Giuseppe Mitri

List of Publications by Year
in descending order

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45	2,674	236925	289244
papers	citations	25 h-index	40 g-index

48	48	48	1969
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Radar evidence of subglacial liquid water on Mars. Science, 2018, 361, 490-493.	12.6	346
2	Hydrocarbon lakes on Titan: Distribution and interaction with a porous regolith. Geophysical Research Letters, 2008, 35, .	4.0	227
3	Hydrocarbon lakes on Titan. Icarus, 2007, 186, 385-394.	2.5	188
4	Titan's inventory of organic surface materials. Geophysical Research Letters, 2008, 35, .	4.0	184
5	Enceladus's internal ocean and ice shell constrained from Cassini gravity, shape, and libration data. Geophysical Research Letters, 2016, 43, 5653-5660.	4.0	141
6	Distribution and interplay of geologic processes on Titan from Cassini radar data. Icarus, 2010, 205, 540-558.	2.5	122
7	The bathymetry of a Titan sea. Geophysical Research Letters, 2014, 41, 1432-1437.	4.0	119
8	Transient surface liquid in Titanâ€™s polar regions from Cassini. Icarus, 2011, 211, 655-671.	2.5	113
9	Convectiveâ€“conductive transitions and sensitivity of a convecting ice shell to perturbations in heat flux and tidal-heating rate: Implications for Europa. Icarus, 2005, 177, 447-460.	2.5	89
10	Shape, topography, gravity anomalies and tidal deformation of Titan. Icarus, 2014, 236, 169-177.	2.5	88
11	Resurfacing of Titan by ammonia-water cryomagma. Icarus, 2008, 196, 216-224.	2.5	86
12	Geomorphological evidence for ground ice on dwarf planet Ceres. Nature Geoscience, 2017, 10, 338-343.	12.9	83
13	Active shoreline of Ontario Lacus, Titan: A morphological study of the lake and its surroundings. Geophysical Research Letters, 2010, 37, .	4.0	66
14	Thermal convection in ice-I shells of Titan and Enceladus. Icarus, 2008, 193, 387-396.	2.5	63
15	RIME: Radar for Icy Moon Exploration. , 2013, , .		57
16	Cassini RADAR images at Hotei Arcus and western Xanadu, Titan: Evidence for geologically recent cryovolcanic activity. Geophysical Research Letters, 2009, 36, .	4.0	55
17	Mountains on Titan: Modeling and observations. Journal of Geophysical Research, 2010, 115, .	3.3	54
18	Regional geomorphology and history of Titanâ€™s Xanadu province. Icarus, 2011, 211, 672-685.	2.5	52

#	Article	IF	Citations
19	Ice-Ocean Exchange Processes in the Jovian and Saturnian Satellites. Space Science Reviews, 2020, 216, 1.	8.1	43
20	Lunar Gravitational-wave Antenna. Astrophysical Journal, 2021, 910, 1.	4.5	41
21	A model for the temperature-dependence of tidal dissipation in convective plumes on icy satellites: Implications for Europa and Enceladus. Icarus, 2008, 195, 758-764.	2.5	37
22	Putative ice flows on Europa: Geometric patterns and relation to topography collectively constrain material properties and effusion rates. Icarus, 2005, 177, 413-424.	2.5	35
23	Titan as Revealed by the Cassini Radar. Space Science Reviews, 2019, 215, 1.	8.1	34
24	The lakes and seas of Titan. Eos, 2007, 88, 569-570.	0.1	30
25	Deep and methane-rich lakes on Titan. Nature Astronomy, 2019, 3, 535-542.	10.1	30
26	Evidence of non-uniform crust of Ceres from Dawnâ€™s high-resolution gravity data. Nature Astronomy, 2020, 4, 748-755.	10.1	30
27	Jupiter ICY moon explorer (JUICE): Advances in the design of the radar for Icy Moons (RIME). , 2015, , .		29
28	The exploration of Titan with an orbiter and a lake probe. Planetary and Space Science, 2014, 104, 78-92.	1.7	26
29	Explorer of Enceladus and Titan (E2T): Investigating ocean worlds' evolution and habitability in the solar system. Planetary and Space Science, 2018, 155, 73-90.	1.7	26
30	A corridor of exposed ice-rich bedrock across Titanâ€™s tropical region. Nature Astronomy, 2019, 3, 642-648.	10.1	23
31	Titan's Interior Structure. , 2009, , 61-73.		23
32	Radar Signal Penetration and Horizons Detection on Europa Through Numerical Simulations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 118-129.	4.9	17
33	Science goals and mission concept for the future exploration of Titan and Enceladus. Planetary and Space Science, 2014, 104, 59-77.	1.7	15
34	The rotational dynamics of Titan from Cassini RADAR images. Icarus, 2016, 275, 183-192.	2.5	15
35	Evidence of transpressional tectonics on the Uruk Sulcus region, Ganymede. Tectonophysics, 2018, 749, 72-87.	2.2	14
36	Possible explosion crater origin of small lake basins with raised rims on Titan. Nature Geoscience, 2019, 12, 791-796.	12.9	14

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37	Relict Ocean Worlds: Ceres. Space Science Reviews, 2020, 216, 1.	8.1	14
38	Spreading vs. Rifting as modes of extensional tectonics on the globally expanded Ganymede. Icarus, 2017, 288, 148-159.	2.5	10
39	Beyond Earth: How extra-terrestrial volcanism has changed our definition of a volcano. , 2010, , .		9
40	Titanâ€™s Xanadu region: Geomorphology and formation scenario. Icarus, 2013, 223, 796-803.	2.5	9
41	Enceladus as a potential oasis for life: Science goals and investigations for future explorations. Experimental Astronomy, 2022, 54, 809-847.	3.7	5
42	Geomorphological Analysis of the Southwestern Margin of Xanadu, Titan: Insights on Tectonics. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006407.	3.6	4
43	Exploration of Enceladus and Titan: investigating ocean worldsâ€™ evolution and habitability in the Saturn system. Experimental Astronomy, 2022, 54, 877-910.	3.7	3
44	Future Exploration of Enceladus and Other Saturnian Moons. , 2018, , .		2
45	Frequency-dependent Ganymedeâ€™s tidal Love number <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si415.svg" display="inline" id="d1e3068"><mml:msub><mml:mrow><mml:mi>k</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math> detection by JUICEâ€™s 3GM experiment and implications for the subsurface ocean thickness. Icarus, 2022, 386, 115150.	2.5	2