Chris H Okubo

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2287455/publications.pdf

Version: 2024-02-01

45 papers	2,464 citations	186265 28 h-index	254184 43 g-index
46 all docs	46 docs citations	46 times ranked	1856 citing authors

#	Article	IF	Citations
1	North polar region of Mars: Advances in stratigraphy, structure, and erosional modification. Icarus, 2008, 196, 318-358.	2.5	198
2	A Closer Look at Water-Related Geologic Activity on Mars. Science, 2007, 317, 1706-1709.	12.6	185
3	Dependence of displacementâ€“length scaling relations for fractures and deformation bands on the volumetric changes across them. Journal of Structural Geology, 2008, 30, 1405-1411.	2.3	185
4	The High Resolution Imaging Science Experiment (HiRISE) during MROâ€™s Primary Science Phase (PSP). Icarus, 2010, 205, 2-37.	2.5	153
5	Pit crater formation on Kilauea volcano, Hawaii.. Journal of Volcanology and Geothermal Research, 1998, 86, 1-18.	2.1	138
6	The Colour and Stereo Surface Imaging System (CaSSIS) for the ExoMars Trace Gas Orbiter. Space Science Reviews, 2017, 212, 1897-1944.	8.1	111
7	Shallow radar (SHARAD) sounding observations of the Medusae Fossae Formation, Mars. Icarus, 2009, 199, 295-302.	2.5	102
8	Displacement-length scaling relations for faults on the terrestrial planets. Journal of Structural Geology, 2006, 28, 2182-2193.	2.3	96
9	Porosity and grain size controls on compaction band formation in Jurassic Navajo Sandstone. Geophysical Research Letters, 2010, 37, .	4.0	90
10	Fracture-Controlled Paleo-Fluid Flow in Candor Chasma, Mars. Science, 2007, 315, 983-985.	12.6	77
11	Igneous dikes on Mars revealed by Mars Orbiter Laser Altimeter topography. Geology, 2004, 32, 889.	4.4	74
12	Interpretation and analysis of planetary structures. Journal of Structural Geology, 2010, 32, 855-875.	2.3	71
13	Structural geology of Amazonian-aged layered sedimentary deposits in southwest Candor Chasma, Mars. Icarus, 2010, 207, 210-225.	2.5	63
14	Mechanical stratigraphy in the western equatorial region of Mars based on thrust faultâ€“related fold topography and implications for near-surface volatile reservoirs. Bulletin of the Geological Society of America, 2004, 116, 594.	3.3	62
15	Evidence for debris flow gully formation initiated by shallow subsurface water on Mars. Icarus, 2010, 205, 103-112.	2.5	61
16	Evolution of damage zone geometry and intensity in porous sandstone: insight gained from strain energy density. Journal of the Geological Society, 2005, 162, 939-949.	2.1	60
17	Dielectric properties of lava flows west of Ascraeus Mons, Mars. Geophysical Research Letters, 2009, 36, .	4.0	57
18	Seasonally active frostâ€dust avalanches on a north polar scarp of Mars captured by HiRISE. Geophysical Research Letters, 2008, 35, .	4.0	48

#	Article	IF	Citations
19	Deformation band clusters on Mars and implications for subsurface fluid flow. Bulletin of the Geological Society of America, 2009, 121, 474-482.	3.3	47
20	Rock mass strength and slope stability of the Hilina slump, KÄ«lauea volcano, Hawai'i. Journal of Volcanology and Geothermal Research, 2004, 138, 43-76.	2.1	46
21	Relative age of interior layered deposits in southwest Candor Chasma based on highâ€resolution structural mapping. Journal of Geophysical Research, 2008, 113, .	3.3	44
22	Near-tip stress rotation and the development of deformation band stepover geometries in mode II. Bulletin of the Geological Society of America, 2006, 118, 343-348.	3.3	43
23	Small edifice features in Chryse Planitia, Mars: Assessment of a mud volcano hypothesis. Icarus, 2016, 268, 56-75.	2.5	43
24	Inverted channel deposits on the floor of Miyamoto crater, Mars. Icarus, 2010, 205, 64-72.	2.5	38
25	Morphologic evidence of subsurface sediment mobilization and mud volcanism in Candor and Coprates Chasmata, Valles Marineris, Mars. Icarus, 2016, 269, 23-37.	2.5	37
26	Atypical pit craters on Mars: New insights from THEMIS, CTX, and HiRISE observations. Journal of Geophysical Research E: Planets, 2015, 120, 1023-1043.	3.6	36
27	The indication of Martian gully formation processes by slopeâ€“area analysis. Geological Society Special Publication, 2011, 356, 171-201.	1.3	35
28	Compactional deformation bands in Wingate Sandstone; additional evidence of an impact origin for Upheaval Dome, Utah. Earth and Planetary Science Letters, 2007, 256, 169-181.	4.4	33
29	Variability in Early Amazonian Tharsis stress state based on wrinkle ridges and strike-slip faulting. Journal of Structural Geology, 2006, 28, 2169-2181.	2.3	28
30	Geomorphic knobs of Candor Chasma, Mars: New Mars Reconnaissance Orbiter data and comparisons to terrestrial analogs. Icarus, 2010, 205, 138-153.	2.5	26
31	Thrust fault vergence directions on Mars: A foundation for investigating global-scale Tharsis-driven tectonics. Geophysical Research Letters, 2003, 30, .	4.0	25
32	Thinâ€skinned deformation of sedimentary rocks in Valles Marineris, Mars. Journal of Geophysical Research, 2010, 115, .	3.3	25
33	Strength and deformability of lightâ€toned layered deposits observed by MER Opportunity: Eagle to Erebus craters, Mars. Geophysical Research Letters, 2007, 34, .	4.0	24
34	Constraints on mechanisms for the growth of gully alcoves in Gasa crater, Mars, from two-dimensional stability assessments of rock slopes. Icarus, 2011, 211, 207-221.	2.5	21
35	Gridding Mars Orbiter Laser Altimeter data with GMT: effects of pixel size and interpolation methods on DEM integrity. Computers and Geosciences, 2004, 30, 59-72.	4.2	18
36	A Preliminary Regional Geomorphologic Map in Utopia Planitia of the Tianwenâ€1 Zhurong Landing Region. Geophysical Research Letters, 2021, 48, e2021GL094629.	4.0	14

#	Article	IF	Citations
37	The central uplift of Ritchey crater, Mars. Icarus, 2015, 252, 255-270.	2.5	11
38	Spatial distribution of damage around faults in the Joe Lott Tuff Member of the Mount Belknap Volcanics, Utah: A mechanical analog for faulting in pyroclastic deposits on Mars. Journal of Geophysical Research, 2012, 117, .	3.3	7
39	Fault populations. , 2009, , 457-510.		6
40	Coregistration of Mars Orbiter Laser Altimeter (MOLA) topography with high-resolution Mars images. Computers and Geosciences, 2009, 35, 2304-2313.	4.2	5
41	Utah's geologic and geomorphic analogs to Marsâ€"An overview for planetary exploration. , 2011, , .		4
42	Brittle deformation and slope failure at the North Menan Butte tuff cone, Eastern Snake River Plain, Idaho. Journal of Volcanology and Geothermal Research, 2014, 278-279, 86-95.	2.1	4
43	Pleistocene Lake Bonneville as an Analog for Extraterrestrial Lakes and Oceans. Developments in Earth Surface Processes, 2016, 20, 570-597.	2.8	3
44	Geologic Map of Kalaupapa Peninsula, Molokaâ€˜i, Hawaiâ€˜i, USA. Journal of Maps, 2012, 8, 267-270.	2.0	1
45	Martian cave air-movement via Helmholtz resonance. International Journal of Speleology, 2017, 46, 439-444.	1.0	1