

Raffaele Mugnuolo

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

625
citations

933447

10
h-index

752698

20
g-index

39
all docs

39
docs citations

39
times ranked

1041
citing authors

#	ARTICLE	IF	CITATIONS
1	Bright carbonate deposits as evidence of aqueous alteration on (1) Ceres. <i>Nature</i> , 2016, 536, 54-57.	27.8	240
2	The Rosetta Lander (‘‘Philae’’) Investigations. <i>Space Science Reviews</i> , 2007, 128, 205-220.	8.1	76
3	Ma_MISS on ExoMars: Mineralogical Characterization of the Martian Subsurface. <i>Astrobiology</i> , 2017, 17, 612-620.	3.0	62
4	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	47
5	Rosetta lander in situ characterization of a comet nucleus. <i>Acta Astronautica</i> , 1999, 45, 389-395.	3.2	25
6	The exploitation of Europa ice and water basins. <i>Planetary and Space Science</i> , 1999, 47, 921-933.	1.7	21
7	The DREAMS Experiment Onboard the Schiaparelli Module of the ExoMars 2016 Mission: Design, Performances and Expected Results. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	19
8	iMARS Phase 2. <i>Astrobiology</i> , 2018, 18, S-1-S-131.	3.0	18
9	Current status and scientific capabilities of the Rosetta lander payload. <i>Advances in Space Research</i> , 2002, 29, 1199-1208.	2.6	13
10	The DREAMS experiment on the ExoMars 2016 mission for the study of Martian environment during the dust storm season. , 2014, , .		13
11	The SPIDER manipulation system (SMS) The Italian approach to space automation. <i>Robotics and Autonomous Systems</i> , 1998, 23, 79-88.	5.1	11
12	The pre-launch characterization of SIMBIO-SYS/VIHI imaging spectrometer for the BepiColombo mission to Mercury. I. Linearity, radiometry, and geometry calibrations. <i>Review of Scientific Instruments</i> , 2017, 88, 094502.	1.3	10
13	INRRI-EDM/2016: the first laser retroreflector on the surface of Mars. <i>Advances in Space Research</i> , 2017, 59, 645-655.	2.6	10
14	The spectral imaging facility: Setup characterization. <i>Review of Scientific Instruments</i> , 2015, 86, 093101.	1.3	9
15	The DREAMS experiment flown on the ExoMars 2016 mission for the study of Martian environment during the dust storm season. <i>Measurement: Journal of the International Measurement Confederation</i> , 2018, 122, 484-493.	5.0	9
16	The pre-launch characterization of SIMBIO-SYS/VIHI imaging spectrometer for the BepiColombo mission to Mercury. II. Spectral calibrations. <i>Review of Scientific Instruments</i> , 2017, 88, 094503.	1.3	8
17	Optical-Performance Testing of the Laser RetroReflector for InSight. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	8
18	SIMBIO-SYS/STC stereo camera calibration: Geometrical distortion. <i>Review of Scientific Instruments</i> , 2019, 90, 043106.	1.3	6

#	ARTICLE	IF	CITATIONS
19	Performance evaluation of the SIMBIO-SYS Stereo Imaging Channel on board BepiColombo/ESA spacecraft. Measurement: Journal of the International Measurement Confederation, 2019, 135, 828-835.	5.0	5
20	Robotics for ROSETTA cometary landing mission. Robotics and Autonomous Systems, 1998, 23, 73-77.	5.1	3
21	3D object recognition based on a viewpoint-analysis. Image and Vision Computing, 1992, 10, 549-556.	4.5	2
22	Europa (External Use of Robotics For Payloads Automation). , 2001, , .		2
23	The optical design of the MAJIS instrument on board of the JUICE mission. , 2018, , .		2
24	The ExoMars DREAMS scientific data archive. , 2016, , .		1
25	Ma_MISS Flight Model Calibration Target: Spectral Characterization. , 2018, , .		1
26	Development of a simulator of the SIMBIOSYS suite onboard the BepiColombo mission. Monthly Notices of the Royal Astronomical Society, 2020, 491, 1673-1689.	4.4	1
27	Spectral response of the stereo imaging channel of SIMBIO-SYS on-board the ESA BepiColombo Mission. , 2019, , .		1
28	SIMBIO-SYS Near Earth Commissioning Phase: a step forward toward Mercury. , 2019, , .		1
29	Advances On Integration Between Stereo Sparse Data And Orientation Map. , 1990, 1192, 387.		0
30	<title>Three-dimensional location and attitude evaluation for rendezvous and docking operation using a single camera</title>. , 1993, 1713, 255.		0
31	<title>Fuzzy neural network with fast backpropagation learning</title>. , 1995, , .		0
32	Italian participation in the Mars exploration program. Advances in Space Research, 2001, 28, 1197-1202.	2.6	0
33	Challenging design and development of Ma_Miss, a miniaturised spectrometric instrument for Mars sub-soil analysis. Proceedings of SPIE, 2011, , .	0.8	0
34	The electrical ground support equipment for the ExoMars 2016 DREAMS scientific instrument. , 2014, , .		0
35	The EGSE for the DREAMS payload onboard the ExoMars 2016 space mission. , 2014, , .		0
36	MarsTEM field test in Mars analog environment. , 2015, , .		0

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37	Trade-off between TMA and RC configurations for JANUS camera. Proceedings of SPIE, 2016, , .	0.8	0