Federico Tosi

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9097165/publications.pdf

Version: 2024-02-01

196 papers	7,437 citations	57681 46 h-index	75989 78 g-index
211 all docs	211 docs citations	211 times ranked	4338 citing authors

#	Article	IF	Citations
1	Ice giant system exploration within ESAâ€™s Voyage 2050. Experimental Astronomy, 2022, 54, 1015-1025.	1.6	4
2	VIS-IR spectroscopy of magnesium chlorides at cryogenic temperatures. Icarus, 2022, 373, 114756.	1.1	4
3	Science Drivers for the Future Exploration of Ceres: From Solar System Evolution to Ocean World Science. Planetary Science Journal, 2022, 3, 64.	1.5	4
4	Macro and micro structures of pebble-made cometary nuclei reconciled by seasonal evolution. Nature Astronomy, 2022, 6, 546-553.	4.2	20
5	On the origin of molecular oxygen on the surface of Ganymede. Icarus, 2022, 383, 115074.	1.1	3
6	Stability of the Jupiter Southern Polar Vortices Inspected Through Vorticity Using Juno/JIRAM Data. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	3
7	Temperature-dependent, VIS-NIR reflectance spectroscopy of sodium sulfates. Icarus, 2021, 357, 114165.	1.1	7
8	On the clouds and ammonia in Jupiterâ€™s upper troposphere from Juno JIRAM reflectivity observations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4892-4907.	1.6	5
9	Oscillations and Stability of the Jupiter Polar Cyclones. Geophysical Research Letters, 2021, 48, e2021GL094235.	1.5	11
10	The surface of (4) Vesta in visible light as seen by Dawn/VIR. Astronomy and Astrophysics, 2021, 653, A118.	2.1	1
11	Morphology of the Auroral Tail of Io, Europa, and Ganymede From JIRAM Lâ€Band Imager. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029450.	0.8	15
12	Thermal inertia of Occator's faculae on Ceres. Planetary and Space Science, 2021, 205, 105285.	0.9	0
13	Regions of interest on Ganymede's and Callisto's surfaces as potential targets for ESA's JUICE mission. Planetary and Space Science, 2021, 208, 105324.	0.9	12
14	Organic Material on Ceres: Insights from Visible and Infrared Space Observations. Life, 2021, 11, 9.	1.1	12
15	High Thermal Inertia Zones on Ceres From Dawn Data. Journal of Geophysical Research E: Planets, 2020, 125, e2018JE005733.	1.5	9
16	Infrared observations of Io from Juno. Icarus, 2020, 341, 113607.	1.1	23
17	Juno/JIRAM: Planning and commanding activities. Advances in Space Research, 2020, 65, 598-615.	1.2	5
18	Impact heat driven volatile redistribution at Occator crater on Ceres as a comparative planetary process. Nature Communications, 2020, 11, 3679.	5.8	19

#	Article	IF	Citations
19	Fresh emplacement of hydrated sodium chloride on Ceres from ascending salty fluids. Nature Astronomy, 2020, 4, 786-793.	4.2	60
20	Turbulence Power Spectra in Regions Surrounding Jupiter's South Polar Cyclones From Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006096.	1.5	8
21	Mapping Io's Surface Composition With Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006522.	1.5	8
22	Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006508.	1.5	16
23	Twoâ€Year Observations of the Jupiter Polar Regions by JIRAM on Board Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006098.	1.5	24
24	Ammonium salts are a reservoir of nitrogen on a cometary nucleus and possibly on some asteroids. Science, 2020, 367, .	6.0	115
25	Liquid-liquid phase separation drives skin barrier formation. Science, 2020, 367, .	6.0	141
26	Joint Europa Mission (JEM): a multi-scale study of Europa to characterize its habitability and search for extant life. Planetary and Space Science, 2020, 193, 104960.	0.9	15
27	Preliminary estimation of the detection possibilities of Ganymedeâ€™s water vapor environment with MAJIS. Planetary and Space Science, 2020, 191, 105004.	0.9	5
28	Ice Giant Systems: The scientific potential of orbital missions to Uranus and Neptune. Planetary and Space Science, 2020, 191, 105030.	0.9	39
29	Ceres observed at low phase angles by VIR-Dawn. Astronomy and Astrophysics, 2020, 634, A39.	2.1	8
30	On the Spatial Distribution of Minor Species in Jupiter's Troposphere as Inferred From Juno JIRAM Data. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006206.	1.5	14
31	Infrared detection of aliphatic organics on a cometary nucleus. Nature Astronomy, 2020, 4, 500-505.	4.2	41
32	The surface of (1) Ceres in visible light as seen by Dawn/VIR. Astronomy and Astrophysics, 2020, 642, A74.	2.1	8
33	Correction of the VIR-visible dataset from the Dawn mission at Vesta. Review of Scientific Instruments, 2020, 91, 123102.	0.6	3
34	Spectral analysis of the Cerean geological unit crater central peak material as an indicator of subsurface mineral composition. Icarus, 2019, 318, 75-98.	1.1	6
35	Nature, distribution and origin of CO2 on Enceladus. Icarus, 2019, 317, 491-508.	1.1	14
36	The spectral parameter maps of Ceres from NASA/DAWN VIR data. Icarus, 2019, 318, 14-21.	1.1	9

#	Article	IF	Citations
37	The mineralogy of Ceresâ€™ Nawish quadrangle. Icarus, 2019, 318, 195-204.	1.1	1
38	Scientific goals and technical challenges of the MAJIS imaging spectrometer for the JUICE mission. , 2019, , .		2
39	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.	2.1	8
40	H3+ characteristics in the Jupiter atmosphere as observed at limb with Juno/JIRAM. Icarus, 2019, 329, 132-139.	1.1	11
41	Titan as Revealed by the Cassini Radar. Space Science Reviews, 2019, 215, 1.	3.7	34
42	The changing temperature of the nucleus of comet 67P induced by morphological and seasonal effects. Nature Astronomy, 2019, 3, 649-658.	4.2	34
43	The Thermal, Mechanical, Structural, and Dielectric Properties of Cometary Nuclei After Rosetta. Space Science Reviews, 2019, 215, 1.	3.7	61
44	Serendipitous infrared observations of Europa by Juno/JIRAM. Icarus, 2019, 328, 1-13.	1.1	15
45	Correction of the VIR-visible data set from the Dawn mission. Review of Scientific Instruments, 2019, 90, 123110.	0.6	9
46	NIR reflectance spectroscopy of hydrated and anhydrous sodium carbonates at different temperatures. Icarus, 2019, 317, 388-411.	1.1	18
47	67P/Churyumovâ€“Gerasimenko active areas before perihelion identified by GIADA and VIRTIS data fusion. Monthly Notices of the Royal Astronomical Society, 2019, 483, 2165-2176.	1.6	8
48	Mineralogy mapping of the Ac-H-5 Fejokoo quadrangle of Ceres. Icarus, 2019, 318, 147-169.	1.1	1
49	Mineralogical analysis of the Ac-H-6 Haulani quadrangle of the dwarf planet Ceres. Icarus, 2019, 318, 170-187.	1.1	11
50	Ac-H-11 Sintana and Ac-H-12 Toharu quadrangles: Assessing the large and small scale heterogeneities of Ceresâ€™ surface. Icarus, 2019, 318, 230-240.	1.1	9
51	Mineralogical analysis of quadrangle Ac-H-10 Rongo on the dwarf planet Ceres. Icarus, 2019, 318, 212-229.	1.1	8
52	Mineralogy of the Occator quadrangle. Icarus, 2019, 318, 205-211.	1.1	11
53	Compositional differences among Bright Spots on the Ceres surface. Icarus, 2019, 320, 202-212.	1.1	33
54	Spectral investigation of quadrangle AC-H 3 of the dwarf planet Ceres â€“ The region of impact crater Dantu. Icarus, 2019, 318, 111-123.	1.1	5

#	Article	IF	Citations
55	Mineralogical mapping of the Kerwan quadrangle on Ceres. Icarus, 2019, 318, 188-194.	1.1	8
56	Ceresâ€™ impact craters â€“ Relationships between surface composition and geology. Icarus, 2019, 318, 56-74.	1.1	11
57	Mineralogy of the Urvaraâ€“Yalode region on Ceres. Icarus, 2019, 318, 241-250.	1.1	6
58	Photometry of Ceres and Occator faculae as inferred from VIR/Dawn data. Icarus, 2019, 320, 97-109.	1.1	17
59	Mineralogy of Occator crater on Ceres and insight into its evolution from the properties of carbonates, phyllosilicates, and chlorides. Icarus, 2019, 320, 83-96.	1.1	63
60	The surface composition of Ceresâ€™ Ezinu quadrangle analyzed by the Dawn mission. Icarus, 2019, 318, 124-146.	1.1	6
61	Exposed H2O-rich areas detected on Ceres with the dawn visible and infrared mapping spectrometer. Icarus, 2019, 318, 22-41.	1.1	47
62	Mineralogical mapping of Coniraya quadrangle of the dwarf planet Ceres. Icarus, 2019, 318, 99-110.	1.1	20
63	Clusters of cyclones encircling Jupiterâ€™s poles. Nature, 2018, 555, 216-219.	13.7	90
64	Mineralogy and temperature of crater Haulani on Ceres. Meteoritics and Planetary Science, 2018, 53, 1902-1924.	0.7	21
65	Geologic constraints on the origin of red organicâ€rich material on Ceres. Meteoritics and Planetary Science, 2018, 53, 1983-1998.	0.7	34
66	Nature, formation, and distribution of carbonates on Ceres. Science Advances, 2018, 4, e1701645.	4.7	83
67	Variations in the amount of water ice on Ceresâ€™ surface suggest a seasonal water cycle. Science Advances, 2018, 4, eaao3757.	4.7	43
68	The unique geomorphology and structural geology of the Haulani crater of dwarf planet Ceres as revealed by geological mapping of equatorial quadrangle Ac-6 Haulani. Icarus, 2018, 316, 84-98.	1.1	19
69	Laboratory simulations of the Vis-NIR spectra of comet 67P using sub-Âµm sized cosmochemical analogues. Icarus, 2018, 306, 306-318.	1.1	23
70	Thermal Stability of Water Ice in Ceres' Craters: The Case of Juling Crater. Journal of Geophysical Research E: Planets, 2018, 123, 2445-2463.	1.5	13
71	Dantu's mineralogical properties â€“ A view into the composition of Ceres' crust. Meteoritics and Planetary Science, 2018, 53, 1866-1883.	0.7	10
72	The Advanced Optical and Thermomechanical Design of the JUICE/MAJIS Spectrometer. , 2018, , .		0

#	Article	IF	Citations
73	Characterization of Mesoscale Waves in the Jupiter NEB by Jupiter InfraRed Auroral Mapper on board Juno. Astronomical Journal, 2018, 156, 246.	1.9	5
74	Summer outbursts in the coma of comet 67P/Churyumovâ€“Gerasimenko as observed by Rosettaâ€“VIRTIS. Monthly Notices of the Royal Astronomical Society, 2018, 481, 1235-1250.	1.6	20
75	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. Science, 2018, 361, 774-777.	6.0	53
76	First Estimate of Wind Fields in the Jupiter Polar Regions From JIRAMâ€Juno Images. Journal of Geophysical Research E: Planets, 2018, 123, 1511-1524.	1.5	24
77	Ceres's global and localized mineralogical composition determined by Dawn's Visible and Infrared Spectrometer (<scp>VIR</scp>). Meteoritics and Planetary Science, 2018, 53, 1844-1865.	0.7	29
78	Ringâ€Mold Craters on Ceres: Evidence for Shallow Subsurface Water Ice Sources. Geophysical Research Letters, 2018, 45, 8121-8128.	1.5	3
79	The optical design of the MAJIS instrument on board of the JUICE mission. , 2018, , .		2
80	JIRAM, the Jovian Infrared Auroral Mapper. Space Science Reviews, 2017, 213, 393-446.	3.7	91
81	Localized aliphatic organic material on the surface of Ceres. Science, 2017, 355, 719-722.	6.0	152
82	An investigation of the bluish material on Ceres. Geophysical Research Letters, 2017, 44, 1660-1668.	1.5	29
83	Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. Geophysical Research Letters, 2017, 44, 5308-5316.	1.5	30
84	Preliminary results on the composition of Jupiter's troposphere in hot spot regions from the JIRAM/Juno instrument. Geophysical Research Letters, 2017, 44, 4615-4624.	1.5	20
85	Preliminary JIRAM results from Juno polar observations: 2. Analysis of the Jupiter southern H₃⁺ emissions and comparison with the north aurora. Geophysical Research Letters, 2017, 44, 4633-4640.	1.5	20
86	Preliminary JIRAM results from Juno polar observations: 1. Methodology and analysis applied to the Jovian northern polar region. Geophysical Research Letters, 2017, 44, 4625-4632.	1.5	18
87	Characterization of the white ovals on Jupiter's southern hemisphere using the first data by the Juno/JIRAM instrument. Geophysical Research Letters, 2017, 44, 4660-4668.	1.5	15
88	Preliminary JIRAM results from Juno polar observations: 3. Evidence of diffuse methane presence in the Jupiter auroral regions. Geophysical Research Letters, 2017, 44, 4641-4648.	1.5	13
89	Spectral analysis of Ahuna Mons from Dawn mission's visibleâ€infrared spectrometer. Geophysical Research Letters, 2017, 44, 97-104.	1.5	74
90	Deciphering sub-micron ice particles on Enceladus surface. Icarus, 2017, 290, 183-200.	1.1	22

#	Article	IF	Citations
91	Spectrophotometric properties of dwarf planet Ceres from the VIR spectrometer on board the Dawn mission. Astronomy and Astrophysics, 2017, 598, A130.	2.1	69
92	Water and Volatiles in the Outer Solar System. Space Science Reviews, 2017, 212, 835-875.	3.7	44
93	Analysis of IR-bright regions of Jupiter in JIRAM-Juno data: Methods and validation of algorithms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 202, 200-209.	1.1	8
94	Pitted terrains on (1) Ceres and implications for shallow subsurface volatile distribution. Geophysical Research Letters, 2017, 44, 6570-6578.	1.5	48
95	Temperature-dependent VNIR spectroscopy of hydrated Mg-sulfates. Icarus, 2017, 281, 444-458.	1.1	16
96	How pristine is the interior of the comet 67P/Churyumovâ€“Gerasimenko?. Monthly Notices of the Royal Astronomical Society, 2017, 469, S685-S694.	1.6	22
97	Photometric behaviour of 67P/Churyumovâ€“Gerasimenko and analysis of its pre-perihelion diurnal variations. Monthly Notices of the Royal Astronomical Society, 2017, 469, S346-S356.	1.6	16
98	Water and Volatiles in the Outer Solar System. Space Sciences Series of ISSI, 2017, , 191-231.	0.0	0
99	Detection of exposed H₂O ice on the nucleus of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 595, A102.	2.1	67
100	Artifacts reduction in VIR/Dawn data. Review of Scientific Instruments, 2016, 87, 124501.	0.6	44
101	Cryogenic flow features on Ceres: Implications for craterâ€related cryovolcanism. Geophysical Research Letters, 2016, 43, 11,994.	1.5	48
102	Junoâ€™s Earth flyby: the Jovian infrared Auroral Mapper preliminary results. Astrophysics and Space Science, 2016, 361, 1.	0.5	14
103	Refractory and semi-volatile organics at the surface of comet 67P/Churyumov-Gerasimenko: Insights from the VIRTIS/Rosetta imaging spectrometer. Icarus, 2016, 272, 32-47.	1.1	127
104	The global surface composition of 67P/CG nucleus by Rosetta/VIRTIS. (I) Prelanding mission phase. Icarus, 2016, 274, 334-349.	1.1	54
105	Detection of local H ₂ O exposed at the surface of Ceres. Science, 2016, 353, .	6.0	128
106	Distribution of phyllosilicates on the surface of Ceres. Science, 2016, 353, .	6.0	159
107	Seasonal exposure of carbon dioxide ice on the nucleus of comet 67P/Churyumov-Gerasimenko. Science, 2016, 354, 1563-1566.	6.0	61
108	Disk-resolved photometry of Vesta and Lutetia and comparison with other asteroids. Icarus, 2016, 267, 204-216.	1.1	11

#	Article	IF	Citations
109	Lithologic variation within bright material on Vesta revealed by linear spectral unmixing. Icarus, 2016, 272, 16-31.	1.1	9
110	Bright carbonate deposits as evidence of aqueous alteration on (1) Ceres. Nature, 2016, 536, 54-57.	13.7	240
111	Exposed water ice on the nucleus of comet 67P/Churyumovâ€“Gerasimenko. Nature, 2016, 529, 368-372.	13.7	104
112	Daily variability of Ceresâ€™ albedo detected by means of radial velocities changes of the reflected sunlight. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 458, L54-L58.	1.2	8
113	Optical space weathering on Vesta: Radiative-transfer models and Dawn observations. Icarus, 2016, 265, 161-174.	1.1	9
114	MINERALOGICAL ANALYSIS OF THE QUADRANGLES AC-11 SINTANA AND AC-12 TOHARU ON THE DWARF PLANET CERES. , 2016, , .		1
115	MINERALOGICAL MAPPING OF THE OCCATOR QUADRANGLE. , 2016, , .		2
116	Separation of thermal inertia and roughness effects from Dawn/VIR measurements of Vesta surface temperatures in the vicinity of Marcia Crater. Icarus, 2015, 262, 30-43.	1.1	6
117	Reflectance properties and hydrated material distribution on Vesta: Global investigation of variations and their relationship using improved calibration of Dawn VIR mapping spectrometer. Icarus, 2015, 259, 21-38.	1.1	21
118	First observations of H₂O and CO₂vapor in comet 67P/Churyumov-Gerasimenko made by VIRTIS onboard Rosetta. Astronomy and Astrophysics, 2015, 583, A6.	2.1	77
119	Photometric properties of comet 67P/Churyumov-Gerasimenko from VIRTIS-M onboard Rosetta. Astronomy and Astrophysics, 2015, 583, A31.	2.1	71
120	Eucritic crust remnants and the effect of in-falling hydrous carbonaceous chondrites characterizing the composition of Vestaâ€™s Marcia region. Icarus, 2015, 259, 91-115.	1.1	8
121	The spectral parameter maps of Vesta from VIR data. Icarus, 2015, 259, 10-20.	1.1	14
122	Mineralogical analysis of the Oppia quadrangle of asteroid (4) Vesta: Evidence for occurrence of moderate-reflectance hydrated minerals. Icarus, 2015, 259, 129-149.	1.1	15
123	Mineralogic mapping of the Av-9 Numisia quadrangle of Vesta. Icarus, 2015, 259, 116-128.	1.1	6
124	Terrestrial <scp>OH</scp> nightglow measurements during the <scp>Rosetta</scp> flyby. Geophysical Research Letters, 2015, 42, 5670-5677.	1.5	7
125	Ammoniated phyllosilicates with a likely outer Solar System origin on (1) Ceres. Nature, 2015, 528, 241-244.	13.7	276
126	Compositional variations in the Vestan Rheasilvia basin. Icarus, 2015, 259, 194-202.	1.1	8

#	Article	IF	Citations
127	The organic-rich surface of comet 67P/Churyumov-Gerasimenko as seen by VIRTIS/Rosetta. Science, 2015, 347, aaa0628.	6.0	293
128	Mineralogical and spectral analysis of Vestaâ€™s Gegania and Lucaria quadrangles and comparative analysis of their key features. Icarus, 2015, 259, 72-90.	1.1	19
129	Spectral analysis of the quadrangles Av-13 and Av-14 on Vesta. Icarus, 2015, 259, 181-193.	1.1	9
130	The Sextilia-region on Asteroid 4Vesta â€“ Stratigraphy and variegation. Icarus, 2015, 259, 162-180.	1.1	8
131	Detection of new olivine-rich locations on Vesta. Icarus, 2015, 258, 120-134.	1.1	37
132	Vestaâ€™s Pinaria region: Original basaltic achondrite material derived from mixing upper and lower crust. Icarus, 2015, 259, 150-161.	1.1	4
133	Composition of the northern regions of Vesta analyzed by the Dawn mission. Icarus, 2015, 259, 53-71.	1.1	25
134	Dielectric properties of Asteroid Vestaâ€™s surface as constrained by Dawn VIR observations. Icarus, 2015, 262, 93-101.	1.1	10
135	The diurnal cycle of water ice on comet 67P/Churyumovâ€“Gerasimenko. Nature, 2015, 525, 500-503.	13.7	199
136	VIRTIS on Rosetta: a unique technique to observe comet 67P/Churyumov-Gerasimenko â€“ first results and prospects. Proceedings of SPIE, 2015, , .	0.8	4
137	Mineralogy of Marcia, the youngest large crater of Vesta: Character and distribution of pyroxenes and hydrated material. Icarus, 2015, 248, 392-406.	1.1	9
138	Detections and geologic context of local enrichments in olivine on Vesta with VIR/Dawn data. Journal of Geophysical Research E: Planets, 2014, 119, 2078-2108.	1.5	33
139	The exploration of Titan with an orbiter and a lake probe. Planetary and Space Science, 2014, 104, 78-92.	0.9	26
140	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	0.9	56
141	Composition and mineralogy of dark material units on Vesta. Icarus, 2014, 240, 58-72.	1.1	41
142	Thermal measurements of dark and bright surface features on Vesta as derived from Dawn/VIR. Icarus, 2014, 240, 36-57.	1.1	52
143	Spectroscopic classification of icy satellites of Saturn II: Identification of terrain units on Rhea. Icarus, 2014, 234, 1-16.	1.1	26
144	Geologic mapping of ejecta deposits in Oppia Quadrangle, Asteroid (4) Vesta. Icarus, 2014, 244, 104-119.	1.1	13

#	Article	IF	Citations
145	Iapetusâ€™ near surface thermal emission modeled and constrained using Cassini RADAR Radiometer microwave observations. Icarus, 2014, 241, 221-238.	1.1	20
146	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.	0.9	6
147	The unique geomorphology and physical properties of the Vestalia Terra plateau. Icarus, 2014, 244, 89-103.	1.1	33
148	Photometric behavior of spectral parameters in Vesta dark and bright regions as inferred by the Dawn VIR spectrometer. Icarus, 2014, 240, 20-35.	1.1	51
149	Spectral analysis of the bright materials on the asteroid Vesta. Icarus, 2014, 240, 73-85.	1.1	26
150	Small fresh impact craters on asteroid 4 Vesta: A compositional and geological fingerprint. Journal of Geophysical Research E: Planets, 2014, 119, 771-797.	1.5	12
151	Compositional evidence of magmatic activity on Vesta. Geophysical Research Letters, 2014, 41, 3038-3044.	1.5	12
152	Spectroscopic classification of icy satellites of saturn â€" Identification of terrain units on dione and rhea. , 2014, , .		0
153	Testing linear spectral unmixing on laboratory mixtures: Application to VIR data for asteroid Vesta. , 2014, , .		0
154	Vesta surface thermal properties map. Geophysical Research Letters, 2014, 41, 1438-1443.	1.5	46
155	JUpiter ICy moons Explorer (JUICE): An ESA mission to orbit Ganymede and to characterise the Jupiter system. Planetary and Space Science, 2013, 78, 1-21.	0.9	455
156	Spectroscopic classification of icy satellites of Saturn I: Identification of terrain units on Dione. Icarus, 2013, 226, 1331-1349.	1.1	22
157	Comparative analysis of airglow emissions in terrestrial planets, observed with VIRTIS-M instruments on board Rosetta and Venus Express. Icarus, 2013, 226, 1115-1127.	1.1	11
158	Energetic neutral particles detection in the environment of Jupiterâ€™s icy moons: Ganymedeâ€™s and Europaâ€™s neutral imaging experiment (GENIE). Planetary and Space Science, 2013, 88, 53-63.	0.9	6
159	THE RADIAL DISTRIBUTION OF WATER ICE AND CHROMOPHORES ACROSS SATURN'S SYSTEM. Astrophysical Journal, 2013, 766, 76.	1.6	26
160	Vestan lithologies mapped by the visual and infrared spectrometer on Dawn. Meteoritics and Planetary Science, 2013, 48, 2185-2198.	0.7	75
161	Vesta's mineralogical composition as revealed by the visible and infrared spectrometer on Dawn. Meteoritics and Planetary Science, 2013, 48, 2166-2184.	0.7	87
162	Olivine in an unexpected location on Vestaâ€™s surface. Nature, 2013, 504, 122-125.	13.7	82

#	Article	IF	Citations
163	Composition of the Rheasilvia basin, a window into Vesta's interior. Journal of Geophysical Research E: Planets, 2013, 118, 335-346.	1.5	84
164	Thermal analysis of unusual local-scale features on the surface of Vesta. , 2013, , .		0
165	Dark material on Vesta from the infall of carbonaceous volatile-rich material. Nature, 2012, 491, 83-86.	13.7	151
166	Pitted Terrain on Vesta and Implications for the Presence of Volatiles. Science, 2012, 338, 246-249.	6.0	91
167	Saturnâ€™s icy satellites and rings investigated by Cassiniâ€“VIMS: III â€“ Radial compositional variability. Icarus, 2012, 220, 1064-1096.	1.1	86
168	Interpretation of combined infrared, submillimeter, and millimeter thermal flux data obtained during the Rosetta fly-by of Asteroid (21) Lutetia. Icarus, 2012, 221, 395-404.	1.1	47
169	DETECTION OF WIDESPREAD HYDRATED MATERIALS ON VESTA BY THE VIR IMAGING SPECTROMETER ON BOARD THE DAWN MISSION. Astrophysical Journal Letters, 2012, 758, L36.	3.0	117
170	Spectroscopic Characterization of Mineralogy and Its Diversity Across Vesta. Science, 2012, 336, 697-700.	6.0	240
171	Mapping Titan's surface features within the visible spectrum via Cassini VIMS. Planetary and Space Science, 2012, 60, 52-61.	0.9	25
172	The light curve of asteroid 21 Lutetia measured by VIRTIS-M during the Rosetta fly-by. Planetary and Space Science, 2012, 66, 9-22.	0.9	12
173	Thermal properties of the asteroid (2867) Steins as observed by VIRTIS/Rosetta. Astronomy and Astrophysics, 2011, 531, A168.	2.1	29
174	Hapke modeling of Rhea surface properties through Cassini-VIMS spectra. Icarus, 2011, 214, 541-555.	1.1	64
175	The Surface Composition and Temperature of Asteroid 21 Lutetia As Observed by Rosetta/VIRTIS. Science, 2011, 334, 492-494.	6.0	110
176	Correlations between VIMS and RADAR data over the surface of Titan: Implications for Titanâ€™s surface properties. Icarus, 2010, 208, 366-384.	1.1	8
177	The light curve of asteroid 2867 Steins measured by VIRTIS-M during the Rosetta fly-by. Planetary and Space Science, 2010, 58, 1066-1076.	0.9	11
178	A tropical haze band in Titanâ€™s stratosphere. Icarus, 2010, 207, 485-490.	1.1	16
179	Saturnâ€™s icy satellites investigated by Cassiniâ€“VIMS. Icarus, 2010, 206, 507-523.	1.1	47
180	Probing the origin of the dark material on Iapetus. Monthly Notices of the Royal Astronomical Society, 2010, 403, 1113-1130.	1.6	38

#	Article	IF	Citations
181	The spectrum of a Saturn ring spoke from Cassini/VIMS. Geophysical Research Letters, 2010, 37, .	1.5	6
182	Martian atmosphere as observed by VIRTISâ€M on Rosetta spacecraft. Journal of Geophysical Research, 2010, 115, .	3.3	10
183	VIMS spectral mapping observations of Titan during the Cassini prime mission. Planetary and Space Science, 2009, 57, 1950-1962.	0.9	28
184	Saturn Satellites as Seen by Cassini Mission. Earth, Moon and Planets, 2009, 105, 289-310.	0.3	4
185	LAPLACE: A mission to Europa and the Jupiter System for ESAâ€™s Cosmic Vision Programme. Experimental Astronomy, 2009, 23, 849-892.	1.6	38
186	A new perspective on the irregular satellites of Saturn - II. Dynamical and physical origin. Monthly Notices of the Royal Astronomical Society, 2009, 392, 455-474.	1.6	21
187	VIRTIS: An Imaging Spectrometer for the ROSETTA Mission. , 2009, , 563-585.		3
188	Identification of spectral units on Phoebe. Icarus, 2008, 193, 233-251.	1.1	32
189	Saturn's icy satellites investigated by Cassini-VIMS. Icarus, 2007, 186, 259-290.	1.1	62
190	Surface composition of Hyperion. Nature, 2007, 448, 54-56.	13.7	56
191	A dynamic upper atmosphere of Venus as revealed by VIRTIS on Venus Express. Nature, 2007, 450, 641-645.	13.7	95
192	South-polar features on Venus similar to those near the north pole. Nature, 2007, 450, 637-640.	13.7	110
193	G-MODE CLASSIFICATION OF SPECTROSCOPIC DATA. Earth, Moon and Planets, 2006, 96, 165-197.	0.3	8
194	The temporal evolution of exposed water ice-rich areas on the surface of 67P/Churyumov-Gerasimenko: spectral analysis. Monthly Notices of the Royal Astronomical Society, 0, , stw3281.	1.6	13
195	and seasonal variability. Monthly Notices of the Royal Astronomical Society, 0, , stw3177.	1.6	10
196	GAUSS - genesis of asteroids and evolution of the solar system. Experimental Astronomy, 0, , 1.	1.6	5