

# Bruce Fegley Jr

## List of Publications by Year in descending order

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53  
papers

4,212  
citations

136950

32  
h-index

189892

50  
g-index

54  
all docs

54  
docs citations

54  
times ranked

2933  
citing authors

#	ARTICLE	IF	CITATIONS
1	High temperature evaporation and isotopic fractionation of K and Cu. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 316, 1-20.	3.9	7
2	Injection of meteoric phosphorus into planetary atmospheres. <i>Planetary and Space Science</i> , 2020, 187, 104926.	1.7	17
3	Loss and Fractionation of Noble Gas Isotopes and Moderately Volatile Elements from Planetary Embryos and Early Venus, Earth and Mars. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	34
4	Volatile element chemistry during accretion of the earth. <i>Chemie Der Erde</i> , 2020, 80, 125594.	2.0	20
5	Solubility of CO <sub>2</sub> in Sodium Silicate Melts. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 2113-2120.	2.7	1
6	Potassium isotopic compositions of howardite-eucrite-diogenite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 266, 611-632.	3.9	45
7	Tin isotopes indicative of liquid-vapour equilibration and separation in the Moon-forming disk. <i>Nature Geoscience</i> , 2019, 12, 707-711.	12.9	39
8	Implications of K, Cu and Zn isotopes for the formation of tektites. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 170-187.	3.9	27
9	Thermodynamics of Element Volatility and its Application to Planetary Processes. <i>Reviews in Mineralogy and Geochemistry</i> , 2018, 84, 393-459.	4.8	44
10	Redox States of Initial Atmospheres Outgassed on Rocky Planets and Planetesimals. <i>Astrophysical Journal</i> , 2017, 843, 120.	4.5	51
11	SOLUBILITY OF ROCK IN STEAM ATMOSPHERES OF PLANETS. <i>Astrophysical Journal</i> , 2016, 824, 103.	4.5	42
12	Lunar volatile depletion due to incomplete accretion within an impact-generated disk. <i>Nature Geoscience</i> , 2015, 8, 918-921.	12.9	84
13	THE ATMOSPHERES OF EARTHLIKE PLANETS AFTER GIANT IMPACT EVENTS. <i>Astrophysical Journal</i> , 2014, 784, 27.	4.5	132
14	CHEMISTRY OF IMPACT-GENERATED SILICATE MELT-VAPOR DEBRIS DISKS. <i>Astrophysical Journal Letters</i> , 2013, 767, L12.	8.3	96
15	VAPORIZATION OF THE EARTH: APPLICATION TO EXOPLANET ATMOSPHERES. <i>Astrophysical Journal</i> , 2012, 755, 41.	4.5	121
16	ATMOSPHERIC CHEMISTRY OF VENUS-LIKE EXOPLANETS. <i>Astrophysical Journal</i> , 2011, 729, 6.	4.5	50
17	ATMOSPHERIC CHEMISTRY IN GIANT PLANETS, BROWN DWARFS, AND LOW-MASS DWARF STARS. III. IRON, MAGNESIUM, AND SILICON. <i>Astrophysical Journal</i> , 2010, 716, 1060-1075.	4.5	178
18	Chemistry of atmospheres formed during accretion of the Earth and other terrestrial planets. <i>Icarus</i> , 2010, 208, 438-448.	2.5	155

#	ARTICLE	IF	CITATIONS
19	Earth's Earliest Atmospheres. Cold Spring Harbor Perspectives in Biology, 2010, 2, a004895-a004895.	5.5	216
20	Cosmochemistry. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 347-377.	0.3	7
21	CHEMISTRY OF SILICATE ATMOSPHERES OF EVAPORATING SUPER-EARTHS. Astrophysical Journal, 2009, 703, L113-L117.	4.5	166
22	Chemistry and Composition of Planetary Atmospheres. ACS Symposium Series, 2008, , 187-207.	0.5	0
23	Outgassing of ordinary chondritic material and some of its implications for the chemistry of asteroids, planets, and satellites. Icarus, 2007, 186, 462-483.	2.5	115
24	A thermodynamic model of high temperature lava vaporization on Io. Icarus, 2004, 169, 216-241.	2.5	122
25	Application of an equilibrium vaporization model to the ablation of chondritic and achondritic meteoroids. Earth, Moon and Planets, 2004, 95, 413-423.	0.6	17
26	Heavy metal frost on Venus. Icarus, 2004, 168, 215-219.	2.5	57
27	Chemistry of Sodium, Potassium, and Chlorine in Volcanic Gases on Io. Icarus, 2000, 148, 193-210.	2.5	65
28	Kinetics of gas-Grain Reactions in the Solar Nebula. Space Science Reviews, 2000, 92, 177-200.	8.1	100
29	The Solar System's Earliest Chemistry: Systematics of Refractory Inclusions. International Geology Review, 2000, 42, 865-894.	2.1	62
30	Kinetics of Gas-Grain Reactions in the Solar Nebula. Space Sciences Series of ISSI, 2000, , 177-200.	0.0	16
31	Condensation Chemistry of Circumstellar Grains. Symposium - International Astronomical Union, 1999, 191, 279-290.	0.1	33
32	Volcanic Production of Sulfur Monoxide (SO) on Io. Icarus, 1998, 132, 431-434.	2.5	59
33	Volcanic Origin of Disulfur Monoxide (S <sub>2</sub> O) on Io. Icarus, 1998, 133, 293-297.	2.5	28
34	The sulfur vapor pressure over pyrite on the surface of Venus. Planetary and Space Science, 1998, 46, 683-690.	1.7	15
35	Condensation chemistry of carbon stars. , 1997, , .		45
36	Complementary Trace Element Abundances in Meteoritic S[CLC]i[CLC]C Grains and Carbon Star Atmospheres. Astrophysical Journal, 1997, 484, L71-L74.	4.5	19

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37	The Oxidation State of the Lower Atmosphere and Surface of Venus. <i>Icarus</i> , 1997, 125, 416-439.	2.5	94
38	Constraints on Stellar Grain Formation from Presolar Graphite in the Murchison Meteorite. <i>Astrophysical Journal</i> , 1996, 472, 760-782.	4.5	254
39	Experimental partitioning of Zr, Nb, and Ti between platinum group metals and silicate liquid: implications for the origin of refractory metal nuggets in carbonaceous chondrites. <i>Earth and Planetary Science Letters</i> , 1995, 132, 183-198.	4.4	7
40	Sulfur chemistry in the wake of comet Shoemaker-Levy 9. <i>Geophysical Research Letters</i> , 1995, 22, 1593-1596.	4.0	49
41	Chemical Models of the Deep Atmospheres of Jupiter and Saturn. <i>Icarus</i> , 1994, 110, 117-154.	2.5	256
42	Lanthanide and actinide chemistry at highCO/ ratios in the solar nebula. <i>Earth and Planetary Science Letters</i> , 1993, 117, 125-145.	4.4	86
43	Chemistry of the Solar Nebula. , 1993, , 75-147.		29
44	Thermodynamic models of the chemistry of lunar volcanic gases. <i>Geophysical Research Letters</i> , 1991, 18, 2073-2076.	4.0	28
45	High-temperature condensation of iron-rich olivine in the solar nebula. <i>Earth and Planetary Science Letters</i> , 1990, 101, 180-195.	4.4	138
46	Bolide impacts, acid rain, and biospheric traumas at the Cretaceous-Tertiary boundary. <i>Earth and Planetary Science Letters</i> , 1987, 83, 1-15.	4.4	194
47	A vaporization model for iron/silicate fractionation in the Mercury protoplanet. <i>Earth and Planetary Science Letters</i> , 1987, 82, 207-222.	4.4	207
48	The abundance and relative volatility of refractory trace elements in Allende Ca,Al-rich inclusions: implications for chemical and physical processes in the solar nebula. <i>Earth and Planetary Science Letters</i> , 1986, 79, 217-234.	4.4	81
49	Chemical effects of large impacts on the Earth's primitive atmosphere. <i>Nature</i> , 1986, 319, 305-308.	27.8	150
50	Evidence for oxidizing conditions in the solar nebula from Mo and W depletions in refractory inclusions in carbonaceous chondrites. <i>Earth and Planetary Science Letters</i> , 1985, 72, 311-326.	4.4	193
51	A refractory inclusion in the Kaba CV3 chondrite: some implications for the origin of spinel-rich objects in chondrites. <i>Earth and Planetary Science Letters</i> , 1985, 75, 297-310.	4.4	21
52	The geochemical behavior of refractory noble metals and lithophile trace elements in refractory inclusions in carbonaceous chondrites. <i>Earth and Planetary Science Letters</i> , 1984, 68, 181-197.	4.4	28
53	Volatile element chemistry in the solar nebula: Na, K, F, Cl, Br, and P. <i>Icarus</i> , 1980, 41, 439-455.	2.5	110