

# Marco Mastrogiuseppe

## List of Publications by Year in descending order

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30  
papers

693  
citations

567144

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all docs

32  
docs citations

32  
times ranked

459  
citing authors

#	ARTICLE	IF	CITATIONS
1	The bathymetry of a Titan sea. <i>Geophysical Research Letters</i> , 2014, 41, 1432-1437.	1.5	119
2	Titan's surface at 2.18-cm wavelength imaged by the Cassini RADAR radiometer: Results and interpretations through the first ten years of observation. <i>Icarus</i> , 2016, 270, 443-459.	1.1	79
3	Geomorphologic mapping of Titan's polar terrains: Constraining surface processes and landscape evolution. <i>Icarus</i> , 2017, 282, 214-236.	1.1	46
4	Composition, seasonal change, and bathymetry of Ligeia Mare, Titan, derived from its microwave thermal emission. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 233-251.	1.5	44
5	Topographic Constraints on the Evolution and Connectivity of Titan's Lacustrine Basins. <i>Geophysical Research Letters</i> , 2017, 44, 11,745.	1.5	43
6	Bathymetry and composition of Titan's Ontario Lacus derived from Monte Carlo-based waveform inversion of Cassini RADAR altimetry data. <i>Icarus</i> , 2018, 300, 203-209.	1.1	38
7	Titan's "Magic Islands" Transient features in a hydrocarbon sea. <i>Icarus</i> , 2016, 271, 338-349.	1.1	37
8	Titan's cold case files - Outstanding questions after Cassini-Huygens. <i>Planetary and Space Science</i> , 2018, 155, 50-72.	0.9	37
9	Liquid-filled canyons on Titan. <i>Geophysical Research Letters</i> , 2016, 43, 7887-7894.	1.5	32
10	Radar Sounding Using the Cassini Altimeter: Waveform Modeling and Monte Carlo Approach for Data Inversion of Observations of Titan's Seas. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 5646-5656.	2.7	31
11	Deep and methane-rich lakes on Titan. <i>Nature Astronomy</i> , 2019, 3, 535-542.	4.2	30
12	Titan dune heights retrieval by using Cassini Radar Altimeter. <i>Icarus</i> , 2014, 230, 191-197.	1.1	24
13	Surface roughness of Titan's hydrocarbon seas. <i>Earth and Planetary Science Letters</i> , 2017, 474, 20-24.	1.8	21
14	Cassini radar observation of Punga Mare and environs: Bathymetry and composition. <i>Earth and Planetary Science Letters</i> , 2018, 496, 89-95.	1.8	20
15	Constraining the physical properties of Titan's empty lake basins using nadir and off-nadir Cassini RADAR backscatter. <i>Icarus</i> , 2016, 270, 57-66.	1.1	19
16	Possible explosion crater origin of small lake basins with raised rims on Titan. <i>Nature Geoscience</i> , 2019, 12, 791-796.	5.4	14
17	The Bathymetry of Moray Sinus at Titan's Kraken Mare. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006558.	1.5	10
18	Super Resolution and Interferences Suppression Technique Applied to SHARAD Data. , 2018, , .		8

#	ARTICLE	IF	CITATIONS
19	Resolution Enhancement and Interference Suppression for Planetary Radar Sounders. , 2018, , .		6
20	High-Resolution Topography of Titan Adapting the Delay/Doppler Algorithm to the Cassini RADAR Altimeter Data. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7262-7268.	2.7	6
21	Science goals and new mission concepts for future exploration of Titan's atmosphere, geology and habitability: titan Polar scout/orbitEr and in situ lake lander and DrONE explorer (POSEIDON). Experimental Astronomy, 2022, 54, 911-973.	1.6	5
22	Dune Height Estimation on Titan Exploiting Pairs of Synthetic Aperture Radar Images With Different Observation Angles. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2015, 8, 1295-1306.	2.3	4
23	Dual Frequency Orbiter-Radar System for the Observation of Seas and Tides on Titan: Extraterrestrial Oceanography from Satellite. Remote Sensing, 2019, 11, 1898.	1.8	4
24	Geomorphological Analysis of the Southwestern Margin of Xanadu, Titan: Insights on Tectonics. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006407.	1.5	4
25	Signal enhancement for planetary radar sounders. Electronics Letters, 2019, 55, 153-155.	0.5	3
26	Exploration of Enceladus and Titan: investigating ocean worlds's evolution and habitability in the Saturn system. Experimental Astronomy, 2022, 54, 877-910.	1.6	3
27	Diverse evolution of mountains and hummocks on Titan as observed by the Cassini RADAR altimeter. Icarus, 2022, 374, 114775.	1.1	2
28	Validation of a Pseudospectral Time-Domain (PSTD) Planetary Radar Sounding Simulator With SHARAD Radar Sounding Data. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-15.	2.7	2
29	Shallow Radar (SHARAD) investigations over Sinus Meridiani. , 2012, , .		1
30	Advanced processing of altimetry Cassini radar data. , 2011, , .		0