</i> , <b>2009</b> , 37, 555-558	5	99
131	Petrology and chemistry of MIL 03346 and its significance in understanding the petrogenesis of nakhlites on Mars. <i>Meteoritics and Planetary Science</i> , <b>2006</b> , 41, 581-606	2.8	97
130	Extensive volatile loss during formation and differentiation of the Moon. <i>Nature Communications</i> , <b>2015</b> , 6, 7617	17.4	95
129	Hotspot volcanism and highly siderophile elements. <i>Chemical Geology</i> , <b>2013</b> , 341, 50-74	4.2	90
128	Highly Siderophile Elements in Earth, Mars, the Moon, and Asteroids. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2016</b> , 81, 161-238	7.1	82
127	Osmium isotope and highly siderophile element systematics of the lunar crust. <i>Earth and Planetary Science Letters</i> , <b>2010</b> , 289, 595-605	5.3	78
126	PLANETARY-SCALE STRONTIUM ISOTOPIC HETEROGENEITY AND THE AGE OF VOLATILE DEPLETION OF EARLY SOLAR SYSTEM MATERIALS. <i>Astrophysical Journal</i> , <b>2012</b> , 758, 45	4.7	77

125	Isotopic links between atmospheric chemistry and the deep sulphur cycle on Mars. <i>Nature</i> , <b>2014</b> , 508, 364-8	50.4	75
124	Highly siderophile element depletion in the Moon. <i>Earth and Planetary Science Letters</i> , <b>2015</b> , 423, 114-124	5.3	74
123	Origin of felsic achondrites Graves Nunataks 06128 and 06129, and ultramafic brachinites and brachinite-like achondrites by partial melting of volatile-rich primitive parent bodies. <i>Geochimica Et Cosmochimica Acta</i> , <b>2012</b> , 81, 94-128	5.5	71
122	Evaporative fractionation of volatile stable isotopes and their bearing on the origin of the Moon. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2014</b> , 372, 20130259	5.9	70
121	High- $^3\text{He}/^4\text{He}$ , depleted mantle and low- $\delta^{18}\text{O}$ , recycled oceanic lithosphere in the source of central Iceland magmatism. <i>Earth and Planetary Science Letters</i> , <b>2005</b> , 233, 411-427	5.3	70
120	$^{186}\text{Os}/^{187}\text{Os}$ and highly siderophile element abundance systematics of the mantle revealed by abyssal peridotites and Os-rich alloys. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 200, 232-254	5.5	68
119	Chemical heterogeneity in the upper mantle recorded by peridotites and chromitites from the Shetland Ophiolite Complex, Scotland. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 333-334, 226-237	5.3	67
118	Phantom Archean crust in Mangaia hotspot lavas and the meaning of heterogeneous mantle. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 396, 97-106	5.3	65
117	Multiple Generations of Granite in the Fosdick Mountains, Marie Byrd Land, West Antarctica: Implications for Polyphase Intracrustal Differentiation in a Continental Margin Setting. <i>Journal of Petrology</i> , <b>2010</b> , 51, 627-670	3.9	63
116	Comparative petrology, geochemistry, and petrogenesis of evolved, low-Ti lunar mare basalt meteorites from the LaPaz Icefield, Antarctica. <i>Geochimica Et Cosmochimica Acta</i> , <b>2006</b> , 70, 1581-1600	5.5	63
115	The helium flux from the continents and ubiquity of low- $^3\text{He}/^4\text{He}$ recycled crust and lithosphere. <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 153, 116-133	5.5	62
114	Early formation of evolved asteroidal crust. <i>Nature</i> , <b>2009</b> , 457, 179-82	50.4	62
113	Origin of $^3\text{He}/^4\text{He}$ ratios in HIMU-type basalts constrained from Canary Island lavas. <i>Earth and Planetary Science Letters</i> , <b>2011</b> , 305, 226-234	5.3	57
112	Volatile cycling of $\text{H}_2\text{O}$ , $\text{CO}_2$ , F, and Cl in the HIMU mantle: A new window provided by melt inclusions from oceanic hot spot lavas at Mangaia, Cook Islands. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 4445-4467	3.6	55
111	Rhenium-Osmium Isotope and Platinum-Group Element Constraints on the Origin and Evolution of the 1{middle dot}27 Ga Muskox Layered Intrusion. <i>Journal of Petrology</i> , <b>2008</b> , 49, 1255-1295	3.9	52
110	Oxygen and iron isotope constraints on near-surface fractionation effects and the composition of lunar mare basalt source regions. <i>Geochimica Et Cosmochimica Acta</i> , <b>2010</b> , 74, 6249-6262	5.5	51
109	Volatile element loss during planetary magma ocean phases. <i>Icarus</i> , <b>2018</b> , 300, 249-260	3.8	50
108	Evolved mare basalt magmatism, high Mg/Fe feldspathic crust, chondritic impactors, and the petrogenesis of Antarctic lunar breccia meteorites Meteorite Hills 01210 and Pecora Escarpment 02007. <i>Geochimica Et Cosmochimica Acta</i> , <b>2006</b> , 70, 5957-5989	5.5	49

107	Helium isotope variations between RUnion Island and the Central Indian Ridge (17°21'S): New evidence for ridge-hot spot interaction. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		45
106	Use of Hydrofluoric Acid Desilicification in the Determination of Highly Siderophile Element Abundances and Re-Pt-Os Isotope Systematics in Mafic-Ultramafic Rocks. <i>Geostandards and Geoanalytical Research</i> , <b>2016</b> , 40, 49-65	3.6	42
105	Halogens in chondritic meteorites and terrestrial accretion. <i>Nature</i> , <b>2017</b> , 551, 614-618	50.4	42
104	Rhenium-beryllium isotope and highly-siderophile-element abundance systematics of angrite meteorites. <i>Earth and Planetary Science Letters</i> , <b>2012</b> , 353-354, 208-218	5.3	42
103	Petrogenesis of lunar mare basalt meteorite Miller Range 05035. <i>Meteoritics and Planetary Science</i> , <b>2009</b> , 44, 261-284	2.8	40
102	Absence of a high time-integrated <sup>3</sup> He/(U+Th) source in the mantle beneath continents. <i>Geology</i> , <b>2005</b> , 33, 733	5	39
101	Highly Siderophile Element and Os Isotope Systematics of Volcanic Rocks at Divergent and Convergent Plate Boundaries and in Intraplate Settings. <i>Reviews in Mineralogy and Geochemistry</i> , <b>2016</b> , 81, 651-724	7.1	38
100	Evidence for heterogeneous enriched shergottite mantle sources in Mars from olivine-hosted melt inclusions in Larkman Nunatak 06319. <i>Geochimica Et Cosmochimica Acta</i> , <b>2011</b> , 75, 6803-6820	5.5	38
99	Rhenium-beryllium isotopes and platinum-group elements in the Rum Layered Suite, Scotland: Implications for Cr-spinel seam formation and the composition of the Iceland mantle anomaly. <i>Earth and Planetary Science Letters</i> , <b>2009</b> , 286, 41-51	5.3	38
98	Testing the chondrule-rich accretion model for planetary embryos using calcium isotopes. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 469, 75-83	5.3	36
97	Geochemistry of intermediate olivine-phyric shergottite Northwest Africa 6234, with similarities to basaltic shergottite Northwest Africa 480 and olivine-phyric shergottite Northwest Africa 2990. <i>Meteoritics and Planetary Science</i> , <b>2012</b> , 47, 1256-1273	2.8	35
96	Hadean silicate differentiation preserved by anomalous Nd/Nd ratios in the RUnion hotspot source. <i>Nature</i> , <b>2018</b> , 555, 89-93	50.4	34
95	1.34 billion-year-old magmatism on Mars evaluated from the co-genetic nakhlite and chassignite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , <b>2018</b> , 238, 292-315	5.5	33
94	Late-stage magmatic outgassing from a volatile-depleted Moon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, 9547-9551	11.5	33
93	Evaporative fractionation of zinc during the first nuclear detonation. <i>Science Advances</i> , <b>2017</b> , 3, e1602668	14.3	29
92	Generations of Melt Extraction, Melt-Rock Interaction and High-Temperature Metasomatism Preserved in Peridotites of the ~497 Ma Leka Ophiolite Complex, Norway. <i>Journal of Petrology</i> , <b>2015</b> , 56, 1797-1828	3.9	29
91	Potassium isotopic compositions of howardite-eucrite-diogenite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 266, 611-632	5.5	29
90	On the structure of mare basalt lava flows from textural analysis of the LaPaz Icefield and Northwest Africa 032 lunar meteorites. <i>Meteoritics and Planetary Science</i> , <b>2007</b> , 42, 3-17	2.8	29

89	Multiple early-formed water reservoirs in the interior of Mars. <i>Nature Geoscience</i> , <b>2020</b> , 13, 260-264	18.3	28
88	Oxygen isotope systematics of South African olivine melilitites and implications for HIMU mantle reservoirs. <i>Lithos</i> , <b>2014</b> , 202-203, 76-84	2.9	28
87	Calcium isotopic evidence for the mantle sources of carbonatites. <i>Science Advances</i> , <b>2020</b> , 6, eaba3269	14.3	27
86	Subducted oceanic crust as diamond hosts revealed by garnets of mantle xenoliths from Nyurbinskaya, Siberia. <i>Lithos</i> , <b>2010</b> , 120, 368-378	2.9	26
85	A laser-ablation ICP-MS study of Apollo 15 low-titanium olivine-normative and quartz-normative mare basalts. <i>Geochimica Et Cosmochimica Acta</i> , <b>2008</b> , 72, 2556-2572	5.5	25
84	Isotopic fractionation of zirconium during magmatic differentiation and the stable isotope composition of the silicate Earth. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 250, 311-323	5.5	25
83	Chondritic late accretion to Mars and the nature of shergottite reservoirs. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 494, 99-108	5.3	24
82	Potassium isotopic composition of the Moon. <i>Geochimica Et Cosmochimica Acta</i> , <b>2020</b> , 280, 263-280	5.5	23
81	Highly siderophile element behaviour during flood basalt genesis and evidence for melts from intrusive chromitite formation in the Mackenzie large igneous province. <i>Lithos</i> , <b>2013</b> , 182-183, 242-258	2.9	21
80	Helium isotopic evidence for modification of the cratonic lithosphere during the Permo-Triassic Siberian flood basalt event. <i>Lithos</i> , <b>2015</b> , 216-217, 73-80	2.9	21
79	Martian magmatism from plume metasomatized mantle. <i>Nature Communications</i> , <b>2018</b> , 9, 4799	17.4	21
78	Melt-modified lithosphere beneath Ross Island and its role in the tectono-magmatic evolution of the West Antarctic Rift System. <i>Chemical Geology</i> , <b>2019</b> , 518, 45-54	4.2	20
77	Silicon isotopes reveal recycled altered oceanic crust in the mantle sources of Ocean Island Basalts. <i>Geochimica Et Cosmochimica Acta</i> , <b>2016</b> , 189, 282-295	5.5	20
76	What Martian Meteorites Reveal About the Interior and Surface of Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2020</b> , 125, e2020JE006523	4.1	20
75	Early mantle heterogeneities in the RŪnion hotspot source inferred from highly siderophile elements in cumulate xenoliths. <i>Earth and Planetary Science Letters</i> , <b>2016</b> , 448, 150-160	5.3	20
74	Characterization of weathering and heterogeneous mineral phase distribution in brachinite Northwest Africa 4872. <i>Meteoritics and Planetary Science</i> , <b>2014</b> , 49, 1141-1156	2.8	19
73	Lithium isotope constraints on crustmantle interactions and surface processes on Mars. <i>Geochimica Et Cosmochimica Acta</i> , <b>2015</b> , 162, 46-65	5.5	18
72	Early metal-silicate differentiation during planetesimal formation revealed by acapulcoite and lodranite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 216, 115-140	5.5	18

71	Helium isotope evidence for a deep-seated mantle plume involved in South Atlantic breakup. <i>Geology</i> , <b>2017</b> , 45, 827-830	5	17
70	Differentiation processes in FeO-rich asteroids revealed by the achondrite Lewis Cliff 88763. <i>Meteoritics and Planetary Science</i> , <b>2015</b> , 50, 1750-1766	2.8	17
69	Mare basalt meteorites, magnesian-suite rocks and KREEP reveal loss of zinc during and after lunar formation. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 531, 115998	5.3	16
68	Length-scales of chemical and isotopic heterogeneity in the mantle section of the Shetland Ophiolite Complex, Scotland. <i>Earth and Planetary Science Letters</i> , <b>2018</b> , 488, 144-154	5.3	15
67	Iron isotope fractionation during sulfide-rich felsic partial melting in early planetesimals. <i>Earth and Planetary Science Letters</i> , <b>2014</b> , 392, 124-132	5.3	15
66	The stable strontium isotopic composition of ocean island basalts, mid-ocean ridge basalts, and komatiites. <i>Chemical Geology</i> , <b>2018</b> , 483, 595-602	4.2	14
65	A carbon-rich region in Miller Range 091004 and implications for ureilite petrogenesis. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 198, 379-395	5.5	13
64	Assessment of relative Ti, Ta, and Nb (TITAN) enrichments in ocean island basalts. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2014</b> , 15, 4424-4444	3.6	13
63	Petrology and geochemistry of Yamato 984028: a cumulate lherzolitic shergottite with affinities to Y 000027, Y 000047, and Y 000097. <i>Polar Science</i> , <b>2011</b> , 4, 497-514	2.3	13
62	A sulfide perspective on iron isotope fractionation during ocean island basalt petrogenesis. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 245, 59-78	5.5	13
61	Geochemical constraints on residual metal and sulfide in the sources of lunar mare basalts. <i>American Mineralogist</i> , <b>2018</b> , 103, 1734-1740	2.9	13
60	The potential for metal contamination during Apollo lunar sample curation. <i>Meteoritics and Planetary Science</i> , <b>2018</b> , 53, 1283-1291	2.8	12
59	Chondritic mercury isotopic composition of Earth and evidence for evaporative equilibrium degassing during the formation of eucrites. <i>Earth and Planetary Science Letters</i> , <b>2020</b> , 551, 116544	5.3	12
58	Petrogenesis of basaltic shergottite Northwest Africa 8657: Implications for fO <sub>2</sub> correlations and element redistribution during shock melting in shergottites. <i>Meteoritics and Planetary Science</i> , <b>2018</b> , 53, 249-267	2.8	12
57	Precious metal enrichment at low-redox in terrestrial native Fe-bearing basalts investigated using laser-ablation ICP-MS. <i>Geochimica Et Cosmochimica Acta</i> , <b>2017</b> , 203, 343-363	5.5	11
56	Petrology of the enriched poikilitic shergottite Northwest Africa 10169: Insight into the martian interior. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 266, 435-462	5.5	11
55	Sulfide mantle source heterogeneity recorded in basaltic lavas from the Azores. <i>Geochimica Et Cosmochimica Acta</i> , <b>2020</b> , 268, 422-445	5.5	11
54	Potassium isotope fractionation during high-temperature evaporation determined from the Trinity nuclear test. <i>Chemical Geology</i> , <b>2019</b> , 522, 84-92	4.2	10

53	Planet formation processes revealed by meteorites. <i>Geology Today</i> , <b>2015</b> , 31, 12-20	0.4	10
52	Evidence for high-temperature fractionation of lithium isotopes during differentiation of the Moon. <i>Meteoritics and Planetary Science</i> , <b>2016</b> , 51, 1046-1062	2.8	10
51	Atmospheric outgassing and native-iron formation during carbonaceous sediment-Basalt melt interactions. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 460, 201-212	5.3	9
50	Ferrous oxide-rich asteroid achondrites. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 266, 544-567	5.5	9
49	Evidence against an ancient non-chondritic mantle source for North Atlantic Igneous Province lavas. <i>Chemical Geology</i> , <b>2016</b> , 440, 91-100	4.2	9
48	Volatile distributions in and on the Moon revealed by Cu and Fe isotopes in the Rusty Rock 6095. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 266, 131-143	5.5	9
47	Helium-oxygen-smium isotopic and elemental constraints on the mantle sources of the Deccan Traps. <i>Earth and Planetary Science Letters</i> , <b>2017</b> , 478, 245-257	5.3	8
46	Response of Sea Urchin Fitness Traits to Environmental Gradients Across the Southern California Oxygen Minimum Zone. <i>Frontiers in Marine Science</i> , <b>2018</b> , 5,	4.5	8
45	Pacific Lithosphere Evolution Inferred from Aitutaki Mantle Xenoliths. <i>Journal of Petrology</i> , <b>2019</b> , 60, 1753-1772	3.9	8
44	Assessment of ocean acidification and warming on the growth, calcification, and biophotonics of a California grass shrimp. <i>ICES Journal of Marine Science</i> , <b>2017</b> , 74, 1150-1158	2.7	8
43	Oxygen isotope heterogeneity of the mantle beneath the Canary Islands: a discussion of the paper of Gurenko et al.. <i>Contributions To Mineralogy and Petrology</i> , <b>2012</b> , 164, 177-183	3.5	8
42	The trace element and Sr-Nd-Pb isotope geochemistry of Juan Fernandez lavas reveal variable contributions from a high- <sup>3</sup> He/ <sup>4</sup> He mantle plume. <i>Chemical Geology</i> , <b>2018</b> , 476, 280-291	4.2	8
41	Contrasting Old and Young Volcanism from Aitutaki, Cook Islands: Implications for the Origins of the Cook-Austral Volcanic Chain. <i>Journal of Petrology</i> , <b>2020</b> , 61,	3.9	7
40	Identification of mantle peridotite as a possible Iapetan ophiolite sliver in south Shetland, Scottish Caledonides. <i>Journal of the Geological Society</i> , <b>2017</b> , 174, 88-92	2.7	7
39	Ancient high Pt/Os crustal contaminants can explain radiogenic <sup>186</sup> Os in some intraplate magmas. <i>Earth and Planetary Science Letters</i> , <b>2019</b> , 519, 101-108	5.3	6
38	Mantle source to near-surface emplacement of enriched and intermediate poikilitic shergottites in Mars. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 266, 463-496	5.5	6
37	Evidence for Transient Atmospheres during Eruptive Outgassing on the Moon. <i>Planetary Science Journal</i> , <b>2020</b> , 1, 67	2.9	6
36	Examining the compositions of impactors striking the Moon using Apollo impact melt coats and anorthositic regolith breccia meteorites. <i>Geochimica Et Cosmochimica Acta</i> , <b>2020</b> , 274, 192-210	5.5	6

35	Metal grains in lunar rocks as indicators of igneous and impact processes. <i>Meteoritics and Planetary Science</i> , <b>2020</b> , 55,	2.8	5
34	Uniform oxygen fugacity of shergottite mantle sources and an oxidized martian lithosphere. <i>Earth and Planetary Science Letters</i> , <b>2021</b> , 564, 116876	5.3	5
33	Combined Lithophile-Siderophile Isotopic Constraints on Hadean Processes Preserved in Ocean Island Basalt Sources. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2021</b> , 22, e2020GC009479	3.6	5
32	The Mercury Isotopic Composition of Earth's Mantle and the Use of Mass Independently Fractionated Hg to Test for Recycled Crust. <i>Geophysical Research Letters</i> , <b>2021</b> , 48, e2021GL094301	4.9	5
31	Forearc origin for Coast Range Ophiolites inferred from osmium isotopes and highly siderophile elements. <i>Chemical Geology</i> , <b>2020</b> , 550, 119723	4.2	4
30	Heterogeneous kimberlite metasomatism revealed from a combined He-Os isotope study of Siberian megacrystalline dunite xenoliths. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 266, 220-236	5.5	4
29	Day et al. reply. <i>Nature</i> , <b>2009</b> , 459, E2-E2	50.4	4
28	Effective global mixing of the highly siderophile elements into Earth's mantle inferred from oceanic abyssal peridotites. <i>Geochimica Et Cosmochimica Acta</i> , <b>2021</b> ,	5.5	4
27	Reconciling metal-silicate partitioning and late accretion in the Earth. <i>Nature Communications</i> , <b>2021</b> , 12, 2913	17.4	4
26	Heterogeneous mantle-derived helium isotopes in the Canary Islands and other ocean islands. <i>Geology</i> , <b>2021</b> , 49, 120-124	5	4
25	Melt Percolation, Melt-Rock Reaction and Oxygen Fugacity in Supra-Subduction Zone Mantle and Lower Crust from the Leka Ophiolite Complex, Norway. <i>Journal of Petrology</i> ,	3.9	4
24	Potassium isotope composition of Mars reveals a mechanism of planetary volatile retention. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2021</b> , 118,	11.5	4
23	Osmium isotope evidence for a heterogeneous <sup>3</sup> He/ <sup>4</sup> He mantle plume beneath the Juan Fernandez Islands. <i>Geochimica Et Cosmochimica Acta</i> , <b>2019</b> , 261, 1-19	5.5	3
22	Origin of iron production in the Eastern Mediterranean: Osmium isotope and highly siderophile element evidence from Iron Age Jordan. <i>Journal of Archaeological Science</i> , <b>2020</b> , 122, 105227	2.9	3
21	Highly siderophile elements in shergottite sulfides and the sulfur content of the martian mantle. <i>Geochimica Et Cosmochimica Acta</i> , <b>2021</b> , 293, 379-398	5.5	3
20	Meter-Scale Chemical and Isotopic Heterogeneities in the Oceanic Mantle, Leka Ophiolite Complex, Norway. <i>Journal of Petrology</i> ,	3.9	3
19	Platinum-group element remobilization and concentration in the Cliff chromitites of the Shetland Ophiolite Complex, Scotland. <i>Mineralogical Magazine</i> , <b>2018</b> , 82, 471-490	1.7	2
18	Microtektites and glassy cosmic spherules from new sites in the Transantarctic Mountains, Antarctica. <i>Meteoritics and Planetary Science</i> , <b>2021</b> , 56, 829	2.8	2



17	Trace element variations generated by magmatic and post-crystallization processes in eucrite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , <b>2021</b> , 301, 211-229	5.5	2
16	Qarabawi Camel Charm: Tracing the meteoritic origins of a cultural artifact. <i>Meteoritics and Planetary Science</i> , <b>2020</b> , 55, 1000-1010	2.8	1
15	Petrogenesis, alteration, and shock history of intermediate shergottite Northwest Africa 7042: Evidence for hydrous magmatism on Mars?. <i>Geochimica Et Cosmochimica Acta</i> , <b>2020</b> , 283, 103-123	5.5	1
14	Earth science: Extraordinary world. <i>Nature</i> , <b>2016</b> , 537, 310-1	50.4	1
13	Mantle sources of ocean islands basalts revealed from noble gas isotope systematics. <i>Chemical Geology</i> , <b>2022</b> , 587, 120626	4.2	1
12	Reducing epistemic and model uncertainty in ionic inter-diffusion chronology: A 3D observation and dynamic modeling approach using olivine from Piton de la Fournaise, La Réunion. <i>American Mineralogist</i> , <b>2021</b> , 106, 481-494	2.9	1
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10	Siderophile Elements: Systematics and Significance <b>2021</b> , 52-66		1
9	High-precision Pb and Hf isotope and highly siderophile element abundance systematics of high-MgO Icelandic lavas. <i>Chemical Geology</i> , <b>2021</b> , 582, 120436	4.2	1
8	Sintering as a key process in the textural evolution of chromitite seams in layered mafic-ultramafic intrusions. <i>Canadian Mineralogist</i> , <b>2021</b> , 59, 1661-1692	0.7	1
7	Oxidized mantle sources of HIMU- and EM-type Ocean Island Basalts. <i>Chemical Geology</i> , <b>2022</b> , 602, 120901	4.1	1
6	Temporally limited late accretion after core formation in the Moon. <i>Meteoritics and Planetary Science</i> , <b>2021</b> , 56, 683	2.8	0
5	Paleointensity and Rock Magnetism of Martian Nakhilite Meteorite Miller Range 03346: Evidence for Intense Small-Scale Crustal Magnetization on Mars. <i>Journal of Geophysical Research E: Planets</i> , <b>2021</b> , 126, e2021JE006856	4.1	0
4	Rare Earth Element and Incompatible Trace Element Abundances in Emeralds Reveal Their Formation Environments. <i>Minerals (Basel, Switzerland)</i> , <b>2021</b> , 11, 513	2.4	0
3	Temporally variable crustal contributions to primitive mantle-derived Columbia River Basalt Group magmas. <i>Chemical Geology</i> , <b>2021</b> , 572, 120197	4.2	0
2	Olivine-rich achondrites from Vesta and the missing mantle problem. <i>Nature Communications</i> , <b>2021</b> , 12, 5443	17.4	0
1	Detailed petrogenesis of the unsampled Oceanus Procellarum: The case of the Chang'e-5 mare basalts. <i>Icarus</i> , <b>2022</b> , 115082	3.8	0