

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	Chemical Models of the Deep Atmospheres of Jupiter and Saturn. <i>Icarus</i> , 1994, 110, 117-154.	2.5	256
2	Constraints on Stellar Grain Formation from Presolar Graphite in the Murchison Meteorite. <i>Astrophysical Journal</i> , 1996, 472, 760-782.	4.5	254
3	Earth's Earliest Atmospheres. <i>Cold Spring Harbor Perspectives in Biology</i> , 2010, 2, a004895-a004895.	5.5	216
4	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
5	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
6	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
7	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
8	CHEMISTRY OF SILICATE ATMOSPHERES OF EVAPORATING SUPER-EARTHS. <i>Astrophysical Journal</i> , 2009, 703, L113-L117.	4.5	166
9	Chemistry of atmospheres formed during accretion of the Earth and other terrestrial planets. <i>Icarus</i> , 2010, 208, 438-448.	2.5	155
10	Chemical effects of large impacts on the Earth's primitive atmosphere. <i>Nature</i> , 1986, 319, 305-308.	27.8	150
11	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
12	THE ATMOSPHERES OF EARTHLIKE PLANETS AFTER GIANT IMPACT EVENTS. <i>Astrophysical Journal</i> , 2014, 784, 27.	4.5	132
13	A thermodynamic model of high temperature lava vaporization on Io. <i>Icarus</i> , 2004, 169, 216-241.	2.5	122
14	VAPORIZATION OF THE EARTH: APPLICATION TO EXOPLANET ATMOSPHERES. <i>Astrophysical Journal</i> , 2012, 755, 41.	4.5	121
15	Outgassing of ordinary chondritic material and some of its implications for the chemistry of asteroids, planets, and satellites. <i>Icarus</i> , 2007, 186, 462-483.	2.5	115
16	Volatile element chemistry in the solar nebula: Na, K, F, Cl, Br, and P. <i>Icarus</i> , 1980, 41, 439-455.	2.5	110
17	Kinetics of gas-Grain Reactions in the Solar Nebula. <i>Space Science Reviews</i> , 2000, 92, 177-200.	8.1	100
18	CHEMISTRY OF IMPACT-GENERATED SILICATE MELT-VAPOR DEBRIS DISKS. <i>Astrophysical Journal Letters</i> , 2013, 767, L12.	8.3	96

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19	The Oxidation State of the Lower Atmosphere and Surface of Venus. <i>Icarus</i> , 1997, 125, 416-439.	2.5	94
20	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
21	Lunar volatile depletion due to incomplete accretion within an impact-generated disk. <i>Nature Geoscience</i> , 2015, 8, 918-921.	12.9	84
22	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
23	Chemistry of Sodium, Potassium, and Chlorine in Volcanic Gases on Io. <i>Icarus</i> , 2000, 148, 193-210.	2.5	65
24	The Solar System's Earliest Chemistry: Systematics of Refractory Inclusions. <i>International Geology Review</i> , 2000, 42, 865-894.	2.1	62
25	Volcanic Production of Sulfur Monoxide (SO) on Io. <i>Icarus</i> , 1998, 132, 431-434.	2.5	59
26	Heavy metal frost on Venus. <i>Icarus</i> , 2004, 168, 215-219.	2.5	57
27	Redox States of Initial Atmospheres Outgassed on Rocky Planets and Planetesimals. <i>Astrophysical Journal</i> , 2017, 843, 120.	4.5	51
28	ATMOSPHERIC CHEMISTRY OF VENUS-LIKE EXOPLANETS. <i>Astrophysical Journal</i> , 2011, 729, 6.	4.5	50
29	Sulfur chemistry in the wake of comet Shoemaker-Levy 9. <i>Geophysical Research Letters</i> , 1995, 22, 1593-1596.	4.0	49
30	Condensation chemistry of carbon stars. , 1997, , .		45
31	Potassium isotopic compositions of howardite-eucrite-diogenite meteorites. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 266, 611-632.	3.9	45
32	Thermodynamics of Element Volatility and its Application to Planetary Processes. <i>Reviews in Mineralogy and Geochemistry</i> , 2018, 84, 393-459.	4.8	44
33	SOLUBILITY OF ROCK IN STEAM ATMOSPHERES OF PLANETS. <i>Astrophysical Journal</i> , 2016, 824, 103.	4.5	42
34	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
35	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
36	Condensation Chemistry of Circumstellar Grains. <i>Symposium - International Astronomical Union</i> , 1999, 191, 279-290.	0.1	33

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37	Chemistry of the Solar Nebula. , 1993, , 75-147.		29
38	The geochemical behavior of refractory noble metals and lithophile trace elements in refractory inclusions in carbonaceous chondrites. Earth and Planetary Science Letters, 1984, 68, 181-197.	4.4	28
39	Thermodynamic models of the chemistry of lunar volcanic gases. Geophysical Research Letters, 1991, 18, 2073-2076.	4.0	28
40	Volcanic Origin of Disulfur Monoxide (S ₂ O) on Io. Icarus, 1998, 133, 293-297.	2.5	28
41	Implications of K, Cu and Zn isotopes for the formation of tektites. Geochimica Et Cosmochimica Acta, 2019, 259, 170-187.	3.9	27
42	A refractory inclusion in the Kaba CV3 chondrite: some implications for the origin of spinel-rich objects in chondrites. Earth and Planetary Science Letters, 1985, 75, 297-310.	4.4	21
43	Volatile element chemistry during accretion of the earth. Chemie Der Erde, 2020, 80, 125594.	2.0	20
44	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
45	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
46	Injection of meteoric phosphorus into planetary atmospheres. Planetary and Space Science, 2020, 187, 104926.	1.7	17
47	Kinetics of Gas-Grain Reactions in the Solar Nebula. Space Sciences Series of ISSI, 2000, , 177-200.	0.0	16
48	The sulfur vapor pressure over pyrite on the surface of Venus. Planetary and Space Science, 1998, 46, 683-690.	1.7	15
49	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. Earth and Planetary Science Letters, 1995, 132, 183-198.	4.4	7
50	Cosmochemistry. Thirty Years of Astronomical Discovery With UKIRT, 2010, , 347-377.	0.3	7
51	High temperature evaporation and isotopic fractionation of K and Cu. Geochimica Et Cosmochimica Acta, 2022, 316, 1-20.	3.9	7
52	Solubility of CO ₂ in Sodium Silicate Melts. ACS Earth and Space Chemistry, 2020, 4, 2113-2120.	2.7	1
53	Chemistry and Composition of Planetary Atmospheres. ACS Symposium Series, 2008, , 187-207.	0.5	0