

# Marco Mastrogiuseppe

## List of Publications by Year in descending order

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30  
papers

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citations

567144

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times ranked

459  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Exploration of Enceladus and Titan: investigating ocean worldsâ€™ evolution and habitability in the Saturn system. <i>Experimental Astronomy</i> , 2022, 54, 877-910.  | 1.6 | 3         |
| 2  | Diverse evolution of mountains and hummocks on Titan as observed by the Cassini RADAR altimeter. <i>Icarus</i> , 2022, 374, 114775.  | 1.1 | 2         |
| 3  | Science goals and new mission concepts for future exploration of Titanâ€™s atmosphere, geology and habitability: titan POlar scout/orbitEr and in situ lake lander and DrONE explorer (POSEIDON). <i>Experimental Astronomy</i> , 2022, 54, 911-973. | 1.6 | 5         |
| 4  | Validation of a Pseudospectral Time-Domain (PSTD) Planetary Radar Sounding Simulator With SHARAD Radar Sounding Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-15.  | 2.7 | 2         |
| 5  | The Bathymetry of Moray Sinus at Titan's Kraken Mare. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006558.  | 1.5 | 10        |
| 6  | Geomorphological Analysis of the Southwestern Margin of Xanadu, Titan: Insights on Tectonics. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006407.  | 1.5 | 4         |
| 7  | High-Resolution Topography of Titan Adapting the Delay/Doppler Algorithm to the Cassini RADAR Altimeter Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 7262-7268.   | 2.7 | 6         |
| 8  | Dual Frequency Orbiter-Radar System for the Observation of Seas and Tides on Titan: Extraterrestrial Oceanography from Satellite. <i>Remote Sensing</i> , 2019, 11, 1898.  | 1.8 | 4         |
| 9  | Possible explosion crater origin of small lake basins with raised rims on Titan. <i>Nature Geoscience</i> , 2019, 12, 791-796.   | 5.4 | 14        |
| 10 | Deep and methane-rich lakes on Titan. <i>Nature Astronomy</i> , 2019, 3, 535-542.  | 4.2 | 30        |
| 11 | Signal enhancement for planetary radar sounders. <i>Electronics Letters</i> , 2019, 55, 153-155.   | 0.5 | 3         |
| 12 | Titan's cold case files - Outstanding questions after Cassini-Huygens. <i>Planetary and Space Science</i> , 2018, 155, 50-72.  | 0.9 | 37        |
| 13 | 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        |
| 14 | Resolution Enhancement and Interference Suppression for Planetary Radar Sounders. , 2018, , .  |     | 6         |
| 15 | Super Resolution and Interferences Suppression Technique Applied to SHARAD Data. , 2018, , .   |     | 8         |
| 16 | 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        |
| 17 | Topographic Constraints on the Evolution and Connectivity of Titan's Lacustrine Basins. <i>Geophysical Research Letters</i> , 2017, 44, 11,745.  | 1.5 | 43        |
| 18 | Surface roughness of Titan's hydrocarbon seas. <i>Earth and Planetary Science Letters</i> , 2017, 474, 20-24.  | 1.8 | 21        |

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|----|--|-----|-----------|
| 19 | Geomorphologic mapping of titan's polar terrains: Constraining surface processes and landscape evolution. <i>Icarus</i> , 2017, 282, 214-236.  | 1.1 | 46        |
| 20 | 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        |
| 21 | Liquid-filled canyons on Titan. <i>Geophysical Research Letters</i> , 2016, 43, 7887-7894.   | 1.5 | 32        |
| 22 | 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        |
| 23 | 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        |
| 24 | 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        |
| 25 | Titan's "Magic Islands": Transient features in a hydrocarbon sea. <i>Icarus</i> , 2016, 271, 338-349.  | 1.1 | 37        |
| 26 | Dune Height Estimation on Titan Exploiting Pairs of Synthetic Aperture Radar Images With Different Observation Angles. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2015, 8, 1295-1306. | 2.3 | 4         |
| 27 | Titan dune heights retrieval by using Cassini Radar Altimeter. <i>Icarus</i> , 2014, 230, 191-197.   | 1.1 | 24        |
| 28 | The bathymetry of a Titan sea. <i>Geophysical Research Letters</i> , 2014, 41, 1432-1437.  | 1.5 | 119       |
| 29 | Shallow Radar (SHARAD) investigations over Sinus Meridiani. , 2012, , .  |     | 1         |
| 30 | Advanced processing of altimetry Cassini radar data. , 2011, , .   |     | 0         |