

T Roatsch

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,896
citations

172457

29
h-index

206112

48
g-index

50
all docs

50
docs citations

50
times ranked

3072
citing authors

#	ARTICLE	IF	CITATIONS
1	Cassini Observes the Active South Pole of Enceladus. <i>Science</i> , 2006, 311, 1393-1401.	12.6	1,008
2	Dawn at Vesta: Testing the Protoplanetary Paradigm. <i>Science</i> , 2012, 336, 684-686.	12.6	422
3	The high-resolution stereo camera (HRSC) experiment on Mars Express: Instrument aspects and experiment conduct from interplanetary cruise through the nominal mission. <i>Planetary and Space Science</i> , 2007, 55, 928-952.	1.7	391
4	Cassini Imaging Science: Instrument Characteristics And Anticipated Scientific Investigations At Saturn. <i>Space Science Reviews</i> , 2004, 115, 363-497.	8.1	311
5	NEAR at Eros: Imaging and Spectral Results. <i>Science</i> , 2000, 289, 2088-2097.	12.6	250
6	The Dawn Framing Camera. <i>Space Science Reviews</i> , 2011, 163, 263-327.	8.1	248
7	Vesta's Shape and Morphology. <i>Science</i> , 2012, 336, 687-690.	12.6	222
8	The Violent Collisional History of Asteroid 4 Vesta. <i>Science</i> , 2012, 336, 690-694.	12.6	209
9	The Geologically Recent Giant Impact Basins at Vesta's South Pole. <i>Science</i> , 2012, 336, 694-697.	12.6	194
10	Dawn arrives at Ceres: Exploration of a small, volatile-rich world. <i>Science</i> , 2016, 353, 1008-1010.	12.6	178
11	Cryovolcanism on Ceres. <i>Science</i> , 2016, 353, .	12.6	164
12	Shapes of the saturnian icy satellites and their significance. <i>Icarus</i> , 2007, 190, 573-584.	2.5	153
13	The geomorphology of Ceres. <i>Science</i> , 2016, 353, .	12.6	109
14	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. <i>Science</i> , 2019, 365, 817-820.	12.6	99
15	Dione's spectral and geological properties. <i>Icarus</i> , 2010, 206, 631-652.	2.5	61
16	Geologic mapping of Vesta. <i>Planetary and Space Science</i> , 2014, 103, 2-23.	1.7	55
17	High-resolution Ceres High Altitude Mapping Orbit atlas derived from Dawn Framing Camera images. <i>Planetary and Space Science</i> , 2016, 129, 103-107.	1.7	54
18	High resolution Vesta High Altitude Mapping Orbit (HAMO) Atlas derived from Dawn framing camera images. <i>Planetary and Space Science</i> , 2012, 73, 283-286.	1.7	51

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19	Mass movement on Vesta at steep scarps and crater rims. <i>Icarus</i> , 2014, 244, 120-132.	2.5	49
20	Cryogenic flow features on Ceres: Implications for crater-related cryovolcanism. <i>Geophysical Research Letters</i> , 2016, 43, 11,994.	4.0	48
21	The Camera of the MASCOT Asteroid Lander on Board Hayabusa 2. <i>Space Science Reviews</i> , 2017, 208, 375-400.	8.1	46
22	The Dawn Topography Investigation. <i>Space Science Reviews</i> , 2011, 163, 487-510.	8.1	44
23	Bright carbonate surfaces on Ceres as remnants of salt-rich water fountains. <i>Icarus</i> , 2019, 320, 39-48.	2.5	42
24	The Saturnian satellite Rhea as seen by Cassini VIMS. <i>Planetary and Space Science</i> , 2012, 61, 142-160.	1.7	38
25	The various ages of Occator crater, Ceres: Results of a comprehensive synthesis approach. <i>Icarus</i> , 2019, 320, 60-82.	2.5	38
26	The geology of the Marcia quadrangle of asteroid Vesta: Assessing the effects of large, young craters. <i>Icarus</i> , 2014, 244, 74-88.	2.5	36
27	Ceres Survey Atlas derived from Dawn Framing Camera images. <i>Planetary and Space Science</i> , 2016, 121, 115-120.	1.7	31
28	Mass-wasting features and processes in Vesta's south polar basin - Rheasilvia. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2279-2294.	3.6	30
29	An investigation of the bluish material on Ceres. <i>Geophysical Research Letters</i> , 2017, 44, 1660-1668.	4.0	29
30	High-resolution Ceres Low Altitude Mapping Orbit Atlas derived from Dawn Framing Camera images. <i>Planetary and Space Science</i> , 2017, 140, 74-79.	1.7	29
31	The geology of the Kerwan quadrangle of dwarf planet Ceres: Investigating Ceres' oldest, largest impact basin. <i>Icarus</i> , 2018, 316, 99-113.	2.5	28
32	High-resolution Enceladus atlas derived from Cassini-ISS images. <i>Planetary and Space Science</i> , 2008, 56, 109-116.	1.7	27
33	High-resolution Vesta Low Altitude Mapping Orbit Atlas derived from Dawn Framing Camera images. <i>Planetary and Space Science</i> , 2013, 85, 293-298.	1.7	26
34	The geology of the occator quadrangle of dwarf planet Ceres: Floor-fractured craters and other geomorphic evidence of cryomagmatism. <i>Icarus</i> , 2018, 316, 128-139.	2.5	26
35	Geologic mapping of the Urvara and Yalode Quadrangles of Ceres. <i>Icarus</i> , 2018, 316, 167-190.	2.5	23
36	Ceres' Ezinu quadrangle: a heavily cratered region with evidence for localized subsurface water ice and the context of Occator crater. <i>Icarus</i> , 2018, 316, 46-62.	2.5	21

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37	The unique geomorphology and structural geology of the Haulani crater of dwarf planet Ceres as revealed by geological mapping of equatorial quadrangle Ac-6 Haulani. <i>Icarus</i> , 2018, 316, 84-98.	2.5	19
38	Recent improvements of the Saturnian satellites atlases: Mimas, Enceladus, and Dione. <i>Planetary and Space Science</i> , 2013, 77, 118-125.	1.7	13
39	A New Enceladus Global Control Network, Image Mosaic, and Updated Pointing Kernels From Cassini's 13-Year Mission. <i>Earth and Space Science</i> , 2018, 5, 604-621.	2.6	13
40	Ceres's impact craters – Relationships between surface composition and geology. <i>Icarus</i> , 2019, 318, 56-74.	2.5	11
41	Dantu's mineralogical properties – A view into the composition of Ceres' crust. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1866-1883.	1.6	10
42	The MASCOT landing area on asteroid (162173) Ryugu: Stereo-photogrammetric analysis using images of the ONC onboard the Hayabusa2 spacecraft. <i>Astronomy and Astrophysics</i> , 2019, 632, L4.	5.1	9
43	Geologic mapping of the Ac-11 Sintana quadrangle: Assessing diverse crater morphologies. <i>Icarus</i> , 2018, 316, 154-166.	2.5	7
44	Geology of Ceres's North Pole quadrangle with Dawn FC imaging data. <i>Icarus</i> , 2018, 316, 14-27.	2.5	6
45	Ceres's spectral link to carbonaceous chondrites – Analysis of the dark background materials. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1925-1945.	1.6	6
46	Spectral investigation of quadrangle AC-H 3 of the dwarf planet Ceres – The region of impact crater Dantu. <i>Icarus</i> , 2019, 318, 111-123.	2.5	5
47	Final Mimas and Enceladus atlases derived from Cassini-ISS images. <i>Planetary and Space Science</i> , 2018, 164, 13-18.	1.7	4
48	UPDATE ON THE GLOBAL GEOLOGIC MAP OF CERES FROM NASA'S DAWN MISSION. , 2016, , .		2
49	Influence of Volatiles on Mass Wasting Processes on Vesta and Ceres. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006573.	3.6	1
50	Formation of ejecta and dust pond deposits on asteroid Vesta. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006873.	3.6	0