

Fabrizio Capaccioni

List of Publications by Year in descending order

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197
papers

12,038
citations

26630

56
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28297

105
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208
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208
docs citations

208
times ranked

5236
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Mineralogical and Aqueous Mars History Derived from OMEGA/Mars Express Data. <i>Science</i> , 2006, 312, 400-404.	12.6	1,395
2	Mars Surface Diversity as Revealed by the OMEGA/Mars Express Observations. <i>Science</i> , 2005, 307, 1576-1581.	12.6	842
3	Phyllosilicates on Mars and implications for early martian climate. <i>Nature</i> , 2005, 438, 623-627.	27.8	825
4	The Cassini Visual And Infrared Mapping Spectrometer (Vims) Investigation. <i>Space Science Reviews</i> , 2004, 115, 111-168.	8.1	369
5	The organic-rich surface of comet 67P/Churyumov-Gerasimenko as seen by VIRTIS/Rosetta. <i>Science</i> , 2015, 347, aaa0628.	12.6	293
6	Ammoniated phyllosilicates with a likely outer Solar System origin on (1) Ceres. <i>Nature</i> , 2015, 528, 241-244.	27.8	276
7	Spectroscopic Characterization of Mineralogy and Its Diversity Across Vesta. <i>Science</i> , 2012, 336, 697-700.	12.6	240
8	Bright carbonate deposits as evidence of aqueous alteration on (1) Ceres. <i>Nature</i> , 2016, 536, 54-57.	27.8	240
9	Release of volatiles from a possible cryovolcano from near-infrared imaging of Titan. <i>Nature</i> , 2005, 435, 786-789.	27.8	208
10	Composition and Physical Properties of Enceladus' Surface. <i>Science</i> , 2006, 311, 1425-1428.	12.6	199
11	The diurnal cycle of water ice on comet 67P/Churyumov-Gerasimenko. <i>Nature</i> , 2015, 525, 500-503.	27.8	199
12	Virtis: An Imaging Spectrometer for the Rosetta Mission. <i>Space Science Reviews</i> , 2007, 128, 529-559.	8.1	181
13	Distribution of phyllosilicates on the surface of Ceres. <i>Science</i> , 2016, 353, .	12.6	159
14	Compositional maps of Saturn's moon Phoebe from imaging spectroscopy. <i>Nature</i> , 2005, 435, 66-69.	27.8	155
15	Localized aliphatic organic material on the surface of Ceres. <i>Science</i> , 2017, 355, 719-722.	12.6	152
16	Dark material on Vesta from the infall of carbonaceous volatile-rich material. <i>Nature</i> , 2012, 491, 83-86.	27.8	151
17	Evidence for the formation of comet 67P/Churyumov-Gerasimenko through gravitational collapse of a bound clump of pebbles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S755-S773.	4.4	146
18	The Evolution of Titan's Mid-Latitude Clouds. <i>Science</i> , 2005, 310, 474-477.	12.6	139

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19	Refractory and semi-volatile organics at the surface of comet 67P/Churyumov-Gerasimenko: Insights from the VIRTIS/Rosetta imaging spectrometer. <i>Icarus</i> , 2016, 272, 32-47.	2.5	127
20	Dawn Mission to Vesta and Ceres. <i>Earth, Moon and Planets</i> , 2007, 101, 65-91.	0.6	125
21	DETECTION OF WIDESPREAD HYDRATED MATERIALS ON VESTA BY THE VIR IMAGING SPECTROMETER ON BOARD THE <i>DAWN</i> MISSION. <i>Astrophysical Journal Letters</i> , 2012, 758, L36.	8.3	117
22	Ammonium salts are a reservoir of nitrogen on a cometary nucleus and possibly on some asteroids. <i>Science</i> , 2020, 367, .	12.6	115
23	A close look at Saturn's rings with Cassini VIMS. <i>Icarus</i> , 2008, 193, 182-212.	2.5	113
24	South-polar features on Venus similar to those near the north pole. <i>Nature</i> , 2007, 450, 637-640.	27.8	110
25	The Surface Composition and Temperature of Asteroid 21 Lutetia As Observed by Rosetta/VIRTIS. <i>Science</i> , 2011, 334, 492-494.	12.6	110
26	Exposed water ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Nature</i> , 2016, 529, 368-372.	27.8	104
27	Synthesis of the morphological description of cometary dust at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A24.	5.1	100
28	A dynamic upper atmosphere of Venus as revealed by VIRTIS on Venus Express. <i>Nature</i> , 2007, 450, 641-645.	27.8	95
29	Cassini Visual and Infrared Mapping Spectrometer Observations of Iapetus: Detection of CO ₂ . <i>Astrophysical Journal</i> , 2005, 622, L149-L152.	4.5	94
30	Pitted Terrain on Vesta and Implications for the Presence of Volatiles. <i>Science</i> , 2012, 338, 246-249.	12.6	91
31	Three-dimensional direct simulation Monte-Carlo modeling of the coma of comet 67P/Churyumov-Gerasimenko observed by the VIRTIS and ROSINA instruments on board Rosetta. <i>Astronomy and Astrophysics</i> , 2016, 588, A134.	5.1	88
32	Vesta's mineralogical composition as revealed by the visible and infrared spectrometer on Dawn. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2166-2184.	1.6	87
33	Direct Simulation Monte Carlo modelling of the major species in the coma of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S156-S169.	4.4	87
34	Hydrocarbons on Saturn's satellites Iapetus and Phoebe. <i>Icarus</i> , 2008, 193, 334-343.	2.5	86
35	Saturn's icy satellites and rings investigated by Cassini's VIMS: III - Radial compositional variability. <i>Icarus</i> , 2012, 220, 1064-1096.	2.5	86
36	Composition of the Rheasilvia basin, a window into Vesta's interior. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 335-346.	3.6	84

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37	Nature, formation, and distribution of carbonates on Ceres. <i>Science Advances</i> , 2018, 4, e1701645.	10.3	83
38	Olivine in an unexpected location on Vesta's surface. <i>Nature</i> , 2013, 504, 122-125.	27.8	82
39	A 5-Micron-Bright Spot on Titan: Evidence for Surface Diversity. <i>Science</i> , 2005, 310, 92-95.	12.6	78
40	First observations of H ₂ O and CO ₂ vapor in comet 67P/Churyumov-Gerasimenko made by VIRTIS onboard Rosetta. <i>Astronomy and Astrophysics</i> , 2015, 583, A6.	5.1	77
41	Vestan lithologies mapped by the visual and infrared spectrometer on Dawn. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2185-2198.	1.6	75
42	Virtis : an imaging spectrometer for the rosetta mission. <i>Planetary and Space Science</i> , 1998, 46, 1291-1304.	1.7	72
43	Evolution of CO ₂ , CH ₄ , and OCS abundances relative to H ₂ O in the coma of comet 67P around perihelion from Rosetta/VIRTIS-H observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S170-S183.	4.4	72
44	Photometric properties of comet 67P/Churyumov-Gerasimenko from VIRTIS-M onboard Rosetta. <i>Astronomy and Astrophysics</i> , 2015, 583, A31.	5.1	71
45	SIMBIO-SYS: The spectrometer and imagers integrated observatory system for the BepiColombo planetary orbiter. <i>Planetary and Space Science</i> , 2010, 58, 125-143.	1.7	70
46	Saturn's Titan: Surface change, ammonia, and implications for atmospheric and tectonic activity. <i>Icarus</i> , 2009, 199, 429-441.	2.5	69
47	Shapes of asteroids compared with fragments from hypervelocity impact experiments. <i>Nature</i> , 1984, 308, 832-834.	27.8	68
48	Detection of exposed H ₂ O ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 595, A102.	5.1	67
49	Hapke modeling of Rhea surface properties through Cassini-VIMS spectra. <i>Icarus</i> , 2011, 214, 541-555.	2.5	64
50	Detection of Sub-Micron Radiation from the Surface of Venus by Cassini/VIMS. <i>Icarus</i> , 2000, 148, 307-311.	2.5	62
51	Saturn's icy satellites investigated by Cassini-VIMS. <i>Icarus</i> , 2007, 186, 259-290.	2.5	62
52	Water and carbon dioxide distribution in the 67P/Churyumov-Gerasimenko coma from VIRTIS-M infrared observations. <i>Astronomy and Astrophysics</i> , 2016, 589, A45.	5.1	62
53	Cassini VIMS observations of the Galilean satellites including the VIMS calibration procedure. <i>Icarus</i> , 2004, 172, 104-126.	2.5	61
54	Investigation into the disparate origin of CO ₂ and H ₂ O outgassing for Comet 67P. <i>Icarus</i> , 2016, 277, 78-97.	2.5	61

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55	Seasonal exposure of carbon dioxide ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2016, 354, 1563-1566.	12.6	61
56	Observations in the Saturn system during approach and orbital insertion, with Cassini's visual and infrared mapping spectrometer (VIMS). <i>Astronomy and Astrophysics</i> , 2006, 446, 707-716.	5.1	57
57	THE ATMOSPHERES OF SATURN AND TITAN IN THE NEAR-INFRARED: FIRST RESULTS OF CASSINI/VIMS. <i>Earth, Moon and Planets</i> , 2006, 96, 119-147.	0.6	57
58	The surface distributions of the production of the major volatile species, H ₂ O, CO ₂ , CO and O ₂ , from the nucleus of comet 67P/Churyumov-Gerasimenko throughout the Rosetta Mission as measured by the ROSINA double focusing mass spectrometer. <i>Icarus</i> , 2020, 335, 113421.	2.5	57
59	Surface composition of Hyperion. <i>Nature</i> , 2007, 448, 54-56.	27.8	56
60	Comet 67P outbursts and quiescent coma at 1.3 au from the Sun: dust properties from Rosetta/VIRTIS-H observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S443-S458.	4.4	56
61	The global surface composition of 67P/CG nucleus by Rosetta/VIRTIS. (I) Prelanding mission phase. <i>Icarus</i> , 2016, 274, 334-349.	2.5	54
62	Spectral variability of plagioclase-â€“mafic mixtures (1): Effects of chemistry and modal abundance in reflectance spectra of rocks and mineral mixtures. <i>Icarus</i> , 2013, 226, 282-298.	2.5	52
63	Thermal measurements of dark and bright surface features on Vesta as derived from Dawn/VIR. <i>Icarus</i> , 2014, 240, 36-57.	2.5	52
64	Asteroidal catastrophic collisions simulated by hypervelocity impact experiments. <i>Icarus</i> , 1986, 66, 487-514.	2.5	51
65	Photometric behavior of spectral parameters in Vesta dark and bright regions as inferred by the Dawn VIR spectrometer. <i>Icarus</i> , 2014, 240, 20-35.	2.5	51
66	Observations with the Visual and Infrared Mapping Spectrometer (VIMS) during Cassini's flyby of Jupiter. <i>Icarus</i> , 2003, 164, 461-470.	2.5	48
67	Saturn-â€™s icy satellites investigated by Cassini-â€™VIMS. <i>Icarus</i> , 2010, 206, 507-523.	2.5	47
68	Interpretation of combined infrared, submillimeter, and millimeter thermal flux data obtained during the Rosetta fly-by of Asteroid (21) Lutetia. <i>Icarus</i> , 2012, 221, 395-404.	2.5	47
69	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	47
70	Vesta surface thermal properties map. <i>Geophysical Research Letters</i> , 2014, 41, 1438-1443.	4.0	46
71	Rationale for BepiColombo Studies of Mercury-â€™s Surface and Composition. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	46
72	Transition Elements between Comets and Asteroids. <i>Icarus</i> , 1997, 129, 317-336.	2.5	43

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73	Variations in the amount of water ice on Ceres's surface suggest a seasonal water cycle. <i>Science Advances</i> , 2018, 4, eaao3757.	10.3	43
74	On-ground characterization of Rosetta/VIRTIS-M. I. Spectral and geometrical calibrations. <i>Review of Scientific Instruments</i> , 2006, 77, 093109.	1.3	42
75	A P/Wirtanen evolution model. <i>Planetary and Space Science</i> , 1996, 44, 987-1000.	1.7	41
76	Composition and mineralogy of dark material units on Vesta. <i>Icarus</i> , 2014, 240, 58-72.	2.5	41
77	Infrared detection of aliphatic organics on a cometary nucleus. <i>Nature Astronomy</i> , 2020, 4, 500-505.	10.1	41
78	Phase curves of meteorites and terrestrial rocks: Laboratory measurements and applications to asteroids. <i>Icarus</i> , 1990, 83, 325-348.	2.5	40
79	Connections between spectra and structure in Saturn's main rings based on Cassini VIMS data. <i>Icarus</i> , 2013, 223, 105-130.	2.5	40
80	The Philae lander reveals low-strength primitive ice inside cometary boulders. <i>Nature</i> , 2020, 586, 697-701.	27.8	40
81	Radiofrequency emissions observed during macroscopic hypervelocity impact experiments. <i>Nature</i> , 1984, 308, 830-832.	27.8	38
82	Transition Elements between Comets and Asteroids. <i>Icarus</i> , 1997, 129, 337-347.	2.5	38
83	Photometric changes on Saturn's Titan: Evidence for active cryovolcanism. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	38
84	Models of P/Wirtanen nucleus: active regions versus non-active regions. <i>Planetary and Space Science</i> , 1999, 47, 855-872.	1.7	36
85	An orbital water-ice cycle on comet 67P from colour changes. <i>Nature</i> , 2020, 578, 49-52.	27.8	36
86	On-ground characterization of Rosetta/VIRTIS-M. II. Spatial and radiometric calibrations. <i>Review of Scientific Instruments</i> , 2006, 77, 103106.	1.3	34
87	The changing temperature of the nucleus of comet 67P induced by morphological and seasonal effects. <i>Nature Astronomy</i> , 2019, 3, 649-658.	10.1	34
88	Thermal evolution and differentiation of a short-period comet. <i>Planetary and Space Science</i> , 1993, 41, 409-427.	1.7	33
89	Detections and geologic context of local enrichments in olivine on Vesta with VIR/Dawn data. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2078-2108.	3.6	33
90	Identification of spectral units on Phoebe. <i>Icarus</i> , 2008, 193, 233-251.	2.5	32

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91	Spectral variability of plagioclaseâ€“mafic mixtures (2): Investigation of the optical constant and retrieved mineral abundance dependence on particle size distribution. <i>Icarus</i> , 2014, 235, 207-219.	2.5	30
92	Thermal properties of the asteroid (2867) Steins as observed by VIRTIS/Rosetta. <i>Astronomy and Astrophysics</i> , 2011, 531, A168.	5.1	29
93	Overview of Lutetia's surface composition. <i>Planetary and Space Science</i> , 2012, 66, 23-30.	1.7	29
94	PFS: A fourier spectrometer for the study of Martian atmosphere. <i>Advances in Space Research</i> , 1997, 19, 1277-1280.	2.6	28
95	VIMS spectral mapping observations of Titan during the Cassini prime mission. <i>Planetary and Space Science</i> , 2009, 57, 1950-1962.	1.7	28
96	CASSINI/VIMS-V at Jupiter: Radiometric calibration test and data results. <i>Planetary and Space Science</i> , 2004, 52, 661-670.	1.7	27
97	The heating history of Vesta and the onset of differentiation. <i>Meteoritics and Planetary Science</i> , 2013, 48, 2316-2332.	1.6	27
98	Dawn Discovery mission to Vesta and Ceres: Present status. <i>Advances in Space Research</i> , 2006, 38, 2043-2048.	2.6	26
99	THE RADIAL DISTRIBUTION OF WATER ICE AND CHROMOPHORES ACROSS SATURN'S SYSTEM. <i>Astrophysical Journal</i> , 2013, 766, 76.	4.5	26
100	Spectroscopic classification of icy satellites of Saturn II: Identification of terrain units on Rhea. <i>Icarus</i> , 2014, 234, 1-16.	2.5	26
101	Spectral analysis of the bright materials on the asteroid Vesta. <i>Icarus</i> , 2014, 240, 73-85.	2.5	26
102	Mapping Titan's surface features within the visible spectrum via Cassini VIMS. <i>Planetary and Space Science</i> , 2012, 60, 52-61.	1.7	25
103	Infrared space interferometry â€” the DARWIN mission. <i>Advances in Space Research</i> , 2002, 30, 2135-2145.	2.6	24
104	High-resolution CASSINI-VIMS mosaics of Titan and the icy Saturnian satellites. <i>Planetary and Space Science</i> , 2006, 54, 1146-1155.	1.7	24
105	Cassiniâ€“VIMS observations of Saturnâ€™s main rings: I. Spectral properties and temperature radial profiles variability with phase angle and elevation. <i>Icarus</i> , 2014, 241, 45-65.	2.5	24
106	Saturnâ€™s icy satellites investigated by Cassini-VIMS. IV. Daytime temperature maps. <i>Icarus</i> , 2016, 271, 292-313.	2.5	23
107	Laboratory simulations of the Vis-NIR spectra of comet 67P using sub-Åµm sized cosmochemical analogues. <i>Icarus</i> , 2018, 306, 306-318.	2.5	23
108	VIRTIS: The imaging spectrometer of the Rosetta mission. <i>Advances in Space Research</i> , 1999, 24, 1095-1104.	2.6	22

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109	Spectroscopic classification of icy satellites of Saturn I: Identification of terrain units on Dione. Icarus, 2013, 226, 1331-1349.	2.5	22
110	A test of Hapke's model by means of Monte Carlo ray-tracing. Icarus, 2014, 237, 293-305.	2.5	22
111	How pristine is the interior of the comet 67P/Churyumov-Gerasimenko?. Monthly Notices of the Royal Astronomical Society, 2017, 469, S685-S694.	4.4	22
112	Olivine thermal emissivity under extreme temperature ranges: Implication for Mercury surface. Earth and Planetary Science Letters, 2013, 371-372, 252-257.	4.4	20
113	Summer outbursts in the coma of comet 67P/Churyumov-Gerasimenko as observed by Rosetta-VIRTIS. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1235-1250.	4.4	20
114	Macro and micro structures of pebble-made cometary nuclei reconciled by seasonal evolution. Nature Astronomy, 2022, 6, 546-553.	10.1	20
115	Numerically improved thermochemical evolution models of comet nuclei. Planetary and Space Science, 1999, 47, 839-853.	1.7	19
116	Mineralogical and spectral analysis of Vesta's Gegeria and Lucaria quadrangles and comparative analysis of their key features. Icarus, 2015, 259, 72-90.	2.5	19
117	NIR reflectance spectroscopy of hydrated and anhydrous sodium carbonates at different temperatures. Icarus, 2019, 317, 388-411.	2.5	18
118	VIRTIS: Visible Infrared Thermal Imaging Spectrometer for the Rosetta mission. , 1996, , .		17
119	Cassini-VIMS observations of Saturn's main rings: II. A spectrophotometric study by means of Monte Carlo ray-tracing and Hapke's theory. Icarus, 2019, 317, 242-265.	2.5	17
120	VIRTIS-H observations of the dust coma of comet 67P/Churyumov-Gerasimenko: spectral properties and color temperature variability with phase and elevation. Astronomy and Astrophysics, 2019, 630, A22.	5.1	17
121	MA_MISS: Mars multispectral imager for subsurface studies. Advances in Space Research, 2001, 28, 1203-1208.	2.6	16
122	Photometric behaviour of 67P/Churyumov-Gerasimenko and analysis of its pre-perihelion diurnal variations. Monthly Notices of the Royal Astronomical Society, 2017, 469, S346-S356.	4.4	16
123	Infrared spectrometer PFS for the Mars 94 orbiter. Advances in Space Research, 1996, 17, 61-64.	2.6	15
124	Visible and Near-Infrared (VNIR) reflectance spectroscopy of glassy igneous material: Spectral variation, retrieving optical constants and particle sizes by Hapke model. Icarus, 2016, 266, 267-278.	2.5	15
125	Triple "a comet nucleus sample return mission. Experimental Astronomy, 2009, 23, 809-847.	3.7	14
126	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

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127	Photometric properties of Titan's surface from Cassini VIMS: Relevance to Titan's hemispherical albedo dichotomy and surface stability. <i>Planetary and Space Science</i> , 2006, 54, 1540-1551.	1.7	13
128	The temporal evolution of exposed water ice-rich areas on the surface of 67P/Churyumov-Gerasimenko: spectral analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stw3281.	4.4	13
129	Cassini's geological and compositional view of Tethys. <i>Icarus</i> , 2016, 274, 1-22.	2.5	13
130	The light curve of asteroid 21 Lutetia measured by VIRTIS-M during the Rosetta fly-by. <i>Planetary and Space Science</i> , 2012, 66, 9-22.	1.7	12
131	Compositional evidence of magmatic activity on Vesta. <i>Geophysical Research Letters</i> , 2014, 41, 3038-3044.	4.0	12
132	Rosetta Alice/VIRTIS observations of the water vapour UV electroglow emissions around comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S416-S426.	4.4	12
133	Cometary coma dust size distribution from in situ IR spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S598-S605.	4.4	12
134	Hydroxylated Mg-rich Amorphous Silicates: A New Component of the 3.2 μ m Absorption Band of Comet 67P/Churyumov-Gerasimenko. <i>Astrophysical Journal Letters</i> , 2020, 897, L37.	8.3	12
135	Imaging spectroscopy of Saturn and its satellites : vims-v onboard Cassini. <i>Planetary and Space Science</i> , 1998, 46, 1263-1276.	1.7	11
136	The light curve of asteroid 2867 Steins measured by VIRTIS-M during the Rosetta fly-by. <i>Planetary and Space Science</i> , 2010, 58, 1066-1076.	1.7	11
137	Comparative analysis of airglow emissions in terrestrial planets, observed with VIRTIS-M instruments on board Rosetta and Venus Express. <i>Icarus</i> , 2013, 226, 1115-1127.	2.5	11
138	Disk-resolved photometry of Vesta and Lutetia and comparison with other asteroids. <i>Icarus</i> , 2016, 267, 204-216.	2.5	11
139	Martian atmosphere as observed by VIRTIS-M on Rosetta spacecraft. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	10
140	and seasonal variability. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stw3177.	4.4	10
141	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
142	Global Spectral Properties and Lithology of Mercury: The Example of the Shakespeare (H&O3) Quadrangle. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 2326-2346.	3.6	10
143	BepiColombo SIMBIO-SYS data: Preliminary evaluation for rock discrimination and recognition in both low and high resolution spectroscopic data in the visible and near infrared spectral intervals. <i>Planetary and Space Science</i> , 2007, 55, 1596-1613.	1.7	9
144	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. <i>Astronomy and Astrophysics</i> , 2019, 630, A23.	5.1	9

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145	G-MODE CLASSIFICATION OF SPECTROSCOPIC DATA. Earth, Moon and Planets, 2006, 96, 165-197.	0.6	8
146	Correlations between VIMS and RADAR data over the surface of Titan: Implications for Titan's surface properties. Icarus, 2010, 208, 366-384.	2.5	8
147	The pre-launch characterization of SIMBIO-SYS/VIHI imaging spectrometer for the BepiColombo mission to Mercury. II. Spectral calibrations. Review of Scientific Instruments, 2017, 88, 094503.	1.3	8
148	Northwest Africa 6232: Visible-near infrared reflectance spectra variability of an olivine diogenite. Meteoritics and Planetary Science, 2018, 53, 2228-2242.	1.6	8
149	Analysis of night-side dust activity on comet 67P observed by VIRTIS-M: a new method to constrain the thermal inertia on the surface. Astronomy and Astrophysics, 2019, 630, A21.	5.1	8
150	67P/Churyumov-Gerasimenko active areas before perihelion identified by GIADA and VIRTIS data fusion. Monthly Notices of the Royal Astronomical Society, 2019, 483, 2165-2176.	4.4	8
151	Efficiency measurements of the VIRTIS-M grating. Planetary and Space Science, 2000, 48, 411-417.	1.7	7
152	Cassini-VIMS at Jupiter: solar occultation measurements using Io. Icarus, 2003, 166, 75-84.	2.5	7
153	Terrestrial OH nightglow measurements during the Rosetta flyby. Geophysical Research Letters, 2015, 42, 5670-5677.	4.0	7
154	Photometric Modeling and VIS-IR Albedo Maps of Dione From Cassini-VIMS. Geophysical Research Letters, 2018, 45, 2184-2192.	4.0	7
155	Spectral Units Analysis of Quadrangle H05-Hokusai on Mercury. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	7
156	The Cassini Visual and Infrared Mapping Spectrometer (VIMS) Investigation. , 2004, , 111-168.		6
157	Characterization of the integrating sphere for the on-ground calibration of the SIMBIOSYS instrument for the BepiColombo ESA mission. Proceedings of SPIE, 2014, , .	0.8	6
158	Analysis of Rosetta/VIRTIS spectra of earth using observations from ENVISAT/AATSR, TERRA/MODIS and ENVISAT/SCIAMACHY, and radiative-transfer simulations. Planetary and Space Science, 2014, 90, 37-59.	1.7	6
159	Photometric Modeling and VIS-IR Albedo Maps of Tethys From Cassini-VIMS. Geophysical Research Letters, 2018, 45, 6400-6407.	4.0	6
160	VIRTIS-H: a high-spectral-resolution channel for the Rosetta infrared imaging spectrometer. , 2000, , .		5
161	MARS-IRMA: in-situ infrared microscope analysis of Martian soil and rock samples.. Advances in Space Research, 2001, 28, 1219-1224.	2.6	5
162	Pre-launch calibrations of the Vis-IR Hyperspectral Imager (VIHI) onboard BepiColombo, the ESA mission to Mercury. Proceedings of SPIE, 2013, , .	0.8	5

#	ARTICLE	IF	CITATIONS
163	GAUSS - genesis of asteroids and evolution of the solar system. <i>Experimental Astronomy</i> , 0, , 1.	3.7	5
164	Planetary Fourier spectrometer: An interferometer for atmospheric studies on board Mars 94 mission. <i>Il Nuovo Cimento Della SocietÀ Italiana Di Fisica C</i> , 1993, 16, 575-588.	0.2	4
165	Principal components analysis of Jupiter VIMS spectra. <i>Advances in Space Research</i> , 2004, 34, 1640-1646.	2.6	4
166	Saturn Satellites as Seen by Cassini Mission. <i>Earth, Moon and Planets</i> , 2009, 105, 289-310.	0.6	4
167	VIRTIS on Rosetta: a unique technique to observe comet 67P/Churyumov-Gerasimenko â€œ first results and prospects. <i>Proceedings of SPIE</i> , 2015, , .	0.8	4
168	AMBITION â€œ comet nucleus cryogenic sample return. <i>Experimental Astronomy</i> , 2022, 54, 1077-1128.	3.7	4
169	Optical performance evaluation of the high spatial resolution imaging camera of BepiColombo space mission. <i>Optics and Laser Technology</i> , 2021, 141, 107172.	4.6	4
170	Virtis Experiment at Churyumov â€œ Gerasimenko Comet, New Rosetta Target. <i>Astrophysics and Space Science Library</i> , 2004, , 223-236.	2.7	4
171	MEMORIS: a wide angle camera for the BepiColombo mission. <i>Advances in Space Research</i> , 2004, 33, 2182-2188.	2.6	3
172	Calibration pipeline of VIS-NIR imaging spectrometers for planetary exploration: The rosetta VIRTIS-M case. , 2009, , .		3
173	Photometric modelling and VIS-IR albedo maps of Rhea from Cassini-VIMS. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2020, 499, L62-L66.	3.3	3
174	Temporal evolution of the permanent shadowed regions at Mercury poles: applications for spectral detection of ices by SIMBIOSYS-VIHI on BepiColombo mission. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 1308-1318.	4.4	3
175	VIRTIS: An Imaging Spectrometer for the ROSETTA Mission. , 2009, , 563-585.		3
176	Saturnâ€™s icy satellites investigated by Cassini - VIMS. V. Spectrophotometry. <i>Icarus</i> , 2022, 375, 114803.	2.5	3
177	Water ortho-to-para ratio in the coma of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2022, 663, A43.	5.1	3
178	Experimental measurement of particle deceleration and survival in multiple thin foil targets. <i>Advances in Space Research</i> , 1986, 6, 17-20.	2.6	2
179	An imaging spectrometer operating in the visible near infrared for the study of planetary surfaces. <i>Planetary and Space Science</i> , 1998, 46, 1277-1290.	1.7	2
180	Virtis-H: an infrared spectrometer for the Rosetta mission -- calibration results. , 2002, 4818, 14.		2

#	ARTICLE	IF	CITATIONS
181	Visible and near infrared detector for BepiColombos spectrometer VIHI. EAS Publications Series, 2009, 37, 391-395.	0.3	2
182	Photometric Properties of Vesta. Proceedings of the International Astronomical Union, 2012, 10, 179-179.	0.0	2
183	The visible and near infrared (VNIR) spectrometer of EChO. , 2012, , .		2
184	An imaging spectrometer for planetary studies. Il Nuovo Cimento Della Societ� Italiana Di Fisica C, 1993, 16, 589-595.	0.2	1
185	THE ONSET OF DIFFERENTIATION AND INTERNAL EVOLUTION: THE CASE OF 21 LUTETIA. Astrophysical Journal, 2013, 770, 50.	4.5	1
186	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
187	Laboratory characterization of HYPPOS, a novel 4D remote sensing instrument. , 2021, , .		1
188	SIMBIO-SYS Near Earth Commissioning Phase: a step forward toward Mercury. , 2019, , .		1
189	The international package for scientific experiments (IPSE) for Mars surveyor program. Advances in Space Research, 2001, 28, 1209-1218.	2.6	0
190	Cassini/VIMS observations of the moon. Advances in Space Research, 2002, 30, 1889-1894.	2.6	0
191	METHIS: Mercury thermal infrared spectrometer. Advances in Space Research, 2004, 33, 2189-2194.	2.6	0
192	VISPO project: visible image-spectrometer for planetary observations. New Astronomy, 2004, 9, 635-640.	1.8	0
193	VIS-NIR imaging spectroscopy of the Mercury's surface: SIMBIO-SYS/VIHI experiment onboard the Bepi Colombo mission. , 2009, , .		0
194	Thermal analysis of unusual local-scale features on the surface of Vesta. , 2013, , .		0
195	Spectroscopic classification of icy satellites of saturn " Identification of terrain units on dione and rhea. , 2014, , .		0
196	Visible and Near-Infrared Spectral Analyses of Asteroids and Comets from Dawn and Rosetta. , 2019, , 413-427.		0
197	IPSE: Italian package for scientific experiments. , 0, , .		0