Giancarlo Bellucci

List of Publications by Year
in descending order

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158 papers	9,765 citations	53751 45 h-index	36008 97 g-index
177 all docs	177 docs citations	177 times ranked	5200 citing authors

#	Article	IF	Citations
1	Vertical distribution of dust in the martian atmosphere: OMEGA/MEx limb observations. Icarus, 2022, 371, 114702.	1.1	6
2	Removal of straylight from ExoMars NOMAD-UVIS observations. Planetary and Space Science, 2022, 218, 105432.	0.9	3
3	Calibration of NOMAD on ExoMars Trace Gas Orbiter: Part 3 - LNO validation and instrument stability. Planetary and Space Science, 2022, 218, 105399.	0.9	4
4	Calibration of NOMAD on ESA's ExoMars Trace Gas Orbiter: Part 1 â€“ The Solar Occultation channel. Planetary and Space Science, 2022, 218, 105411.	0.9	8
5	Vertical Aerosol Distribution and Mesospheric Clouds From ExoMars UVIS. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	6
6	Martian CO₂ Ice Observation at High Spectral Resolution With ExoMars/TGO NOMAD. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	5
7	Calibration of the NOMAD-UVIS data. Planetary and Space Science, 2022, 218, 105504.	0.9	5
8	Variations in Vertical CO/CO₂ Profiles in the Martian Mesosphere and Lower Thermosphere Measured by the ExoMars TGO/NOMAD: Implications of Variations in Eddy Diffusion Coefficient. Geophysical Research Letters, 2022, 49, .	1.5	7
9	Density and Temperature of the Upper Mesosphere and Lower Thermosphere of Mars Retrieved From the OI 557.7Ânm Dayglow Measured by TGO/NOMAD. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	6
10	The Mars Oxygen Visible Dayglow: A Martian Year of NOMAD/UVIS Observations. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	2
11	Planetâ€Wide Ozone Destruction in the Middle Atmosphere on Mars During Global Dust Storm. Geophysical Research Letters, 2022, 49, .	1.5	7
12	The Deuterium Isotopic Ratio of Water Released From the Martian Caps as Measured With TGO/NOMAD. Geophysical Research Letters, 2022, 49, .	1.5	15
13	Retrieval of the water ice column and physical properties of water-ice clouds in the martian atmosphere using the OMEGA imaging spectrometer. Icarus, 2021, 353, 113229.	1.1	8
14	Comprehensive investigation of Mars methane and organics with ExoMars/NOMAD. Icarus, 2021, 357, 114266.	1.1	27
15	Machine learning for automatic identification of new minor species. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 259, 107361.	1.1	2
16	Transient HCl in the atmosphere of Mars. Science Advances, 2021, 7, .	4.7	37
17	Water heavily fractionated as it ascends on Mars as revealed by ExoMars/NOMAD. Science Advances, 2021, 7, .	4.7	31
18	First Observation of the Oxygen 630Ânm Emission in the Martian Dayglow. Geophysical Research Letters, 2021, 48, e2020GL092334.	1.5	8

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19	Probing the Atmospheric Cl Isotopic Ratio on Mars: Implications for Planetary Evolution and Atmospheric Chemistry. Geophysical Research Letters, 2021, 48, e2021GL092650.	1.5	7
20	Annual Appearance of Hydrogen Chloride on Mars and a Striking Similarity With the Water Vapor Vertical Distribution Observed by TGO/NOMAD. Geophysical Research Letters, 2021, 48, e2021GL092506.	1.5	15
21	The climatology of carbon monoxide on Mars as observed by NOMAD nadir-geometry observations. Icarus, 2021, 362, 114404.	1.1	11
22	Martian water loss to space enhanced by regional dust storms. Nature Astronomy, 2021, 5, 1036-1042.	4.2	40
23	ExoMars TGO/NOMADâ€UVIS Vertical Profiles of Ozone: 2. The Highâ€Altitude Layers of Atmospheric Ozone. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006834.	1.5	14
24	A Global and Seasonal Perspective of Martian Water Vapor From ExoMars/NOMAD. Journal of Geophysical Research E: Planets, 2021, 126, .	1.5	8
25	ExoMars TGO/NOMADâ€UVIS Vertical Profiles of Ozone: 1. Seasonal Variation and Comparison to Water. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006837.	1.5	18
26	First Detection and Thermal Characterization of Terminator CO₂Ice Clouds With ExoMars/NOMAD. Geophysical Research Letters, 2021, 48, .	1.5	12
27	Calibration of NOMAD on ESA's ExoMars Trace Gas Orbiter: Part 2 â€“ The Limb, Nadir and Occultation (LNO) channel. Planetary and Space Science, 2021, , 105410.	0.9	3
28	Strong Variability of Martian Water Ice Clouds During Dust Storms Revealed From ExoMars Trace Gas Orbiter/NOMAD. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006250.	1.5	39
29	Detection of green line emission in the dayside atmosphere of Mars from NOMAD-TGO observations. Nature Astronomy, 2020, 4, 1049-1052.	4.2	13
30	Infrared detection of aliphatic organics on a cometary nucleus. Nature Astronomy, 2020, 4, 500-505.	4.2	41
31	The changing temperature of the nucleus of comet 67P induced by morphological and seasonal effects. Nature Astronomy, 2019, 3, 649-658.	4.2	34
32	No detection of methane on Mars from early ExoMars Trace Gas Orbiter observations. Nature, 2019, 568, 517-520.	13.7	111
33	Martian dust storm impact on atmospheric H2O and D/H observed by ExoMars Trace Gas Orbiter. Nature, 2019, 568, 521-525.	13.7	107
34	Water Vapor Vertical Profiles on Mars in Dust Storms Observed by TGO/NOMAD. Journal of Geophysical Research E: Planets, 2019, 124, 3482-3497.	1.5	88
35	Methane on Mars: New insights into the sensitivity of CH4 with the NOMAD/ExoMars spectrometer through its first in-flight calibration. Icarus, 2019, 321, 671-690.	1.1	32
36	Properties of a Martian local dust storm in Atlantis Chaos from OMEGA/MEX data. Icarus, 2018, 300, 1-11.	1.1	7

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37	A chemical survey of exoplanets with ARIEL. Experimental Astronomy, 2018, 46, 135-209.	1.6	249
38	NOMAD, an Integrated Suite of Three Spectrometers for the ExoMars Trace Gas Mission: Technical Description, Science Objectives and Expected Performance. Space Science Reviews, 2018, 214, 1.	3.7	95
39	The DREAMS Experiment Onboard the Schiaparelli Module of the ExoMars 2016 Mission: Design, Performances and Expected Results. Space Science Reviews, 2018, 214, 1.	3.7	19
40	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.	2.5	9
41	Geology and mineralogy of the Auki Crater, Tyrrhena Terra, Mars: A possible post impact-induced hydrothermal system. Icarus, 2017, 281, 228-239.	1.1	23
42	NOMAD spectrometer on the ExoMars trace gas orbiter mission: part 2â€"design, manufacturing, and testing of the ultraviolet and visible channel. Applied Optics, 2017, 56, 2771.	2.1	40
43	Optical and radiometric models of the NOMAD instrument part II: the infrared channels - SO and LNO. Optics Express, 2016, 24, 3790.	1.7	25
44	Seasonal exposure of carbon dioxide ice on the nucleus of comet 67P/Churyumov-Gerasimenko. Science, 2016, 354, 1563-1566.	6.0	61
45	Expected performances of the NOMAD/ExoMars instrument. Planetary and Space Science, 2016, 124, 94-104.	0.9	31
46	Saturnâ€™s icy satellites investigated by Cassini-VIMS. IV. Daytime temperature maps. Icarus, 2016, 271, 292-313.	1.1	23
47	Exposed water ice on the nucleus of comet 67P/Churyumovâ€“Gerasimenko. Nature, 2016, 529, 368-372.	13.7	104
48	Optical and radiometric models of the NOMAD instrument part I: the UVIS channel. Optics Express, 2015, 23, 30028.	1.7	26
49	Photometric properties of comet 67P/Churyumov-Gerasimenko from VIRTIS-M onboard Rosetta. Astronomy and Astrophysics, 2015, 583, A31.	2.1	71
50	The EChO science case. Experimental Astronomy, 2015, 40, 329-391.	1.6	31
51	MicroMIMA, a miniaturized spectrometer for planetary observation. , 2015, , .		2
52	The organic-rich surface of comet 67P/Churyumov-Gerasimenko as seen by VIRTIS/Rosetta. Science, 2015, 347, aaa0628.	6.0	293
53	Removal of atmospheric features in near infrared spectra by means of principal component analysis and target transformation on Mars: I. Method. Icarus, 2015, 253, 51-65.	1.1	13
54	NOMAD spectrometer on the ExoMars trace gas orbiter mission: part 1â€"design, manufacturing and testing of the infrared channels. Applied Optics, 2015, 54, 8494.	2.1	58

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55	Science objectives and performances of NOMAD, a spectrometer suite for the ExoMars TGO mission. Planetary and Space Science, 2015, 119, 233-249.	0.9	77
56	The visible and near infrared module of EChO. Experimental Astronomy, 2015, 40, 753-769.	1.6	0
57	Iron mineralogy of the martian surface with OMEGA spectrometer. , 2014, , .		0
58	An improved version of the Visible and Near Infrared (VNIR) spectrometer of EChO. Proceedings of SPIE, 2014, , .	0.8	0
59	Preparing EChO space mission: laboratory simulation of planetary atmospheres. , 2014, , .		0
60	The DREAMS experiment on the ExoMars 2016 mission for the study of Martian environment during the dust storm season. , 2014, , .		13
61	Modeling VIRTIS/VEX O₂(a1âˆ†g) nightglow profiles affected by the propagation of gravity waves in the Venus upper mesosphere. Journal of Geophysical Research E: Planets, 2014, 119, 2300-2316.	1.5	15
62	A systematic mapping procedure based on the Modified Gaussian Model to characterize magmatic units from olivine/pyroxenes mixtures: Application to the Syrtis Major volcanic shield on Mars. Journal of Geophysical Research E: Planets, 2013, 118, 1632-1655.	1.5	33
63	MicroMIMA FTS: design of spectrometer for Mars atmosphere investigation. Proceedings of SPIE, 2013, , .	0.8	10
64	Gravity waves mapped by the OMEGA/MEX instrument through O₂ dayglow at 1.27 Î¼m: Data analysis and atmospheric modeling. Journal of Geophysical Research, 2012, 117, .	3.3	21
65	Iron mineralogy of the surface of Mars from the 1 Î¼m band spectral properties. Journal of Geophysical Research, 2012, 117, .	3.3	13
66	Global maps of anhydrous minerals at the surface of Mars from OMEGA/MEx. Journal of Geophysical Research, 2012, 117, .	3.3	133
67	AOST: Fourier spectrometer for studying mars and phobos. Solar System Research, 2012, 46, 31-40.	0.3	11
68	Oxygen airglow emission on Venus and Mars as seen by VIRTIS/VEX and OMEGA/MEX imaging spectrometers. Planetary and Space Science, 2011, 59, 981-987.	0.9	9
69	The Surface Composition and Temperature of Asteroid 21 Lutetia As Observed by Rosetta/VIRTIS. Science, 2011, 334, 492-494.	6.0	110
70	Eclipse reappearances of Io: Time-resolved spectroscopy (1.9â€“4.2Î¼m). Icarus, 2010, 205, 516-527.	1.1	7
71	The spectrum of a Saturn ring spoke from Cassini/VIMS. Geophysical Research Letters, 2010, 37, .	1.5	6
72	Martian atmosphere as observed by VIRTISâ€M on Rosetta spacecraft. Journal of Geophysical Research, 2010, 115, .	3.3	10

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73	VIMS spectral mapping observations of Titan during the Cassini prime mission. Planetary and Space Science, 2009, 57, 1950-1962.	0.9	28
74	Saturn's Titan: Surface change, ammonia, and implications for atmospheric and tectonic activity. Icarus, 2009, 199, 429-441.	1.1	69
75	Mapping of water frost and ice at low latitudes on Mars. Icarus, 2009, 203, 406-420.	1.1	39
76	O2 1.27Î¼m emission maps as derived from OMEGA/MEx data. Icarus, 2009, 204, 499-511.	1.1	21
77	Photometric changes on Saturn's Titan: Evidence for active cryovolcanism. Geophysical Research Letters, 2009, 36, .	1.5	38
78	VIRTIS: An Imaging Spectrometer for the ROSETTA Mission. , 2009, , 563-585.		3
79	Hydrocarbons on Saturn's satellites Iapetus and Phoebe. Icarus, 2008, 193, 334-343.	1.1	86
80	Identification of spectral units on Phoebe. Icarus, 2008, 193, 233-251.	1.1	32
81	Distribution of icy particles across Enceladus' surface as derived from Cassini-VIMS measurements. Icarus, 2008, 193, 407-419.	1.1	64
82	Dust haze in Valles Marineris observed by HRSC and OMEGA on board Mars Express. Journal of Geophysical Research, 2008, 113, .	3.3	18
83	MIMA, a miniaturized infrared spectrometer for Mars ground exploration: Part III. Thermomechanical design. , 2007, , .		6
84	MIMA, a miniaturized Fourier infrared spectrometer for Mars ground exploration: Part I. Concept and expected performance. , 2007, , .		5
85	MIMA, a miniaturized Fourier spectrometer for Mars ground exploration: Part II. Optical design. Proceedings of SPIE, 2007, , .	0.8	4
86	Mars Express High Resolution Stereo Camera spectrophotometric data: Characteristics and science analysis. Journal of Geophysical Research, 2007, 112, .	3.3	23
87	Martian surface mineralogy from Observatoire pour la MinÃ©ralogie, l'Eau, les Glaces et l'ActivitÃ© on board the Mars Express spacecraft (OMEGA/MEx): Global mineral maps. Journal of Geophysical Research, 2007, 112, .	3.3	191
88	Coordinated analyses of orbital and Spirit Rover data to characterize surface materials on the cratered plains of Gusev Crater, Mars. Journal of Geophysical Research, 2007, 112, .	3.3	29
89	Saturn's icy satellites investigated by Cassini-VIMS. Icarus, 2007, 186, 259-290.	1.1	62
90	Evidence for enhanced hydration on the northern flank of Olympus Mons, Mars. Icarus, 2007, 192, 361-377.	1.1	7

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91	South Pole of Mars: Nature and composition of the icy terrains from Mars Express OMEGA observations. Planetary and Space Science, 2007, 55, 113-133.	0.9	60
92	Scientific goals for the observation of Venus by VIRTIS on ESA/Venus express mission. Planetary and Space Science, 2007, 55, 1653-1672.	0.9	155
93	Surface composition of Hyperion. Nature, 2007, 448, 54-56.	13.7	56
94	A dynamic upper atmosphere of Venus as revealed by VIRTIS on Venus Express. Nature, 2007, 450, 641-645.	13.7	95
95	South-polar features on Venus similar to those near the north pole. Nature, 2007, 450, 637-640.	13.7	110
96	Virtis: An Imaging Spectrometer for the Rosetta Mission. Space Science Reviews, 2007, 128, 529-559.	3.7	181
97	Nature and origin of the hematite-bearing plains of Terra Meridiani based on analyses of orbital and Mars Exploration rover data sets. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	144
98	Observations in the Saturn system during approach and orbital insertion, with Cassini's visual and infrared mapping spectrometer (VIMS). Astronomy and Astrophysics, 2006, 446, 707-716.	2.1	57
99	Results of measurements with the Planetary Fourier Spectrometer onboard Mars Express: Clouds and dust at the end of southern summer. A comparison with OMEGA images. Cosmic Research, 2006, 44, 305-316.	0.2	10
100	OMEGA/Mars Express: Visual channel performances and data reduction techniques. Planetary and Space Science, 2006, 54, 675-684.	0.9	28
101	The planetary fourier spectrometer (PFS) onboard the European Venus Express mission. Planetary and Space Science, 2006, 54, 1298-1314.	0.9	39
102	High-resolution CASSINI-VIMS mosaics of Titan and the icy Saturnian satellites. Planetary and Space Science, 2006, 54, 1146-1155.	0.9	24
103	Photometric properties of Titan's surface from Cassini VIMS: Relevance to titan's hemispherical albedo dichotomy and surface stability. Planetary and Space Science, 2006, 54, 1540-1551.	0.9	13
104	Global Mineralogical and Aqueous Mars History Derived from OMEGA/Mars Express Data. Science, 2006, 312, 400-404.	6.0	1,395
105	THE ATMOSPHERES OF SATURN AND TITAN IN THE NEAR-INFRARED: FIRST RESULTS OF CASSINI/VIMS. Earth, Moon and Planets, 2006, 96, 119-147.	0.3	57
106	Composition and Physical Properties of Enceladus' Surface. Science, 2006, 311, 1425-1428.	6.0	199
107	Cassini Visual and Infrared Mapping Spectrometer Observations of Iapetus: Detection of CO 2. Astrophysical Journal, 2005, 622, L149-L152.	1.6	94
108	A 5-Micron-Bright Spot on Titan: Evidence for Surface Diversity. Science, 2005, 310, 92-95.	6.0	78

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110	Release of volatiles from a possible cryovolcano from near-infrared imaging of Titan. Nature, 2005, 435, 786-789.	13.7	208
111	Phyllosilicates on Mars and implications for early martian climate. Nature, 2005, 438, 623-627.	13.7	825
112	Mars Surface Diversity as Revealed by the OMEGA/Mars Express Observations. Science, 2005, 307, 1576-1581.	6.0	842
113	Spectral Reflectance and Morphologic Correlations in Eastern Terra Meridiani, Mars. Science, 2005, 307, 1591-1594.	6.0	160
114	Olivine and Pyroxene Diversity in the Crust of Mars. Science, 2005, 307, 1594-1597.	6.0	348
115	The Evolution of Titan's Mid-Latitude Clouds. Science, 2005, 310, 474-477.	6.0	139
116	Perennial water ice identified in the south polar cap of Mars. Nature, 2004, 428, 627-630.	13.7	279
117	The Cassini Visual And Infrared Mapping Spectrometer (Vims) Investigation. Space Science Reviews, 2004, 115, 111-168.	3.7	369
118	Cassini/VIMS observation of an Io post-eclipse brightening event. Icarus, 2004, 172, 141-148.	1.1	10
119	Cassini VIMS observations of the Galilean satellites including the VIMS calibration procedure. Icarus, 2004, 172, 104-126.	1.1	61
120	Principal components analysis of Jupiter VIMS spectra. Advances in Space Research, 2004, 34, 1640-1646.	1.2	4
121	The Cassini Visual and Infrared Mapping Spectrometer (VIMS) Investigation. , 2004, , 111-168.		6
122	Observations with the Visual and Infrared Mapping Spectrometer (VIMS) during Cassini's flyby of Jupiter. Icarus, 2003, 164, 461-470.	1.1	48
123	Cassini-VIMS at Jupiter: solar occultation measurements using Io. Icarus, 2003, 166, 75-84.	1.1	7
124	Mars: Mapping surface units by means of statistical analysis of TES spectra. Astronomy and Astrophysics, 2003, 402, 373-381.	2.1	2
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126	MARS-IRMA: in-situ infrared microscope analysis of Martian soil and rock samples.. Advances in Space Research, 2001, 28, 1219-1224.	1.2	5

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128	Imaging spectroscopy of selected regional dark mantle deposits of the Moon. Planetary and Space Science, 2001, 49, 487-500.	0.9	9
129	Detection of Sub-Micron Radiation from the Surface of Venus by Cassini/VIMS. Icarus, 2000, 148, 307-311.	1.1	62
130	Imaging spectroscopy of planetary surfaces: Improving the spatial contrast. Astronomy and Astrophysics, 1999, 134, 187-192.	2.1	0
131	Imaging spectroscopy of the moon: data reduction-analysis techniques and compositional variability of the Mare Serenitatis-Tranquillitatis region. Planetary and Space Science, 1998, 46, 377-390.	0.9	7
132	Spectral diversity and compositional implications of Montes Haemus and Serenitatis/Tranquillitatis region on the moon from imaging spectroscopy data. Planetary and Space Science, 1998, 46, 479-490.	0.9	0
133	Atmospheric studies with spectro-imaging : prospects for the vims experiment on Cassini. Planetary and Space Science, 1998, 46, 1305-1314.	0.9	0
134	Virtis : an imaging spectrometer for the rosetta mission. Planetary and Space Science, 1998, 46, 1291-1304.	0.9	72
135	An imaging spectrometer operating in the visible near infrared for the study of planetary surfaces. Planetary and Space Science, 1998, 46, 1277-1290.	0.9	2
136	<title>Image sharpening by means of spectral unmixing: comparison among different techniques</title>. , 1998, , .		0
137	Imaging Earth's magnetosphere: Measuring energy, mass, and direction of energetic neutral atoms with the ISENA instrument. Geophysical Monograph Series, 1998, , 269-274.	0.1	1
138	Imaging spectroscopy of the Moon: A study of the Aristarchus region. Advances in Space Research, 1997, 19, 1535-1538.	1.2	0
139	INTERBALL magnetotail boundary case studies. Advances in Space Research, 1997, 20, 999-1015.	1.2	10
140	Spectroscopy Of Comet Hale-Bopp In The Visible/Near Infrared: Modeling Of Dust Properties. Earth, Moon and Planets, 1997, 78, 305-311.	0.3	7
141	ASPI experiment: measurements of fields and waves on board the INTERBALL-1 spacecraft. Annales Geophysicae, 1997, 15, 514-527.	0.6	104
142	Regional mapping of planetary surfaces with imaging spectroscopy. Planetary and Space Science, 1997, 45, 1371-1381.	0.9	4
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144	<title>VIRTIS: Visible Infrared Thermal Imaging Spectrometer for the Rosetta mission</title>. , 1996, , .		17

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146	The Renazzo meteorite. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1993, 16, 775-781.	0.2	2
147	Planetary Fourier spectrometer: An interferometer for atmospheric studies on board Mars 94 mission. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1993, 16, 575-588.	0.2	4
148	An imaging spectrometer for planetary studies. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1993, 16, 589-595.	0.2	1
149	VNIR: Visible/near-infrared spectrometer for the Mars 94 mission. , 1993, , .		2
150	Multispectral imaging of Mars: ISM results. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1992, 15, 1113-1119.	0.2	0
151	Evaluation of aPbTe detector for infrared imaging purposes. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1992, 15, 1121-1128.	0.2	2
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154	Jets physics in comet P/Halley. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1991, 14, 319-334.	0.2	2
155	Visible and infrared mapping spectrometer for exploration of comets, asteroids, and the saturnian system of rings and moons. International Journal of Imaging Systems and Technology, 1991, 3, 108-120.	2.7	7
156	The experiment OPERA for the mission Interball. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1990, 13, 155-161.	0.2	0
157	Study of star extinction beyond comet P/Halley. Il Nuovo Cimento Della SocietÃ Italiana Di Fisica C, 1990, 13, 223-230.	0.2	0
158	Imaging of comet Halley from Catania observatory using a CCD and Schmidt plates. Advances in Space Research, 1985, 5, 263-266.	1.2	1