

Lydia Hallis

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

459
citations

933447

10
h-index

888059

17
g-index

17
all docs

17
docs citations

17
times ranked

694
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for primordial water in Earth's deep mantle. <i>Science</i> , 2015, 350, 795-797.	12.6	159
2	Comparisons of the four Miller Range nakhlites, MIL 03346, 090030, 090032 and 090136: Textural and compositional observations of primary and secondary mineral assemblages. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1787-1803.	1.6	52
3	D/H ratios of the inner Solar System. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20150390.	3.4	42
4	Aqueous alteration of the Martian meteorite Northwest Africa 817: Probing fluid-rock interaction at the nakhlite launch site. <i>Meteoritics and Planetary Science</i> , 2018, 53, 2395-2412.	1.6	33
5	Organic synthesis associated with serpentinization and carbonation on early Mars. <i>Science</i> , 2022, 375, 172-177.	12.6	32
6	Boron Enrichment in Martian Clay. <i>PLoS ONE</i> , 2013, 8, e64624.	2.5	27
7	Solar wind contributions to Earth's oceans. <i>Nature Astronomy</i> , 2021, 5, 1275-1285.	10.1	22
8	Element abundances, patterns, and mobility in Nakhlite Miller Range 03346 and implications for aqueous alteration. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 112, 208-225.	3.9	17
9	Alteration assemblages in the Miller Range and Elephant Moraine regions of Antarctica: Comparisons between terrestrial igneous rocks and Martian meteorites. <i>Meteoritics and Planetary Science</i> , 2013, 48, 165-179.	1.6	15
10	Boom boom pow: Shock-facilitated aqueous alteration and evidence for two shock events in the Martian nakhlite meteorites. <i>Science Advances</i> , 2019, 5, eaaw5549.	10.3	15
11	Understanding the emplacement of Martian volcanic rocks using petrofabrics of the nakhlite meteorites. <i>Earth and Planetary Science Letters</i> , 2019, 520, 220-230.	4.4	11
12	A TEM and EELS study of carbon in a melt fragment from the Gardnos impact structure. <i>Meteoritics and Planetary Science</i> , 2019, 54, 2698-2709.	1.6	9
13	The origin of alteration "orange" in Dhofar 019: Implications for the age and aqueous history of the shergottites. <i>Meteoritics and Planetary Science</i> , 2017, 52, 2695-2706.	1.6	7
14	Exploring Mars at the nanoscale: Applications of transmission electron microscopy and atom probe tomography in planetary exploration. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020, 891, 012008.	0.6	5
15	Volatile abundances and hydrogen isotope ratios of apatite in Martian basaltic breccia NWA 11522 "A" paired stone of NWA 7034. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2587-2598.	1.6	5
16	Convective activity in a Martian magma chamber recorded by zoning in Tissint olivine. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1057-1072.	1.6	4
17	The pre-atmospheric hydrogen inventory of CM carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 309, 31-44.	3.9	4