

Brandon C Johnson

List of Publications by Year in descending order

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62
papers

2,071
citations

201674

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h-index

254184

43
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62
all docs

62
docs citations

62
times ranked

1900
citing authors

#	ARTICLE	IF	CITATIONS
1	The Origin of Lunar Mascon Basins. <i>Science</i> , 2013, 340, 1552-1555.	12.6	174
2	Impact jetting as the origin of chondrules. <i>Nature</i> , 2015, 517, 339-341.	27.8	145
3	Impact spherules as a record of an ancient heavy bombardment of Earth. <i>Nature</i> , 2012, 485, 75-77.	27.8	114
4	South Pole's Aitken basin ejecta reveal the Moon's upper mantle. <i>Geology</i> , 2017, 45, 1063-1066.	4.4	101
5	Formation of spherules in impact produced vapor plumes. <i>Icarus</i> , 2012, 217, 416-430.	2.5	87
6	Formation of the Orientale lunar multiring basin. <i>Science</i> , 2016, 354, 441-444.	12.6	78
7	A SELF-CONSISTENT MODEL OF THE CIRCUMSTELLAR DEBRIS CREATED BY A GIANT HYPERVELOCITY IMPACT IN THE HD 172555 SYSTEM. <i>Astrophysical Journal</i> , 2012, 761, 45.	4.5	77
8	Spherule layers, crater scaling laws, and the population of ancient terrestrial impactors. <i>Icarus</i> , 2016, 271, 350-359.	2.5	74
9	The reduction of friction in long runout landslides as an emergent phenomenon. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 881-889.	2.8	71
10	Formation of melt droplets, melt fragments, and accretionary impact lapilli during a hypervelocity impact. <i>Icarus</i> , 2014, 228, 347-363.	2.5	65
11	The fractured Moon: Production and saturation of porosity in the lunar highlands from impact cratering. <i>Geophysical Research Letters</i> , 2015, 42, 6939-6944.	4.0	63
12	Projectile remnants in central peaks of lunar impact craters. <i>Nature Geoscience</i> , 2013, 6, 435-437.	12.9	60
13	Jetting during vertical impacts of spherical projectiles. <i>Icarus</i> , 2014, 238, 13-22.	2.5	58
14	The formation of lunar mascon basins from impact to contemporary form. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2378-2397.	3.6	57
15	Preimpact porosity controls the gravity signature of lunar craters. <i>Geophysical Research Letters</i> , 2015, 42, 9711-9716.	4.0	50
16	Impact-driven mobilization of deep crustal brines on dwarf planet Ceres. <i>Nature Astronomy</i> , 2020, 4, 741-747.	10.1	50
17	Porosity and Salt Content Determine if Subduction Can Occur in Europa's Ice Shell. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2765-2778.	3.6	48
18	Post-impact thermal structure and cooling timescales of Occator crater on asteroid 1 Ceres. <i>Icarus</i> , 2019, 320, 110-118.	2.5	44

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19	Formation of the Sputnik Planum basin and the thickness of Pluto's subsurface ocean. <i>Geophysical Research Letters</i> , 2016, 43, 10,068.	4.0	42
20	Dynamic sublimation pressure and the catastrophic breakup of Comet ISON. <i>Icarus</i> , 2015, 258, 430-437.	2.5	41
21	Timing of the formation and migration of giant planets as constrained by CB chondrites. <i>Science Advances</i> , 2016, 2, e1601658.	10.3	38
22	Gravity field of the Orientale basin from the Gravity Recovery and Interior Laboratory Mission. <i>Science</i> , 2016, 354, 438-441.	12.6	38
23	Subsurface morphology and scaling of lunar impact basins. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1695-1712.	3.6	37
24	Ferrovulcanism on metal worlds and the origin of pallasites. <i>Nature Astronomy</i> , 2020, 4, 41-44.	10.1	37
25	Drop Height and Volume Control the Mobility of Long-Runout Landslides on the Earth and Mars. <i>Geophysical Research Letters</i> , 2017, 44, 12,091.	4.0	31
26	Ring faults and ring dikes around the Orientale basin on the Moon. <i>Icarus</i> , 2018, 310, 1-20.	2.5	31
27	Impact Crater Morphology and the Structure of Europa's Ice Shell. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2685-2701.	3.6	29
28	Impact Fragmentation and the Development of the Deep Lunar Megaregolith. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 941-957.	3.6	27
29	Effect of impact velocity and acoustic fluidization on the simple-to-complex transition of lunar craters. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 800-821.	3.6	23
30	Antipodal terrains created by the Rheasilvia basin forming impact on asteroid 4 Vesta. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 1821-1834.	3.6	22
31	Where have all the craters gone? Earth's bombardment history and the expected terrestrial cratering record. <i>Geology</i> , 2014, 42, 587-590.	4.4	22
32	NO _x production and rainout from Chicxulub impact ejecta reentry. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 2152-2168.	3.6	19
33	Controls on the Formation of Lunar Multiring Basins. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3035-3050.	3.6	19
34	Dwell time at high pressure of meteorites during impact ejection from Mars. <i>Icarus</i> , 2020, 343, 113689.	2.5	18
35	Why the lunar South Pole-Aitken Basin is not a mascon. <i>Icarus</i> , 2020, 352, 113995.	2.5	16
36	How Sublimation Delays the Onset of Dusty Debris Disk Formation around White Dwarf Stars. <i>Astrophysical Journal Letters</i> , 2021, 913, L31.	8.3	14

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37	An endogenic origin of cerean organics. <i>Earth and Planetary Science Letters</i> , 2020, 534, 116069.	4.4	12
38	A South Pole Aitken impact origin of the lunar compositional asymmetry. <i>Science Advances</i> , 2022, 8, eabm8475.	10.3	11
39	Isostatic Compensation of the Lunar Highlands. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 646-665.	3.6	10
40	HD 145263: Spectral Observations of Silica Debris Disk Formation via Extreme Space Weathering?. <i>Astrophysical Journal</i> , 2020, 894, 116.	4.5	10
41	Modeling the formation of Menrva impact crater on Titan: Implications for habitability. <i>Icarus</i> , 2021, 370, 114679.	2.5	10
42	Estimating Venusian thermal conditions using multiring basin morphology. <i>Nature Astronomy</i> , 2021, 5, 498-502.	10.1	9
43	Jetting during oblique impacts of spherical impactors. <i>Icarus</i> , 2021, 360, 114365.	2.5	9
44	Pluto's Antipodal Terrains Imply a Thick Subsurface Ocean and Hydrated Core. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091596.	4.0	9
45	Formation of Chondrules by Planetesimal Collisions. , 0, , 343-360.		8
46	Landslide Morphology and Mobility on Ceres Controlled by Topography. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006640.	3.6	7
47	Impact generated porosity in Gale crater and implications for the density of sedimentary rocks in lower Aeolis Mons. <i>Icarus</i> , 2021, 366, 114539.	2.5	6
48	Lunar Megaregolith Structure Revealed by GRAIL Gravity Data. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095978.	4.0	6
49	Reply to comment by Iverson on "The reduction of friction in long runout landslides as an emergent phenomenon". <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 2243-2246.	2.8	5
50	Effect of ice sheet thickness on formation of the Hiawatha impact crater. <i>Earth and Planetary Science Letters</i> , 2021, 566, 116972.	4.4	5
51	Impactor material records the ancient lunar magnetic field in antipodal anomalies. <i>Nature Communications</i> , 2021, 12, 6543.	12.8	4
52	Porosity Evolution in Metallic Asteroids: Implications for the Origin and Thermal History of Asteroid 16 Psyche. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	4
53	A Late Paleocene age for Greenland's Hiawatha impact structure. <i>Science Advances</i> , 2022, 8, eabm2434.	10.3	4
54	Reply to comment by Davies and McSaveney on "The reduction of friction in long runout landslides as an emergent phenomenon". <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1721-1723.	2.8	3

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55	Records of Magnetic Fields in the Chondrule Formation Environment. , 0, , 324-340.		3
56	Impact plumeâ€formed and protoplanetary disk highâ€temperature components in CB and CH metalâ€rich carbonaceous chondrites. Meteoritics and Planetary Science, 2022, 57, 352-380.	1.6	3
57	Ice Shell Structure of Ganymede and Callisto Based on Impact Crater Morphology. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	3
58	RW Aur A: SpeX Spectral Evidence for Differentiated Planetesimal Formation, Migration, and Destruction in an âˆ¼1/3 Myr Old Excited CTTS System. Astrophysical Journal, 2022, 928, 189.	4.5	3
59	Climatic effects of the Chicxulub impact ejecta. AIP Conference Proceedings, 2012, , .	0.4	2
60	The role of target strength on the ejection of martian meteorites. Icarus, 2022, 375, 114869.	2.5	2
61	Methane-saturated Layers Limit the Observability of Impact Craters on Titan. Planetary Science Journal, 2022, 3, 50.	3.6	2
62	Chondrule formation via impact jetting in the icy outer solar system. Icarus, 2022, 384, 115110.	2.5	1