Daniel MÃ¨ge

List of Publications by Year
in descending order

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46	1,935	361045	288905
papers	citations	20	40
		h-index	g-index

53	53	53	1712
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Giant Dike Swarms: Earth, Venus, and Mars. Annual Review of Earth and Planetary Sciences, 2001, 29, 489-534.	4.6	280
2	A plume tectonics model for the Tharsis province, Mars. Planetary and Space Science, 1996, 44, 1499-1546.	0.9	200
3	Magma flow directions of shallow dykes from the East Greenland volcanic margin inferred from magnetic fabric studies. Tectonophysics, 2001, 335, 313-329.	0.9	110
4	Morphology, evolution and tectonics of Valles Marineris wallslopes (Mars). Geomorphology, 2001, 37, 329-352.	1.1	95
5	Volcanic rifting at Martian grabens. Journal of Geophysical Research, 2003, 108, .	3.3	95
6	Water Vapor Vertical Profiles on Mars in Dust Storms Observed by TGO/NOMAD. Journal of Geophysical Research E: Planets, 2019, 124, 3482-3497.	1.5	88
7	One million cubic kilometers of fossil ice in Valles Marineris: Relicts of a 3.5Gy old glacial landsystem along the Martian equator. Geomorphology, 2014, 204, 235-255.	1.1	82
8	Extensive surface pedogenic alteration of the Martian Noachian crust suggested by plateau phyllosilicates around Valles Marineris. Journal of Geophysical Research, 2012, 117, .	3.3	79
9	Amounts of crustal stretching in Valles Marineris, Mars. Planetary and Space Science, 1996, 44, 749-781.	0.9	73
10	Equatorial glaciations on Mars revealed by gravitational collapse of Valles Marineris wallslopes. Earth and Planetary Science Letters, 2011, 310, 182-191.	1.8	72
11	Dyke swarm emplacement in the Ethiopian Large Igneous Province: not only a matter of stress. Journal of Volcanology and Geothermal Research, 2004, 132, 283-310.	0.8	66
12	The Canyonlands model for planetary grabens: revised physical basis and implications. , 2007, , 371-399.		58
13	Evolution of the banks of thermokarst lakes in Central Yakutia (Central Siberia) due to retrogressive thaw slump activity controlled by insolation. Geomorphology, 2015, 241, 31-40.	1.1	58
14	Stress models for Tharsis formation, Mars. Planetary and Space Science, 1996, 44, 1471-1497.	0.9	48
15	Morphology, stratigraphy, and mineralogical composition of a layered formation covering the plateaus around Valles Marineris, Mars: Implications for its geological history. Icarus, 2010, 208, 684-703.	1.1	48
16	Influence of the scar geometry on landslide dynamics and deposits: Application to Martian landslides. Journal of Geophysical Research, 2011, 116, .	3.3	46
17	Emplacement conditions of igneous dikes in Ethiopian Traps. Journal of Volcanology and Geothermal Research, 2008, 178, 683-692.	0.8	45
18	Ferric oxides in East Candor Chasma, Valles Marineris (Mars) inferred from analysis of OMEGA/Mars Express data: Identification and geological interpretation. Journal of Geophysical Research, 2008, 113, .	3.3	40

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19	Water heavily fractionated as it ascends on Mars as revealed by ExoMars/NOMAD. Science Advances, 2021, 7, .	4.7	31
20	Evidence for thermal-stress-induced rockfalls on Mars impact crater slopes. Icarus, 2020, 342, 113503.	1.1	27
21	Contractional effects of mantle plumes on Earth, Mars, and Venus. , 2001, , .		23
22	The Landscape and Landforms of the Ogaden, Southeast Ethiopia. World Geomorphological Landscapes, 2015, , 323-348.	0.1	22
23	Fissure eruption of flood basalts from statistical analysis of dyke fracture length. Journal of Volcanology and Geothermal Research, 2004, 131, 77-92.	0.8	21
24	Empirical investigation of friction weakening of terrestrial and Martian landslides using discrete element models. Landslides, 2019, 16, 1121-1140.	2.7	21
25	A method for estimating 2D Wrinkle Ridge Strain from application of fault displacement scaling to the Yakima Folds, Washington. Geophysical Research Letters, 2001, 28, 3545-3548.	1.5	19
26	Permanent groundwater storage in basaltic dyke fractures and termite mound viability. Journal of African Earth Sciences, 2010, 57, 127-142.	0.9	18
27	Global permittivity mapping of the Martian surface from SHARAD. Earth and Planetary Science Letters, 2017, 462, 55-65.	1.8	18
28	Gravity tectonics of topographic ridges: Halokinesis and gravitational spreading in the western Ogaden, Ethiopia. Geomorphology, 2013, 193, 1-13.	1.1	17
29	Geomorphology of Ius Chasma, Valles Marineris, Mars. Journal of Maps, 2017, 13, 260-269.	1.0	17
30	The Highland Terrain Hopper (HOPTER): Concept and use cases of a new locomotion system for the exploration of low gravity Solar System bodies. Acta Astronautica, 2016, 121, 200-220.	1.7	16
31	A major dyke swarm in the Ogaden region south of Afar and the early evolution of the Afar triple junction. Geological Society Special Publication, 2016, 420, 221-248.	0.8	14
32	Constraining the Magmatic Plumbing System in a Zoned Continental Flood Basalt Province. Geochemistry, Geophysics, Geosystems, 2018, 19, 3917-3944.	1.0	14
33	Uniformitarian plume tectonics: The post-Archean Earth and Mars. , 2001, , .		12
34	Mechanical conditions and modes of paraglacial deep-seated gravitational spreading in Valles Marineris, Mars. Geomorphology, 2016, 268, 246-252.	1.1	12
35	Deep-seated gravitational slope deformation scaling on Mars and Earth: same fate for different initial conditions and structural evolutions. Earth Surface Dynamics, 2019, 7, 361-376.	1.0	8
36	On Mars, Location and Orientation of Dykes Exposed along the Valles Marineris Walls Reveal Expected and Unexpected Stress Fields. Acta Geologica Sinica, 2016, 90, 177-179.	0.8	7

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37	Probing the Atmospheric Cl Isotopic Ratio on Mars: Implications for Planetary Evolution and Atmospheric Chemistry. Geophysical Research Letters, 2021, 48, e2021GL092650.	1.5	7
38	Fault populations. , 2009, , 457-510.		6
39	Inferring alteration conditions on Mars: Insights from near-infrared spectra of terrestrial basalts altered in cold and hot arid environments. Planetary and Space Science, 2015, 119, 137-154.	0.9	5
40	Dyke swarms: keys to paleogeographic reconstructions. Science Bulletin, 2016, 61, 1669-1671.	4.3	4
41	Nanotopographic characterization of microfractures in rocks by Atomic Force Microscopy. Journal of Structural Geology, 2019, 124, 70-80.	1.0	3
42	CaSSIS-based stereo products for Mars after three years in orbit. Planetary and Space Science, 2022, 219, 105515.	0.9	3
43	The Ophir Chasma Dyke Swarm: Description and Implications for the Genesis of the Valles Marineris Northern Troughs. Acta Geologica Sinica, 2016, 90, 180-182.	0.8	2
44	Evaluation of the EGNOS service for topographic profiling in field geosciences. Geomorphology, 2016, 268, 253-265.	1.1	1
45	The Ogaden Dyke Swarm: Red Sea Rifting Continued in the Somalia Plate?. Acta Geologica Sinica, 2016, 90, 56-58.	0.8	0
46	Energy Dissipation during Surface Interaction of an Underactuated Robot for Planetary Exploration. Energies, 2021, 14, 4282.	1.6	0