Lars E Borg

List of Publications by Year
in descending order

35 papers	3,132 citations	218677 26 h-index	377865 34 g-index
35 all docs	35 docs citations	35 times ranked	1896 citing authors

#	Article	IF	Citations
1	Oxygen fugacity and geochemical variations in the martian basalts: implications for martian basalt petrogenesis and the oxidation state of the upper mantle of Mars. Geochimica Et Cosmochimica Acta, 2002, 66, 2025-2036.	3.9	257
2	Constraints on Martian differentiation processes from Rbî—¸Sr and Smî—¸Nd isotopic analyses of the basaltic shergottite QUE 94201. Geochimica Et Cosmochimica Acta, 1997, 61, 4915-4931.	3.9	239
3	Chronological evidence that the Moon is either young or did not have a global magma ocean. Nature, 2011, 477, 70-72.	27.8	202
4	A petrogenetic model for the origin and compositional variation of the martian basaltic meteorites. Meteoritics and Planetary Science, 2003, 38, 1713-1731.	1.6	195
5	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.	1.6	179
6	Natural variations in uranium isotope ratios of uranium ore concentrates: Understanding the 238U/235U fractionation mechanism. Earth and Planetary Science Letters, 2010, 291, 228-233.	4.4	165
7	The age of Dar al Gani 476 and the differentiation history of the martian meteorites inferred from their radiogenic isotopic systematics. Geochimica Et Cosmochimica Acta, 2003, 67, 3519-3536.	3.9	159
8	The age of the martian meteorite Northwest Africa 1195 and the differentiation history of the shergottites. Geochimica Et Cosmochimica Acta, 2008, 72, 1696-1710.	3.9	125
9	A review of lunar chronology revealing a preponderance of 4.34â€"4.37ÂGa ages. Meteoritics and Planetary Science, 2015, 50, 715-732.	1.6	122
10	The great isotopic dichotomy of the early Solar System. Nature Astronomy, 2020, 4, 32-40.	10.1	117
11	A review of meteorite evidence for the timing of magmatism and of surface or near-surface liquid water on Mars. Journal of Geophysical Research, 2005, 110, .	3.3	110
12	Origin of the lunar highlands Mg-suite: An integrated petrology, geochemistry, chronology, and remote sensing perspective. American Mineralogist, 2015, 100, 294-325.	1.9	110
13	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.	3.9	107
14	Constraints on the petrogenesis of Martian meteorites from the Rb-Sr and Sm-Nd isotopic systematics of the lherzolitic shergottites ALH77005 and LEW88516. Geochimica Et Cosmochimica Acta, 2002, 66, 2037-2053.	3.9	103
15	Constraints on the U-Pb isotopic systematics of Mars inferred from a combined U-Pb, Rb-Sr, and Sm-Nd isotopic study of the Martian meteorite Zagami. Geochimica Et Cosmochimica Acta, 2005, 69, 5819-5830.	3.9	98
16	A young solidification age for the lunar magma ocean. Geochimica Et Cosmochimica Acta, 2014, 140, 227-240.	3.9	79
17	Mechanisms for incompatible-element enrichment on the Moon deduced from the lunar basaltic meteorite Northwest Africa 032. Geochimica Et Cosmochimica Acta, 2009, 73, 3963-3980.	3.9	78
18	Rb-Sr, Sm-Nd and Lu-Hf isotope systematics of the lunar Mg-suite: the age of the lunar crust and its relation to the time of Moon formation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130246.	3.4	78

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19	Samariumâ€“neodymium chronology and rubidiumâ€“strontium systematics of an Allende calciumâ€“aluminum-rich inclusion with implications for 146Sm half-life. Earth and Planetary Science Letters, 2014, 405, 15-24.	4.4	77
20	4. Thermal and Magmatic Evolution of the Moon. , 2006, , 365-518.		70
21	The early differentiation of Mars inferred from Hfâ€“W chronometry. Earth and Planetary Science Letters, 2017, 474, 345-354.	4.4	69
22	Accretion timescale and impact history of Mars deduced from the isotopic systematics of martian meteorites. Geochimica Et Cosmochimica Acta, 2016, 175, 150-167.	3.9	68
23	The Northwest Africa 8159 martian meteorite: Expanding the martian sample suite to the early Amazonian. Geochimica Et Cosmochimica Acta, 2017, 218, 1-26.	3.9	58
24	Isotopic evidence for a young lunar magma ocean. Earth and Planetary Science Letters, 2019, 523, 115706.	4.4	40
25	Smâ€“Nd systematics of lunar ferroan anorthositic suite rocks: Constraints on lunar crust formation. Geochimica Et Cosmochimica Acta, 2015, 148, 203-218.	3.9	36
26	Chronologic implications for slow cooling of troctolite 76535 and temporal relationships between the Mg-suite and the ferroan anorthosite suite. Geochimica Et Cosmochimica Acta, 2017, 201, 377-391.	3.9	36
27	Experimental determination of Zn isotope fractionation during evaporative loss at extreme temperatures. Geochimica Et Cosmochimica Acta, 2019, 259, 391-411.	3.9	34
28	Isotopic coherence of refractory inclusions from CV and CK meteorites: Evidence from multiple isotope systems. Geochimica Et Cosmochimica Acta, 2018, 228, 62-80.	3.9	24
29	The formation and evolution of the Moonâ€™s crust inferred from the Sm-Nd isotopic systematics of highlands rocks. Geochimica Et Cosmochimica Acta, 2020, 290, 312-332.	3.9	21
30	Onset of magma ocean solidification on Mars inferred from Mn-Cr chronometry. Earth and Planetary Science Letters, 2020, 542, 116315.	4.4	19
31	The timing of lunar solidification and mantle overturn recorded in ferroan anorthosite 62237. Earth and Planetary Science Letters, 2020, 538, 116219.	4.4	18
32	Constraining the behavior of gallium isotopes during evaporation at extreme temperatures. Geochimica Et Cosmochimica Acta, 2020, 286, 54-71.	3.9	13
33	Samarium isotope compositions of uranium ore concentrates: A novel nuclear forensic signature. Talanta, 2021, 221, 121431.	5.5	9
34	The gallium isotopic composition of the Moon. Earth and Planetary Science Letters, 2022, 578, 117318.	4.4	9
35	The origin of volatile elements in the Earthâ€“Moon system. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	8