

Katharina A Otto

List of Publications by Year in descending order

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29
papers

1,265
citations

567144

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docs citations

29
times ranked

1323
citing authors

#	ARTICLE	IF	CITATIONS
1	The geomorphology, color, and thermal properties of Ryugu: Implications for parent-body processes. <i>Science</i> , 2019, 364, 252.	6.0	313
2	Low thermal conductivity boulder with high porosity identified on C-type asteroid (162173) Ryugu. <i>Nature Astronomy</i> , 2019, 3, 971-976.	4.2	124
3	Seasonal mass transfer on the nucleus of comet 67P/Churyumovâ€™Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S357-S371.	1.6	111
4	The geomorphology of Ceres. <i>Science</i> , 2016, 353, .	6.0	109
5	Images from the surface of asteroid Ryugu show rocks similar to carbonaceous chondrite meteorites. <i>Science</i> , 2019, 365, 817-820.	6.0	99
6	The structure of the regolith on 67P/Churyumov-Gerasimenko from ROLIS descent imaging. <i>Science</i> , 2015, 349, aab0232.	6.0	86
7	The vanishing cryovolcanoes of Ceres. <i>Geophysical Research Letters</i> , 2017, 44, 1243-1250.	1.5	56
8	Mass movement on Vesta at steep scarps and crater rims. <i>Icarus</i> , 2014, 244, 120-132.	1.1	49
9	Cryogenic flow features on Ceres: Implications for craterâ€™related cryovolcanism. <i>Geophysical Research Letters</i> , 2016, 43, 11,994.	1.5	48
10	Timing of optical maturation of recently exposed material on Ceres. <i>Geophysical Research Letters</i> , 2016, 43, 11,987.	1.5	35
11	A Global Inventory of Iceâ€™Related Morphological Features on Dwarf Planet Ceres: Implications for the Evolution and Current State of the Cryosphere. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1650-1689.	1.5	33
12	Massâ€™wasting features and processes in Vesta's south polar basinâ€™Rheasilvia. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 2279-2294.	1.5	30
13	An investigation of the bluish material on Ceres. <i>Geophysical Research Letters</i> , 2017, 44, 1660-1668.	1.5	29
14	Surface Morphology of Comets and Associated Evolutionary Processes: A Review of Rosettaâ€™s Observations of 67P/Churyumovâ€™Gerasimenko. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	28
15	In situ fragmentation of lunar blocks and implications for impacts and solar-induced thermal stresses. <i>Icarus</i> , 2020, 336, 113431.	1.1	28
16	Ceres Crater Degradation Inferred From Concentric Fracturing. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1188-1203.	1.5	15
17	Surface environment of Phobos and Phobos simulant UTPS. <i>Earth, Planets and Space</i> , 2021, 73, .	0.9	15
18	Surface roughness of asteroid (162173) Ryugu and comet 67P/Churyumovâ€™Gerasimenko inferred from in situ observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 3178-3193.	1.6	11

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19	The Coriolis effect on mass wasting during the Rheasilvia impact on asteroid Vesta. <i>Geophysical Research Letters</i> , 2016, 43, 12,340.	1.5	10
20	Geologic History and Crater Morphology of Asteroid (162173) Ryugu. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006572.	1.5	10
21	Discrete element modeling of boulder and cliff morphologies on comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2020, 641, A19.	2.1	5
22	Cometary dust analogues for physics experiments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 515, 3420-3438.	1.6	5
23	Application and calibration of a simple position detector for a dust accelerator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 729, 841-848.	0.7	4
24	Spectral and Petrographic Properties of Inclusions in Carbonaceous Chondrites and Comparison with In Situ Images from Asteroid Ryugu. <i>Planetary Science Journal</i> , 2021, 2, 188.	1.5	4
25	Ringâ€Mold Craters on Ceres: Evidence for Shallow Subsurface Water Ice Sources. <i>Geophysical Research Letters</i> , 2018, 45, 8121-8128.	1.5	3
26	Asymmetric Craters on the Dwarf Planet Ceresâ€”Results of Second Extended Mission Data Analysis. <i>Geosciences (Switzerland)</i> , 2019, 9, 475.	1.0	3
27	Influence of Volatiles on Mass Wasting Processes on Vesta and Ceres. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006573.	1.5	1
28	Discrete Element Modeling of Aeolian-like Morphologies on Comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2022, 662, A2.	2.1	1
29	Formation of ejecta and dust pond deposits on asteroid Vesta. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006873.	1.5	0