D L Buczkowski

List of Publications by Year in descending order

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201674 149698 3,160 62 27 56 citations h-index g-index papers 62 62 62 2172 citing authors all docs docs citations times ranked

#	Article	IF	CITATIONS
1	Concepts for the Future Exploration of Dwarf Planet Ceres' Habitability. Planetary Science Journal, 2022, 3, 41.	3.6	9
2	Geomorphology of Vesta. , 2022, , 67-80.		0
3	What are the main geological processes that determined the evolution and current state of small bodies and are they similar to those on larger bodies?. , 2021, 53, .		O
4	The Importance of Further Studies and Missions to Understand Cryovolcanism. , 2021, 53, .		О
5	The In Situ Exploration of a Relict Ocean World: An Assessment of Potential Landing and Sampling Sites for a Future Mission to the Surface of Ceres. Planetary Science Journal, 2021, 2, 94.	3.6	2
6	A roadmap for planetary caves science and exploration. Nature Astronomy, 2021, 5, 524-525.	10.1	19
7	Anomalous Phyllosilicateâ€Bearing Outcrops South of Coprates Chasma: A Study of Possible Emplacement Mechanisms. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006043.	3.6	5
8	The varied sources of faculae-forming brines in Ceres' Occator crater emplaced via hydrothermal brine effusion. Nature Communications, 2020, 11, 3680.	12.8	41
9	Impact-driven mobilization of deep crustal brines on dwarf planet Ceres. Nature Astronomy, 2020, 4, 741-747.	10.1	50
10	Post-impact cryo-hydrologic formation of small mounds and hills in Ceres's Occator crater. Nature Geoscience, 2020, 13, 605-610.	12.9	15
11	Identification of Potential Mantle Rocks Around the Lunar Imbrium Basin. Geophysical Research Letters, 2020, 47, e2020GL090334.	4.0	8
12	A Possible Brine Reservoir Beneath Occator Crater: Thermal and Compositional Evolution and Formation of the Cerealia Dome and Vinalia Faculae. Icarus, 2019, 320, 119-135.	2.5	55
13	Tectonic analysis of fracturing associated with occator crater. Icarus, 2019, 320, 49-59.	2.5	21
14	The central pit and dome at Cerealia Facula bright deposit and floor deposits in Occator crater, Ceres: Morphology, comparisons and formation. Icarus, 2019, 320, 159-187.	2.5	28
15	Dome formation on Ceres by solid-state flow analogous to terrestrial salt tectonics. Nature Geoscience, 2019, 12, 797-801.	12.9	16
16	How Much of the Sediment in Gale Crater's Central Mound Was Fluvially Transported?. Geophysical Research Letters, 2019, 46, 5092-5099.	4.0	6
17	A Global Inventory of Iceâ€Related Morphological Features on Dwarf Planet Ceres: Implications for the Evolution and Current State of the Cryosphere. Journal of Geophysical Research E: Planets, 2019, 124, 1650-1689.	3.6	33
18	Normal Faults on Ceres: Insights Into the Mechanical Properties and Thermal History of Nar Sulcus. Geophysical Research Letters, 2019, 46, 80-88.	4.0	7

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19	Synthesis of the special issue: The formation and evolution of Ceres' Occator crater. Icarus, 2019, 320, 213-225.	2.5	17
20	Ceres' Occator crater and its faculae explored through geologic mapping. Icarus, 2019, 320, 7-23.	2.5	25
21	Introduction: The geologic mapping of Ceres. Icarus, 2018, 316, 1-13.	2.5	45
22	The geology of the occator quadrangle of dwarf planet Ceres: Floor-fractured craters and other geomorphic evidence of cryomagmatism. lcarus, 2018, 316, 128-139.	2.5	26
23	Geologic mapping of the Urvara and Yalode Quadrangles of Ceres. Icarus, 2018, 316, 167-190.	2.5	23
24	Floorâ€Fractured Craters on Ceres and Implications for Interior Processes. Journal of Geophysical Research E: Planets, 2018, 123, 3188-3204.	3.6	13
25	The Nature and Origin of Deposits in Uzboi Vallis on Mars. Journal of Geophysical Research E: Planets, 2018, 123, 1842-1862.	3.6	4
26	The geology of the Nawish quadrangle of Ceres: The rim of an ancient basin. Icarus, 2018, 316, 114-127.	2.5	6
27	Long-lived volcanism within Argyre basin, Mars. Icarus, 2017, 293, 8-26.	2.5	8
28	Evidence for the Interior Evolution of Ceres from Geologic Analysis of Fractures. Geophysical Research Letters, 2017, 44, 9564-9572.	4.0	31
29	Cryogenic flow features on Ceres: Implications for craterâ€related cryovolcanism. Geophysical Research Letters, 2016, 43, 11,994.	4.0	48
30	The missing large impact craters on Ceres. Nature Communications, 2016, 7, 12257.	12.8	84
31	Mars-Moons Exploration, Reconnaissance, and Landed Investigation (MERLIN). , 2016, , .		1
32	New insights into gully formation on Mars: Constraints from composition as seen by MRO/CRISM. Geophysical Research Letters, 2016, 43, 8893-8902.	4.0	21
33	Dawn arrives at Ceres: Exploration of a small, volatile-rich world. Science, 2016, 353, 1008-1010.	12.6	178
34	Cryovolcanism on Ceres. Science, 2016, 353, .	12.6	164
35	The geomorphology of Ceres. Science, 2016, 353, .	12.6	109
36	Cratering on Ceres: Implications for its crust and evolution. Science, 2016, 353, .	12.6	135

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37	Sublimation in bright spots on (1) Ceres. Nature, 2015, 528, 237-240.	27.8	116
38	Tectonism and magmatism identified on asteroids. Geological Society Special Publication, 2015, 401, 423-441.	1.3	5
39	Knob heights within circum-Caloris geologic units on Mercury: Interpretations of the geologic history of the region. Earth and Planetary Science Letters, 2015, 430, 542-550.	4.4	4
40	Geologic mapping of ejecta deposits in Oppia Quadrangle, Asteroid (4) Vesta. Icarus, 2014, 244, 104-119.	2.5	13
41	Imprint of the Rheasilvia impact on Vesta – Geologic mapping of quadrangles Gegania and Lucaria. Icarus, 2014, 244, 60-73.	2.5	15
42	Geologic map of the northern hemisphere of Vesta based on Dawn Framing Camera (FC) images. Icarus, 2014, 244, 41-59.	2.5	29
43	The unique geomorphology and physical properties of the Vestalia Terra plateau. Icarus, 2014, 244, 89-103.	2.5	33
44	The geology of the Marcia quadrangle of asteroid Vesta: Assessing the effects of large, young craters. lcarus, 2014, 244, 74-88.	2.5	36
45	Vesta's north pole quadrangle Av-1 (Albana): Geologic map and the nature of the south polar basin antipodes. Icarus, 2014, 244, 13-22.	2.5	14
46	Compositional evidence of magmatic activity on Vesta. Geophysical Research Letters, 2014, 41, 3038-3044.	4.0	12
47	Dawn completes its mission at 4 Vesta. Meteoritics and Planetary Science, 2013, 48, 2076-2089.	1.6	54
48	Giant polygons and circular graben in western Utopia basin, Mars: Exploring possible formation mechanisms. Journal of Geophysical Research, 2012, 117, .	3.3	25
49	Pitted Terrain on Vesta and Implications for the Presence of Volatiles. Science, 2012, 338, 246-249.	12.6	91
50	Largeâ€scale troughs on Vesta: A signature of planetary tectonics. Geophysical Research Letters, 2012, 39, .	4.0	63
51	Delivery of dark material to Vesta via carbonaceous chondritic impacts. Icarus, 2012, 221, 544-559.	2.5	152
52	Vesta's Shape and Morphology. Science, 2012, 336, 687-690.	12.6	222
53	The Geologically Recent Giant Impact Basins at Vesta's South Pole. Science, 2012, 336, 694-697.	12.6	194
54	Investigation of an Argyre basin ring structure using Mars Reconnaissance Orbiter/Compact Reconnaissance Imaging Spectrometer for Mars. Journal of Geophysical Research, 2010, 115, .	3.3	25

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55	A synthesis of Martian aqueous mineralogy after $1\mathrm{Mars}$ year of observations from the Mars Reconnaissance Orbiter. Journal of Geophysical Research, 2009, 114 , .	3.3	445
56	Compact Reconnaissance Imaging Spectrometer for Mars investigation and data set from the Mars Reconnaissance Orbiter's primary science phase. Journal of Geophysical Research, 2009, 114, .	3.3	178
57	433 Eros lineaments: Global mapping and analysis. Icarus, 2008, 193, 39-52.	2.5	68
58	Stealth quasiâ€circular depressions (sQCDs) in the northern lowlands of Mars. Journal of Geophysical Research, 2007, 112, .	3.3	15
59	Kinematic analysis of radial structures around Irnini Mons, Venus. Journal of Structural Geology, 2006, 28, 2156-2168.	2.3	2
60	Buried impact craters: A topographic analysis of quasi-circular depressions, Utopia Basin, Mars. Journal of Geophysical Research, 2005, 110, n/a-n/a.	3.3	27
61	Formation of double-ring circular grabens due to volumetric compaction over buried impact craters: Implications for thickness and nature of cover material in Utopia Planitia, Mars. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	40
62	Topography within circular grabens: Implications for polygon origin, Utopia Planitia, Mars. Geophysical Research Letters, 2002, 29, 59-1.	4.0	29