

# Jessica J Barnes

## List of Publications by Year in descending order

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Version: 2024-02-01

14  
papers

903  
citations

759233

12  
h-index

1058476

14  
g-index

14  
all docs

14  
docs citations

14  
times ranked

682  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magmatic volatiles (H, C, N, F, S, Cl) in the lunar mantle, crust, and regolith: Abundances, distributions, processes, and reservoirs. <i>American Mineralogist</i> , 2015, 100, 1668-1707.	1.9	160
2	The abundance, distribution, and isotopic composition of Hydrogen in the Moon as revealed by basaltic lunar samples: Implications for the volatile inventory of the Moon. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 122, 58-74.	3.9	127
3	The origin of water in the primitive Moon as revealed by the lunar highlands samples. <i>Earth and Planetary Science Letters</i> , 2014, 390, 244-252.	4.4	118
4	Accurate and precise measurements of the D/H ratio and hydroxyl content in lunar apatites using NanoSIMS. <i>Chemical Geology</i> , 2013, 337-338, 48-55.	3.3	90
5	Early degassing of lunar urKREEP by crust-breaching impact(s). <i>Earth and Planetary Science Letters</i> , 2016, 447, 84-94.	4.4	78
6	Lunar basalt chronology, mantle differentiation and implications for determining the age of the Moon. <i>Earth and Planetary Science Letters</i> , 2016, 451, 149-158.	4.4	60
7	Origin and abundances of H <sub>2</sub> O in the terrestrial planets, Moon, and asteroids. <i>Earth and Planetary Science Letters</i> , 2019, 526, 115771.	4.4	59
8	Multiple early-formed water reservoirs in the interior of Mars. <i>Nature Geoscience</i> , 2020, 13, 260-264.	12.9	43
9	Multiple reservoirs of volatiles in the Moon revealed by the isotopic composition of chlorine in lunar basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 266, 144-162.	3.9	41
10	Chlorine isotopic compositions of apatite in Apollo 14 rocks: Evidence for widespread vapor-phase metasomatism on the lunar nearside 4.4 billion years ago. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 230, 46-59.	3.9	39
11	Understanding the origin and evolution of water in the Moon through lunar sample studies. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130254.	3.4	35
12	Early loss, fractionation, and redistribution of chlorine in the Moon as revealed by the low-Ti lunar mare basalt suite. <i>Earth and Planetary Science Letters</i> , 2018, 500, 205-214.	4.4	34
13	The abundances of F, Cl, and H <sub>2</sub> O in eucrites: Implications for the origin of volatile depletion in the asteroid 4 Vesta. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 314, 270-293.	3.9	11
14	The chlorine-isotopic composition of lunar KREEP from magnesian-suite troctolite 76535. <i>American Mineralogist</i> , 2020, 105, 1270-1274.	1.9	8