Stefano Debei

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5629644/publications.pdf

Version: 2024-02-01

216 papers	8,113 citations	53794 45 h-index	53230 85 g-index
216 all docs	216 docs citations	216 times ranked	3460 citing authors

#	Article	IF	Citations
1	In situ measurements of the physical characteristics of Titan's environment. Nature, 2005, 438, 785-791.	27.8	620
2	On the nucleus structure and activity of comet 67P/Churyumov-Gerasimenko. Science, 2015, 347, aaa1044.	12.6	366
3	Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun. Science, 2015, 347, aaa3905.	12.6	310
4	OSIRIS â€“ The Scientific Camera System Onboard Rosetta. Space Science Reviews, 2007, 128, 433-506.	8.1	286
5	The morphological diversity of comet 67P/Churyumov-Gerasimenko. Science, 2015, 347, aaa0440.	12.6	259
6	The global shape, density and rotation of Comet 67P/Churyumov-Gerasimenko from preperihelion Rosetta/OSIRIS observations. Icarus, 2016, 277, 257-278.	2.5	252
7	Shape model, reference system definition, and cartographic mapping standards for comet 67P/Churyumov-Gerasimenko â€“ Stereo-photogrammetric analysis of Rosetta/OSIRIS image data. Astronomy and Astrophysics, 2015, 583, A33.	5.1	188
8	Spectrophotometric properties of the nucleus of comet 67P/Churyumov-Gerasimenko from the OSIRIS instrument onboard the ROSETTA spacecraft. Astronomy and Astrophysics, 2015, 583, A30.	5.1	188
9	Images of Asteroid 21 Lutetia: A Remnant Planetesimal from the Early Solar System. Science, 2011, 334, 487-490.	12.6	179
10	Insolation, erosion, and morphology of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A34.	5.1	173
11	The primordial nucleus of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 592, A63.	5.1	159
12	Large heterogeneities in comet 67P as revealed by active pits from sinkhole collapse. Nature, 2015, 523, 63-66.	27.8	158
13	EVOLUTION OF THE DUST SIZE DISTRIBUTION OF COMET 67P/CHURYUMOVâ€“GERASIMENKO FROM 2.2 au TO PERIHELION. Astrophysical Journal, 2016, 821, 19.	4.5	158
14	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images. Astronomy and Astrophysics, 2015, 583, A26.	5.1	153
15	Redistribution of particles across the nucleus of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A17.	5.1	149
16	Two independent and primitive envelopes of the bilobate nucleus of comet 67P. Nature, 2015, 526, 402-405.	27.8	141
17	E-Type Asteroid (2867) Steins as Imaged by OSIRIS on Board Rosetta. Science, 2010, 327, 190-193.	12.6	120
18	Gravitational slopes, geomorphology, and material strengths of the nucleus of comet 67P/Churyumov-Gerasimenko from OSIRIS observations. Astronomy and Astrophysics, 2015, 583, A32.	5.1	113

#	Article	IF	Citations
19	Summer fireworks on comet 67P. Monthly Notices of the Royal Astronomical Society, 2016, 462, S184-S194.	4.4	112
20	The Colour and Stereo Surface Imaging System (CaSSIS) for the ExoMars Trace Gas Orbiter. Space Science Reviews, 2017, 212, 1897-1944.	8.1	111
21	Seasonal mass transfer on the nucleus of comet 67P/Chuyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S357-S371.	4.4	111
22	Size-frequency distribution of boulders â‰¥7 m on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A37.	5.1	108
23	The global meter-level shape model of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 607, L1.	5.1	107
24	Are fractured cliffs the source of cometary dust jets? Insights from OSIRIS/Rosetta at 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 587, A14.	5.1	102
25	The pristine interior of comet 67P revealed by the combined Aswan outburst and cliff collapse. Nature Astronomy, 2017, 1, .	10.1	100
26	OSIRIS observations of meter-sized exposures of H₂O ice at the surface of 67P/Churyumov-Gerasimenko and interpretation using laboratory experiments. Astronomy and Astrophysics, 2015, 583, A25.	5.1	97
27	Rosettaâ€™s comet 67P/Churyumov-Gerasimenko sheds its dusty mantle to reveal its icy nature. Science, 2016, 354, 1566-1570.	12.6	97
28	A collision in 2009 as the origin of the debris trail of asteroid P/2010â€‰A2. Nature, 2010, 467, 814-816.	27.8	94
29	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images: The southern hemisphere. Astronomy and Astrophysics, 2016, 593, A110.	5.1	86
30	The rotation state of 67P/Churyumov-Gerasimenko from approach observations with the OSIRIS cameras on Rosetta. Astronomy and Astrophysics, 2014, 569, L2.	5.1	81
31	Fractures on comet 67P/Churyumovâ€Gerasimenko observed by Rosetta/OSIRIS. Geophysical Research Letters, 2015, 42, 5170-5178.	4.0	71
32	SIMBIO-SYS: The spectrometer and imagers integrated observatory system for the BepiColombo planetary orbiter. Planetary and Space Science, 2010, 58, 125-143.	1.7	70
33	Scientific assessment of the quality of OSIRIS images. Astronomy and Astrophysics, 2015, 583, A46.	5.1	67
34	Surface changes on comet 67P/Churyumov-Gerasimenko suggest a more active past. Science, 2017, 355, 1392-1395.	12.6	63
35	67P/Churyumov-Gerasimenko: Activity between March and June 2014 as observed from Rosetta/OSIRIS. Astronomy and Astrophysics, 2015, 573, A62.	5.1	60
36	Temporal morphological changes in the Imhotep region of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A36.	5.1	60

#	Article	IF	Citations
37	The 2016 Feb 19 outburst of comet 67P/CG: an ESA Rosetta multi-instrument study. Monthly Notices of the Royal Astronomical Society, 2016, 462, S220-S234.	4.4	60
38	Geomorphology of the Imhotep region on comet 67P/Churyumov-Gerasimenko from OSIRIS observations. Astronomy and Astrophysics, 2015, 583, A35.	5.1	59
39	Sunset jets observed on comet 67P/Churyumov-Gerasimenko sustained by subsurface thermal lag. Astronomy and Astrophysics, 2016, 586, A7.	5.1	55
40	Comet 67P/Churyumov-Gerasimenko: Constraints on its origin from OSIRIS observations. Astronomy and Astrophysics, 2015, 583, A44.	5.1	53
41	Aswan site on comet 67P/Churyumov-Gerasimenko: Morphology, boulder evolution, and spectrophotometry. Astronomy and Astrophysics, 2016, 592, A69.	5.1	53
42	Acceleration of individual, decimetre-sized aggregates in the lower coma of comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S78-S88.	4.4	52
43	Least-Squares-Based Reaction Control of Space Manipulators. Journal of Guidance, Control, and Dynamics, 2012, 35, 976-986.	2.8	51
44	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. Space Science Reviews, 2020, 216, 1.	8.1	47
45	Evidence of sub-surface energy storage in comet 67P from the outburst of 2016 July 03. Monthly Notices of the Royal Astronomical Society, 2017, 469, s606-s625.	4.4	45
46	An evaluation of ROS-compatible stereo visual SLAM methods on a nVidia Jetson TX2. Measurement: Journal of the International Measurement Confederation, 2019, 140, 161-170.	5.0	45
47	The scattering phase function of comet 67P/Churyumovâ€“Gerasimenko coma as seen from the Rosetta/OSIRIS instrument. Monthly Notices of the Royal Astronomical Society, 2017, 469, S404-S415.	4.4	44
48	Seasonal erosion and restoration of the dust cover on comet 67P/Churyumov-Gerasimenko as observed by OSIRIS onboard Rosetta. Astronomy and Astrophysics, 2017, 604, A114.	5.1	43
49	Dust mass distribution around comet 67P/Churyumovâ€“Gerasimenko determined via parallax measurements using Rosetta's OSIRIS cameras. Monthly Notices of the Royal Astronomical Society, 2017, 469, S276-S284.	4.4	43
50	Variegation of comet 67P/Churyumov-Gerasimenko in regions showing activity. Astronomy and Astrophysics, 2016, 586, A80.	5.1	43
51	Geomorphology and spectrophotometry of Philaeâ€™s landing site on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A41.	5.1	41
52	The pebbles/boulders size distributions on Sais: Rosettaâ€™s final landing site on comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S636-S645.	4.4	40
53	Tensile strength of 67P/Churyumovâ€“Gerasimenko nucleus material from overhangs. Astronomy and Astrophysics, 2018, 611, A33.	5.1	40
54	Large-scale dust jets in the coma of 67P/Churyumov-Gerasimenko as seen by the OSIRIS instrument onboard Rosetta. Astronomy and Astrophysics, 2015, 583, A9.	5.1	39

#	Article	IF	Citations
55	The dust environment of comet 67P/Churyumov-Gerasimenko from Rosetta OSIRIS and VLT observations in the 4.5 to 2.9 AU heliocentric distance range inbound. Astronomy and Astrophysics, 2016, 587, A155.	5.1	39
56	Thermal modelling of water activity on comet 67P/Churyumov-Gerasimenko with global dust mantle and plural dust-to-ice ratio. Monthly Notices of the Royal Astronomical Society, 2017, 469, S295-S311.	4.4	39
57	CHANGES IN THE PHYSICAL ENVIRONMENT OF THE INNER COMA OF 67P/CHURYUMOVâ€“GERASIMENKO WITH DECREASING HELIOCENTRIC DISTANCE. Astronomical Journal, 2016, 152, 130.	4.7	36
58	Novel reaction control techniques for redundant space manipulators: Theory and simulated microgravity tests. Acta Astronautica, 2011, 68, 1712-1721.	3.2	34
59	Gas outflow and dust transport of comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S533-S546.	4.4	34
60	Observations and analysis of a curved jet in the coma of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 588, L3.	5.1	34
61	Morphology and dynamics of the jets of comet 67P/Churyumov-Gerasimenko: Early-phase development. Astronomy and Astrophysics, 2015, 583, A11.	5.1	33
62	Constraints on cometary surface evolution derived from a statistical analysis of 67Pâ€™s topography. Monthly Notices of the Royal Astronomical Society, 2017, 469, S329-S338.	4.4	33
63	Meter-scale thermal contraction crack polygons on the nucleus of comet 67P/Churyumov-Gerasimenko. Icarus, 2018, 301, 173-188.	2.5	33
64	Regional unit definition for the nucleus of comet 67P/Churyumov-Gerasimenko on the SHAP7 model. Planetary and Space Science, 2018, 164, 19-36.	1.7	32
65	Electroactive Elastomeric Actuators for the Implementation of a Deformable Spherical Rover. IEEE/ASME Transactions on Mechatronics, 2011, 16, 50-57.	5.8	30
66	The highly active Anhurâ€“Bes regions in the 67P/Churyumovâ€“Gerasimenko comet: results from OSIRIS/ROSETTA observations. Monthly Notices of the Royal Astronomical Society, 2017, 469, S93-S107.	4.4	30
67	Retrieving Scale on Monocular Visual Odometry Using Low-Resolution Range Sensors. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5875-5889.	4.7	30
68	A mini outburst from the nightside of comet 67P/Churyumov-Gerasimenko observed by the OSIRIS camera on Rosetta. Astronomy and Astrophysics, 2016, 596, A89.	5.1	29
69	Observations of Comet 9P/Tempel 1 around the Deep Impact event by the OSIRIS cameras onboard Rosetta. Icarus, 2007, 187, 87-103.	2.5	27
70	Geologic mapping of the Comet 67P/Churyumovâ€“Gerasimenko's Northern hemisphere. Monthly Notices of the Royal Astronomical Society, 2016, 462, S352-S367.	4.4	27
71	The southern hemisphere of 67P/Churyumov-Gerasimenko: Analysis of the preperihelion size-frequency distribution of boulders â‰¥7 m. Astronomy and Astrophysics, 2016, 592, L2.	5.1	27
72	Rotating dust particles in the coma of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A14.	5.1	26

#	Article	IF	Citations
73	Characterization of the Abydos region through OSIRIS high-resolution images in support of CIVA measurements. Astronomy and Astrophysics, 2016, 585, L1.	5.1	26
74	Decimetre-scaled spectrophotometric properties of the nucleus of comet 67P/Churyumovâ€“Gerasimenko from OSIRIS observations. Monthly Notices of the Royal Astronomical Society, 2016, 462, S287-S303.	4.4	26
75	Long-term survival of surface water ice on comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S582-S597.	4.4	24
76	Method for studying the effects of thermal deformations on optical systems for space application. Applied Optics, 2011, 50, 2836.	2.1	23
77	Orbital elements of the material surrounding comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A16.	5.1	23
78	Sublimation of icy aggregates in the coma of comet 67P/Churyumovâ€“Gerasimenko detected with the OSIRIS cameras on boardRosetta. Monthly Notices of the Royal Astronomical Society, 2016, 462, S57-S66.	4.4	23
79	Geomorphological mapping of comet 67P/Churyumovâ€“Gerasimenkoâ€™s Southern hemisphere. Monthly Notices of the Royal Astronomical Society, 2016, 462, S573-S592.	4.4	23
80	Investigating the physical properties of outbursts on comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S731-S740.	4.4	23
81	Physical properties and dynamical relation of the circular depressions on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 591, A132.	5.1	22
82	The opposition effect of 67P/Churyumovâ€“Gerasimenko on post-perihelion Rosetta images. Monthly Notices of the Royal Astronomical Society, 2017, 469, S550-S567.	4.4	22
83	A three-dimensional modelling of the layered structure of comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S741-S754.	4.4	22
84	Bilobate comet morphology and internal structure controlled by shear deformation. Nature Geoscience, 2019, 12, 157-162.	12.9	22
85	On deviations from free-radial outflow in the inner coma of comet 67P/Churyumovâ€“Gerasimenko. Icarus, 2018, 311, 1-22.	2.5	21
86	Effect of Hypervelocity Impact on Microcellular Ceramic Foams from a Preceramic Polymer. Advanced Engineering Materials, 2003, 5, 802-805.	3.5	20
87	Spectrophotometry of the Khonsu region on the comet 67P/Churyumovâ€“Gerasimenko using OSIRIS instrument images. Monthly Notices of the Royal Astronomical Society, 2016, 462, S274-S286.	4.4	20
88	The phase function and density of the dust observed at comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2835-2839.	4.4	20
89	Models of Rosetta/OSIRIS 67P Dust Coma Phase Function. Astronomical Journal, 2018, 156, 237.	4.7	20
90	The DREAMS Experiment Onboard the Schiaparelli Module of the ExoMars 2016 Mission: Design, Performances and Expected Results. Space Science Reviews, 2018, 214, 1.	8.1	19

#	Article	IF	Citations
91	Coma morphology of comet 67P controlled by insolation over irregular nucleus. Nature Astronomy, 2018, 2, 562-567.	10.1	19
92	Reaction torque control of redundant space robotic systems for orbital maintenance and simulated microgravity tests. Acta Astronautica, 2010, 67, 285-295.	3.2	18
93	Comparative study of water ice exposures on cometary nuclei using multispectral imaging data. Monthly Notices of the Royal Astronomical Society, 2016, 462, S394-S414.	4.4	18
94	Mars rovers localization by matching local horizon to surface digital elevation models. , 2017, , .		18
95	Linking surface morphology, composition, and activity on the nucleus of 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A7.	5.1	18
96	Post-perihelion photometry of dust grains in the coma of 67P Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S195-S203.	4.4	17
97	Uncertainty comparison of three visual odometry systems in different operative conditions. Measurement: Journal of the International Measurement Confederation, 2016, 78, 388-396.	5.0	16
98	The Agilkia boulders/pebbles sizeâ€“frequency distributions: OSIRIS and ROLIS joint observations of 67P surface. Monthly Notices of the Royal Astronomical Society, 2016, 462, S242-S252.	4.4	15
99	An Experimental Comparison of ROS-compatible Stereo Visual SLAM Methods for Planetary Rovers. , 2018, , .		15
100	Exposed bright features on the comet 67P/Churyumovâ€“Gerasimenko: distribution and evolution. Astronomy and Astrophysics, 2018, 613, A36.	5.1	15
101	Surface evolution of the Anhur region on comet 67P/Churyumov-Gerasimenko from high-resolution OSIRIS images. Astronomy and Astrophysics, 2019, 630, A13.	5.1	15
102	Relocalization With Submaps: Multi-Session Mapping for Planetary Rovers Equipped With Stereo Cameras. IEEE Robotics and Automation Letters, 2020, 5, 580-587.	5.1	15
103	Towards the development of a cyber-physical measurement system (CPMS): case study of a bioinspired soft growing robot for remote measurement and monitoring applications. Acta IMEKO (2012), 2021, 10, 104.	0.7	15
104	VIS-NIR Imaging Spectroscopy of Mercury's Surface: SIMBIO-SYS/VIHI Experiment Onboard the BepiColombo Mission. IEEE Transactions on Geoscience and Remote Sensing, 2010, , .	6.3	14
105	Possible interpretation of the precession of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 590, A46.	5.1	14
106	ExoMars Atmospheric Mars Entry and Landing Investigations and Analysis (AMELIA). Space Science Reviews, 2019, 215, 1.	8.1	14
107	The DREAMS experiment on the ExoMars 2016 mission for the study of Martian environment during the dust storm season. , 2014, , .		13
108	Long-term monitoring of comet 67P/Churyumovâ€“Gerasimenkoâ€™s jets with OSIRIS onboard Rosetta. Monthly Notices of the Royal Astronomical Society, 2017, 469, S380-S385.	4.4	13

#	Article	IF	Citations
109	Search for satellites near comet 67P/Churyumov-Gerasimenko using Rosetta/OSIRIS images. Astronomy and Astrophysics, 2015, 583, A19.	5.1	13
110	Modelling of the outburst on 2015 July 29 observed with OSIRIS cameras in the Southern hemisphere of comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S178-S185.	4.4	12
111	Characterization of dust aggregates in the vicinity of the Rosetta spacecraft. Monthly Notices of the Royal Astronomical Society, 2017, 469, S312-S320.	4.4	12
112	Scale Correct Monocular Visual Odometry Using a LiDAR Altimeter. , 2018, , .		12
113	Evaluation of 3D CNN Semantic Mapping for Rover Navigation. , 2020, , .		12
114	Acceleration fields induced by hypervelocity impacts on spacecraft structures. International Journal of Impact Engineering, 2006, 33, 580-591.	5.0	11
115	Opposition effect on comet 67P/Churyumov-Gerasimenko using Rosetta-OSIRIS images. Astronomy and Astrophysics, 2017, 599, A11.	5.1	11
116	Multivariate statistical analysis of OSIRIS/Rosetta spectrophotometric data of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 600, A115.	5.1	11
117	Mars and Moon exploration passing through the European Precision Landing GNC Test Facility. Acta Astronautica, 2008, 63, 74-90.	3.2	10
118	Photometry of dust grains of comet 67P and connection with nucleus regions. Astronomy and Astrophysics, 2016, 588, A59.	5.1	10
119	Design and Validation of a Carbon-Fiber Collapsible Hinge for Space Applications: A Deployable Boom. Journal of Mechanisms and Robotics, 2016, 8, .	2.2	10
120	ExoMars 2016 Schiaparelli Module Trajectory and Atmospheric Profiles Reconstruction. Space Science Reviews, 2018, 214, 1.	8.1	10
121	Analysis of dynamic performances of hasi temperature sensor during the entry in the Titan atmosphere. Planetary and Space Science, 1998, 46, 1325-1332.	1.7	9
122	Comparison of visual odometry systems suitable for planetary exploration. , 2014, , .		9
123	The DREAMS experiment flown on the ExoMars 2016 mission for the study of Martian environment during the dust storm season. Measurement: Journal of the International Measurement Confederation, 2018, 122, 484-493.	5.0	9
124	Multidisciplinary analysis of the Hapi region located on Comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2019, 485, 2139-2154.	4.4	9
125	Diurnal variation of dust and gas production in comet 67P/Churyumov-Gerasimenko at the inbound equinox as seen by OSIRIS and VIRTIS-M on board Rosetta. Astronomy and Astrophysics, 2019, 630, A23.	5.1	9
126	Seasonal variations in source regions of the dust jets on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A17.	5.1	9

#	Article	IF	Citations
127	The Rockyâ€Like Behavior of Cometary Landslides on 67P/Churyumovâ€Gerasimenko. Geophysical Research Letters, 2019, 46, 14336-14346.	4.0	9
128	Rolling dielectric elastomer actuator with bulged cylindrical shape. Smart Materials and Structures, 2010, 19, 127001.	3.5	8
129	Characterization of OSIRIS NAC filters for the interpretation of multispectral data of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A45.	5.1	8
130	Distance determination method of dust particles using Rosetta OSIRIS NAC and WAC data. Planetary and Space Science, 2017, 143, 256-264.	1.7	8
131	Regional surface morphology of comet 67P/Churyumov-Gerasimenko from Rosetta/OSIRIS images: The southern hemisphere (Corrigendum). Astronomy and Astrophysics, 2017, 598, C2.	5.1	8
132	Geomorphological and spectrophotometric analysis of Seth's circular niches on comet 67P/Churyumovâ€“Gerasimenko using OSIRIS images. Monthly Notices of the Royal Astronomical Society, 2017, 469, S238-S251.	4.4	8
133	MiniVO: Minimalistic Range Enhanced Monocular System for Scale Correct Pose Estimation. IEEE Sensors Journal, 2020, 20, 11874-11886.	4.7	8
134	Accuracy Analysis of a Pointing Mechanism for Communication Applications. IEEE Transactions on Instrumentation and Measurement, 2009, 58, 3499-3509.	4.7	7
135	Uncertainty evaluation of a vision system for pose measurement of a spacecraft with fiducial markers. , 2015, , .		7
136	SPARTANS - A cooperating spacecraft testbed for autonomous proximity operations experiments. , 2015, , .		7
137	A comparison of monocular and stereo visual FastSLAM implementations. , 2016, , .		7
138	Monocular visual odometry aided by a low resolution time of flight camera. , 2017, , .		7
139	A preliminary investigation into the design of pressure cushions and their potential applications for forearm robotic orthoses. BioMedical Engineering OnLine, 2017, 16, 54.	2.7	7
140	Thermophysics of fractures on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 608, A121.	5.1	7
141	Robust Visual Localization for Hopping Rovers on Small Bodies. , 2018, , .		7
142	The big lobe of 67P/Churyumovâ€“Gerasimenko comet: morphological and spectrophotometric evidences of layering as from OSIRIS data. Monthly Notices of the Royal Astronomical Society, 2018, 479, 1555-1568.	4.4	7
143	Experimental evaluation of a camera rig extrinsic calibration method based on retro-reflective markers detection. Measurement: Journal of the International Measurement Confederation, 2019, 140, 47-55.	5.0	7
144	Pronounced morphological changes in a southern active zone on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A8.	5.1	7

#	Article	IF	Citations
145	The backscattering ratio of comet 67P/Churyumov-Gerasimenko dust coma as seen by OSIRIS onboard Rosetta. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	6
146	Rosetta/OSIRIS observations of the 67P nucleus during the April 2016 flyby: high-resolution spectrophotometry. Astronomy and Astrophysics, 2019, 630, A9.	5.1	6
147	Lutetia surface reconstruction and uncertainty analysis. Planetary and Space Science, 2012, 71, 64-72.	1.7	5
148	Korus â€" A drone project for visual and IR imaging. , 2017, , .		5
149	Metrological Characterization of a Vision-Based System for Relative Pose Measurements with Fiducial Marker Mapping for Spacecrafts. Robotics, 2018, 7, 43.	3.5	5
150	Novel Automated Production System for the Footwear Industry. IFIP Advances in Information and Communication Technology, 2013, , 542-549.	0.7	4
151	Camera Rig Extrinsic Calibration Using a Motion Capture System. , 2018, , .		4
152	Scientific objectives of JANUS Instrument onboard JUICE mission and key technical solutions for its Optical Head. , 2019, , .		4
153	Quantitative analysis of isolated boulder fields on comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A15.	5.1	4
154	Design of a user-friendly control system for planetary rovers with CPS feature. , 2021, , .		4
155	Optical performance evaluation of the high spatial resolution imaging camera of BepiColombo space mission. Optics and Laser Technology, 2021, 141, 107172.	4.6	4
156	Viewpoint Selection for Rover Relative Pose Estimation Driven by Minimal Uncertainty Criteria. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	4.7	4
157	Calibration of a vision-based system for displacement measurement in planetary exploration space missions. Journal of Physics: Conference Series, 2010, 238, 012031.	0.4	3
158	Development of long deployable dipole antennas for Sounder Radars in ThalesAleniaSpace-Italia. , 2013, , .		3
159	Uncertainty analysis of a stereo system performing ego-motion measurements in a simulated planetary environment. Journal of Physics: Conference Series, 2013, 459, 012056.	0.4	3
160	The JANUS camera onboard JUICE mission for Jupiter system optical imaging. Proceedings of SPIE, 2014, , .	0.8	3
161	Numerical study of lander effects on DREAMS scientific package measurements. , 2014, , .		3
162	MarsTEM: The temperature sensor of the DREAMS package onboard Exomars2016. , 2014, , .		3

#	Article	IF	Citations
163	Attitude Module characterization of the Satellite Formation Flight testbed. , 2014, , .		3
164	Calibration of extrinsic parameters of a hybrid vision system for navigation comprising a very low resolution Time-of-Flight camera. , 2017, , .		3
165	Rover Relative Localization Testing in Martian Relevant Environment. , 2019, , .		3
166	Simulation Framework for Mobile Robots in Planetary-Like Environments. , 2020, , .		3
167	Effect of rolling shutter on visual odometry systems suitable for planetary exploration. , 2016, , .		2
168	Instrument workstation for the EGSE of the Near Infrared Spectro-Photometer instrument (NISP) of the EUCLID mission. , 2016, , .		2
169	Renovating Project Management: Knowledge Personalization and Sharing. Knowledge Management and Organizational Learning, 2017, , 131-153.	0.5	2
170	Simulation of a sounding rocket flight's dynamic. , 2017, , .		2
171	Spectrophotometric variegation of the layering in comet 67P/Churyumov-Gerasimenko as seen by OSIRIS. Astronomy and Astrophysics, 2019, 630, A16.	5.1	2
172	Occupancy grid mapping for rover navigation based on semantic segmentation. Acta IMEKO (2012), 2021, 10, 155.	0.7	2
173	Adaptive-randomised self-calibration of electro-mechanical shutters for space imaging. Mechanical Systems and Signal Processing, 2006, 20, 2305-2320.	8.0	1
174	Observing Mercury: from Galileo to the stereo camera on the BepiColombo mission. Proceedings of the International Astronomical Union, 2010, 6, 213-218.	0.0	1
175	A method for studying the effects of thermal deformations on optical systems for space application. Proceedings of SPIE, 2010, , .	0.8	1
176	A preliminary optical design for the JANUS camera of ESA's space mission JUICE. , 2014, , .		1
177	Position and orientation measurement of a fast moving multibody system in ground tests. , 2014, , .		1
178	Determination and uncertainty analysis of mercury libration using BepiColombo HRIC images. , 2014, , .		1
179	Optical flow sensor based localization system for a cooperating spacecraft testbed. , 2015, , .		1
180	A sounding rocket as a test bench for cost effective measurements: Development of a sounding rocket demonstrator test bench for aerospace technologies and atmospheric measurements. , 2015, , .		1

#	Article	IF	Citations
181	Optical design and stray light analysis for the JANUS camera of the JUICE space mission. , 2015, , .		1
182	Multiphysics modelling of MarsTEM shield. , 2015, , .		1
183	Visual odometry system performance for different landmark average distances. , 2016, , .		1
184	Autonomous re-entry system technology demonstrator for sounding rockets: Development of an automated control system as recovery device for precise landing of sounding rockets. , 2016, , .		1
185	The ExoMars DREAMS scientific data archive. , 2016, , .		1
186	Detailed design and first tests of the application software for the instrument control unit of Euclid-NISP. Proceedings of SPIE, 2016, , .	0.8	1
187	The DREAMS experiment flown on the ExoMars 2016 mission for the study of Martian environment during the dust storm season. , 2017, , .		1
188	From the editors of the special issue on selected methods and instrumentation of metrology for aerospace. IEEE Aerospace and Electronic Systems Magazine, 2018, 33, 4-5.	1.3	1
189	Phase-curve analysis of comet 67P/Churyumov-Gerasimenko at small phase angles. Astronomy and Astrophysics, 2019, 630, A11.	5.1	1
190	Laboratory characterization of HYPSOS, a novel 4D remote sensing instrument. , 2021, , .		1
191	The international package for scientific experiments (IPSE) for Mars surveyor program. Advances in Space Research, 2001, 28, 1209-1218.	2.6	0
192	IPSE: The Italian package for scientific experiments on Mars. Planetary and Space Science, 2004, 52, 41-45.	1.7	0
193	VIS-NIR imaging spectroscopy of the Mercury's surface: SIMBIO-SYS/VIHI experiment onboard the Bepi Colombo mission. , 2009, , .		0
194	Comparison between two modern uncertainty expression and propagation approaches. Journal of Physics: Conference Series, 2010, 238, 012033.	0.4	0
195	Effects of thermal deformations on the sensitivity of optical systems for space application. , 2010, , .		0
196	The electrical ground support equipment for the ExoMars 2016 DREAMS scientific instrument. , 2014, , .		0
197	Data handling equipment for payload sub-systems. , 2014, , .		0
198	The EGSE for the DREAMS payload onboard the ExoMars 2016 space mission. , 2014, , .		0

#	Article	IF	Citations
199	MarsTEM field test in Mars analog environment. , 2015, , .		0
200	Development of a camera-aided optical mouse sensors based localization system for a free floating planar robot. , 2016, , .		0
201	Improving a sounding rocket technology demonstrator for experimental measurements. , 2016, , .		0
202	Trade-off between TMA and RC configurations for JANUS camera. Proceedings of SPIE, 2016, , .	0.8	0
203	EGSE customization for the Euclid NISP Instrument AIV/AIT activities. Proceedings of SPIE, 2016, , .	0.8	0
204	Stereo visual odometry failure recovery using monocular techniques. , 2017, , .		0
205	MarsTEM sensor simulations in Martian dust environment. , 2017, , .		0
206	MarsTEM sensor simulations in Martian dust environment. Measurement: Journal of the International Measurement Confederation, 2018, 122, 453-458.	5.0	0
207	Tensile strength of 67P/Churyumov-Gerasimenko nucleus material from overhangs (Corrigendum). Astronomy and Astrophysics, 2018, 614, C2.	5.1	0
208	Uncertainty evaluation of vision-based approaches for distance measurement of a tether tip-mass. , 2019, , .		0
209	Analysis of Ganymede rotational state using JANUS telescope. , 2019, , .		0
210	Simulation of Images and Digital Terrain Models for the Mission BepiColombo. Aerotecnica Missili & Spazio, 2021, 100, 161-169.	0.9	0
211	Effects of thermal deformation on optical instruments for space application. , 2017, , .		0
212	A novel optical design for the stereo channel of the imaging system SIMBIOSYS for the BepiColombo ESA mission. , 2017, , .		0
213	Preliminary calibration results of the wide angle camera of the imaging instrument OSIRIS for the Rosetta mission. , 2017, , .		0
214	Preliminary optical design of the stereo channel of the imaging system simbiosys for the BepiColombo ESA mission. , 2017, , .		0
215	Position Measurement and Uncertainty Analysis for the Shutter Mechanism Mounted on the Rosetta Mission. , 2018, , .		0
216	A Multimission Method for the Reconstruction of Gamma-ray Events on Silicon Tracker Pair Telescopes. Astrophysical Journal, 2022, 928, 141.	4.5	0