

Christopher W Hamilton

List of Publications by Year in descending order

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33
papers

867
citations

430874

18
h-index

477307

29
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35
docs citations

35
times ranked

965
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis and experimental investigation of Apollo sample 12032,366â€“18, a chemically evolved basalt from the Moon. <i>Meteoritics and Planetary Science</i> , 2022, 57, 794-816.	1.6	9
2	Revealing Active Mars with HiRISE Digital Terrain Models. <i>Remote Sensing</i> , 2022, 14, 2403.	4.0	11
3	Volume, Effusion Rate, and Lava Transport During the 2021 Fagradalsfjall Eruption: Results From Near Realâ€“Time Photogrammetric Monitoring. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	30
4	Reexamining the Potential to Classify Lava Flows From the Fractality of Their Margins. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020949.	3.4	1
5	Geomorphological characterization of the 2014â€“2015 Holuhraun lava flow-field in Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 419, 107278.	2.1	17
6	Evidence for geologically recent explosive volcanism in Elysium Planitia, Mars. <i>Icarus</i> , 2021, 365, 114499.	2.5	39
7	Emplacement conditions of lunar impact melt flows. <i>Icarus</i> , 2021, 369, 114578.	2.5	4
8	Surface roughness characterization of the 2014â€“2015 Holuhraun lava flow-field in Iceland: implications for facies mapping and remote sensing. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	7
9	Sinuuous channels east of Olympus Mons, Mars: Implications for volcanic, hydrological, and tectonic processes. <i>Icarus</i> , 2021, 374, 114798.	2.5	2
10	Lavaâ€“water interaction and hydrothermal activity within the 2014â€“2015 Holuhraun Lava Flow Field, Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 408, 107100.	2.1	6
11	Brine Migration and Impactâ€“Induced Cryovolcanism on Europa. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090797.	4.0	39
12	Lavaâ€“Rise Plateaus and Inflation Pits in the McCartys Lava Flow Field, New Mexico: An Analog for Pahoehoeâ€“Like Lava Flows on Planetary Surfaces. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE005975.	3.6	15
13	Rheological investigation of lunar highland and mare impact melt simulants. <i>Icarus</i> , 2019, 317, 307-323.	2.5	13
14	Investigating the volcanic versus aqueous origin of the surficial deposits in Eastern Elysium Planitia, Mars. <i>Icarus</i> , 2018, 309, 389-410.	2.5	29
15	A Bayesian Approach to Subkilometer Crater Shape Analysis Using Individual HiRISE Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 5802-5812.	6.3	6
16	Episodes of Aqueous Flooding and Effusive Volcanism Associated With Hrad Vallis, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1484-1510.	3.6	26
17	Fragmentation mechanisms associated with explosive lavaâ€“water interactions in a lacustrine environment. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	17
18	The vanishing cryovolcanoes of Ceres. <i>Geophysical Research Letters</i> , 2017, 44, 1243-1250.	4.0	56

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19	Rootless tephra stratigraphy and emplacement processes. <i>Bulletin of Volcanology</i> , 2017, 79, 11.	3.0	16
20	Plateaus and sinuous ridges as the fingerprints of lava flow inflation in the Eastern Tharsis Plains of Mars. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 342, 29-46.	2.1	21
21	Remote sensing evidence of lava–ground ice interactions associated with the Lost Jim Lava Flow, Seward Peninsula, Alaska. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	2
22	Viscous flow rates of icy topography on the north polar layered deposits of Mars. <i>Geophysical Research Letters</i> , 2016, 43, 541-549.	4.0	26
23	Fluvial geomorphology on Earth-like planetary surfaces: A review. <i>Geomorphology</i> , 2015, 245, 149-182.	2.6	70
24	Episodes of fluvial and volcanic activity in Mangala Valles, Mars. <i>Icarus</i> , 2015, 245, 333-347.	2.5	18
25	Topographic and stochastic influences on pahoehoe lava lobe emplacement. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	3.0	31
26	Widespread crater-related pitted materials on Mars: Further evidence for the role of target volatiles during the impact process. <i>Icarus</i> , 2012, 220, 348-368.	2.5	85
27	Lava–ground ice interactions in Elysium Planitia, Mars: Geomorphological and geospatial analysis of the Tartarus Colles cone groups. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	48
28	Explosive lava–water interactions I: architecture and emplacement chronology of volcanic rootless cone groups in the 1783–1784 Laki lava flow, Iceland. <i>Bulletin of Volcanology</i> , 2010, 72, 449-467.	3.0	55
29	Explosive lava–water interactions II: self-organization processes among volcanic rootless eruption sites in the 1783–1784 Laki lava flow, Iceland. <i>Bulletin of Volcanology</i> , 2010, 72, 469-485.	3.0	37
30	Explosive lava–water interactions in Elysium Planitia, Mars: Geologic and thermodynamic constraints on the formation of the Tartarus Colles cone groups. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	36
31	Construction dynamics of a lava channel. <i>Bulletin of Volcanology</i> , 2009, 71, 459-474.	3.0	42
32	Identification of volcanic rootless cones, ice mounds, and impact craters on Earth and Mars: Using spatial distribution as a remote sensing tool. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	52
33	Differentiating Fissure–Fed Lava Flow Types and Facies Using RADAR and LiDAR: An Example from the 2014–2015 Holuhraun Lava Flow field. <i>Journal of Geophysical Research: Solid Earth</i> , 0, , .	3.4	1