

# 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  
g-index

35  
all docs

35  
docs citations

35  
times ranked

965  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Fluvial geomorphology on Earth-like planetary surfaces: A review. <i>Geomorphology</i> , 2015, 245, 149-182.	2.6	70
3	The vanishing cryovolcanoes of Ceres. <i>Geophysical Research Letters</i> , 2017, 44, 1243-1250.	4.0	56
4	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
5	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
6	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
7	Construction dynamics of a lava channel. <i>Bulletin of Volcanology</i> , 2009, 71, 459-474.	3.0	42
8	Brine Migration and Impact-Induced Cryovolcanism on Europa. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090797.	4.0	39
9	Evidence for geologically recent explosive volcanism in Elysium Planitia, Mars. <i>Icarus</i> , 2021, 365, 114499.	2.5	39
10	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
11	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
12	Topographic and stochastic influences on pahoehoe lava lobe emplacement. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	3.0	31
13	Volume, Effusion Rate, and Lava Transport During the 2021 Fagradalsfjall Eruption: Results From Near Real-Time Photogrammetric Monitoring. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	30
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	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
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	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
18	Episodes of fluvial and volcanic activity in Mangala Valles, Mars. <i>Icarus</i> , 2015, 245, 333-347.	2.5	18

#	ARTICLE	IF	CITATIONS
19	Fragmentation mechanisms associated with explosive lava-water interactions in a lacustrine environment. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	17
20	Geomorphological characterization of the 2014-2015 Holuhraun lava flow-field in Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 419, 107278.	2.1	17
21	Rootless tephra stratigraphy and emplacement processes. <i>Bulletin of Volcanology</i> , 2017, 79, 11.	3.0	16
22	Lava-Rise Plateaus and Inflation Pits in the McCarty Lava Flow Field, New Mexico: An Analog for Pahoehoe-Like Lava Flows on Planetary Surfaces. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE005975.	3.6	15
23	Rheological investigation of lunar highland and mare impact melt simulants. <i>Icarus</i> , 2019, 317, 307-323.	2.5	13
24	Revealing Active Mars with HiRISE Digital Terrain Models. <i>Remote Sensing</i> , 2022, 14, 2403.	4.0	11
25	Analysis and experimental investigation of Apollo sample 12032,366-18, a chemically evolved basalt from the Moon. <i>Meteoritics and Planetary Science</i> , 2022, 57, 794-816.	1.6	9
26	Surface roughness characterization of the 2014-2015 Holuhraun lava flow-field in Iceland: implications for facies mapping and remote sensing. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	7
27	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
28	Lava-water interaction and hydrothermal activity within the 2014-2015 Holuhraun Lava Flow Field, Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 408, 107100.	2.1	6
29	Emplacement conditions of lunar impact melt flows. <i>Icarus</i> , 2021, 369, 114578.	2.5	4
30	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
31	Sinuuous channels east of Olympus Mons, Mars: Implications for volcanic, hydrological, and tectonic processes. <i>Icarus</i> , 2021, 374, 114798.	2.5	2
32	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
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