

Maria Teresa Capria

List of Publications by Year in descending order

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91
papers

4,620
citations

101543

36
h-index

102487

66
g-index

92
all docs

92
docs citations

92
times ranked

2512
citing authors

#	ARTICLE	IF	CITATIONS
1	The organic-rich surface of comet 67P/Churyumov-Gerasimenko as seen by VIRTIS/Rosetta. <i>Science</i> , 2015, 347, aaa0628.	12.6	293
2	Ammoniated phyllosilicates with a likely outer Solar System origin on (1) Ceres. <i>Nature</i> , 2015, 528, 241-244.	27.8	276
3	Spectroscopic Characterization of Mineralogy and Its Diversity Across Vesta. <i>Science</i> , 2012, 336, 697-700.	12.6	240
4	Bright carbonate deposits as evidence of aqueous alteration on (1) Ceres. <i>Nature</i> , 2016, 536, 54-57.	27.8	240
5	The VIR Spectrometer. <i>Space Science Reviews</i> , 2011, 163, 329-369.	8.1	217
6	The diurnal cycle of water ice on comet 67P/Churyumov-Gerasimenko. <i>Nature</i> , 2015, 525, 500-503.	27.8	199
7	Virtis: An Imaging Spectrometer for the Rosetta Mission. <i>Space Science Reviews</i> , 2007, 128, 529-559.	8.1	181
8	Distribution of phyllosilicates on the surface of Ceres. <i>Science</i> , 2016, 353, .	12.6	159
9	Localized aliphatic organic material on the surface of Ceres. <i>Science</i> , 2017, 355, 719-722.	12.6	152
10	Dark material on Vesta from the infall of carbonaceous volatile-rich material. <i>Nature</i> , 2012, 491, 83-86.	27.8	151
11	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
12	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
13	Exposed water ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Nature</i> , 2016, 529, 368-372.	27.8	104
14	Pitted Terrain on Vesta and Implications for the Presence of Volatiles. <i>Science</i> , 2012, 338, 246-249.	12.6	91
15	Nature, formation, and distribution of carbonates on Ceres. <i>Science Advances</i> , 2018, 4, e1701645.	10.3	83
16	Olivine in an unexpected location on Vesta's surface. <i>Nature</i> , 2013, 504, 122-125.	27.8	82
17	TandEM: Titan and Enceladus mission. <i>Experimental Astronomy</i> , 2009, 23, 893-946.	3.7	77
18	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

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19	Thermal Evolution and Differentiation of Edgeworthâ€™Kuiper Belt Objects. <i>Astronomical Journal</i> , 2001, 121, 2792-2799.	4.7	68
20	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
21	Interpretation of thermal emission. I. The effect of roughness for spatially resolved atmosphereless bodies. <i>Icarus</i> , 2015, 252, 1-21.	2.5	62
22	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
23	Mineralogical characterization of some basaltic asteroids in the neighborhood of (4) Vesta: first results. <i>Icarus</i> , 2004, 171, 120-132.	2.5	61
24	Investigation into the disparate origin of CO ₂ and H ₂ O outgassing for Comet 67/P. <i>Icarus</i> , 2016, 277, 78-97.	2.5	61
25	Seasonal exposure of carbon dioxide ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2016, 354, 1563-1566.	12.6	61
26	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
27	Asteroid Thermophysical Modeling. , 2015, , .		55
28	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
29	Spin Temperatures of Ammonia and Water Molecules in Comets. <i>Astrophysical Journal</i> , 2004, 601, 1152-1158.	4.5	51
30	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	47
31	Vesta surface thermal properties map. <i>Geophysical Research Letters</i> , 2014, 41, 1438-1443.	4.0	46
32	Variations in the amount of water ice on Ceresâ€™ surface suggest a seasonal water cycle. <i>Science Advances</i> , 2018, 4, eaao3757.	10.3	43
33	Thermal inertia and roughness of the nucleus of comet 67P/Churyumovâ€™Gerasimenko from MIRO and VIRTIS observations. <i>Astronomy and Astrophysics</i> , 2018, 616, A122.	5.1	42
34	Composition and mineralogy of dark material units on Vesta. <i>Icarus</i> , 2014, 240, 58-72.	2.5	41
35	Shape and obliquity effects on the thermal evolution of the Rosetta target 67P/Churyumov-Gerasimenko cometary nucleus. <i>Icarus</i> , 2010, 207, 341-358.	2.5	38
36	Spectral and mineralogical characterization of inner main-belt V-type asteroids. <i>Astronomy and Astrophysics</i> , 2011, 533, A77.	5.1	38

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37	Detection of new olivine-rich locations on Vesta. <i>Icarus</i> , 2015, 258, 120-134.	2.5	37
38	Ceres water regime: surface temperature, water sublimation and transient exo(atmo)sphere. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1892-1904.	4.4	35
39	Thermal evolution model of 67P/Churyumov-Gerasimenko, the new Rosetta target. <i>Astronomy and Astrophysics</i> , 2005, 444, 605-614.	5.1	35
40	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
41	Thermal evolution and differentiation of a short-period comet. <i>Planetary and Space Science</i> , 1993, 41, 409-427.	1.7	33
42	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
43	Compositional differences among Bright Spots on the Ceres surface. <i>Icarus</i> , 2019, 320, 202-212.	2.5	33
44	Exploring the asteroid belt with ion propulsion: Dawn mission history, status and plans. <i>Advances in Space Research</i> , 2007, 40, 193-201.	2.6	32
45	Mineralogical characterization of some V-type asteroids, in support of the NASA "Dawn" mission... <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 412, 2318-2332.	4.4	30
46	The activity of main belt comets. <i>Astronomy and Astrophysics</i> , 2012, 537, A71.	5.1	27
47	Spectral analysis of the bright materials on the asteroid Vesta. <i>Icarus</i> , 2014, 240, 73-85.	2.5	26
48	How pristine is the interior of the comet 67P/Churyumov-Gerasimenko?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S685-S694.	4.4	22
49	Mineralogy and temperature of crater Haulani on Ceres. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1902-1924.	1.6	21
50	$O(\text{I})$ and $O(\text{II})$ emission lines in the spectrum of 153P/2002 C1 (Ikeya-Zhang). <i>Astronomy and Astrophysics</i> , 2005, 442, 1121-1126.	5.1	20
51	Macro and micro structures of pebble-made cometary nuclei reconciled by seasonal evolution. <i>Nature Astronomy</i> , 2022, 6, 546-553.	10.1	20
52	C/1995 O1 Hale-Bopp: Short and Long Distance activity from a Theoretical Model. <i>Earth, Moon and Planets</i> , 2002, 90, 217-225.	0.6	18
53	Modelling of cometary nuclei: Planetary missions preparation. <i>Advances in Space Research</i> , 2003, 31, 2543-2553.	2.6	17
54	Catalog of the emission lines in the visible spectrum of comet 153P/Ikeya-Zhang. <i>Astronomy and Astrophysics</i> , 2007, 461, 789-792.	5.1	17

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55	VIRTIS-H observations of the dust coma of comet 67P/Churyumov-Gerasimenko: spectral properties and color temperature variability with phase and elevation. <i>Astronomy and Astrophysics</i> , 2019, 630, A22.	5.1	17
56	Photometry of Ceres and Occator faculae as inferred from VIR/Dawn data. <i>Icarus</i> , 2019, 320, 97-109.	2.5	17
57	MA_MISS: Mars multispectral imager for subsurface studies. <i>Advances in Space Research</i> , 2001, 28, 1203-1208.	2.6	16
58	P/Wirtanen thermal evolution: effects due to the presence of an organic component in the refractory material. <i>Planetary and Space Science</i> , 2001, 49, 907-918.	1.7	16
59	Photometric behaviour of 67P/Churyumov-Gerasimenko and analysis of its pre-perihelion diurnal variations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S346-S356.	4.4	16
60	Exocomets from a Solar System Perspective. <i>Publications of the Astronomical Society of the Pacific</i> , 2020, 132, 101001.	3.1	16
61	Sublimation Mechanisms of Comet Nuclei. <i>Earth, Moon and Planets</i> , 2000, 89, 161-178.	0.6	15
62	SEASONAL EFFECTS ON COMET NUCLEI EVOLUTION: ACTIVITY, INTERNAL STRUCTURE, AND DUST MANTLE FORMATION. <i>Astronomical Journal</i> , 2010, 140, 1-13.	4.7	14
63	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
64	Compositional evidence of magmatic activity on Vesta. <i>Geophysical Research Letters</i> , 2014, 41, 3038-3044.	4.0	12
65	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
66	Planetary Science Virtual Observatory architecture. <i>Astronomy and Computing</i> , 2014, 7-8, 71-80.	1.7	10
67	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
68	High Thermal Inertia Zones on Ceres From Dawn Data. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2018JE005733.	3.6	9
69	Models of P/Borrelly: Activity and dust mantle formation. <i>Advances in Space Research</i> , 2003, 31, 2519-2525.	2.6	8
70	67P/Churyumov-Gerasimenko nucleus model: Portrayal of the Rosetta target. <i>Advances in Space Research</i> , 2006, 38, 1906-1910.	2.6	8
71	The SSDC contribution to the improvement of knowledge by means of 3D data projections of minor bodies. <i>Advances in Space Research</i> , 2018, 62, 2306-2316.	2.6	8
72	Analysis of night-side dust activity on comet 67P observed by VIRTIS-M: a new method to constrain the thermal inertia on the surface. <i>Astronomy and Astrophysics</i> , 2019, 630, A21.	5.1	8

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73	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.	4.4	8
74	Mineralogical mapping of the Kerwan quadrangle on Ceres. Icarus, 2019, 318, 188-194.	2.5	8
75	Mapping the elemental composition of Ceres and Vesta: Dawn's gamma ray and neutron detector. , 2004, , .		7
76	Investigating the Rosetta/TOF observations of comet 67P/Churyumov-Gerasimenko using a comet nucleus model: influence of dust mantle and trapped CO. Astronomy and Astrophysics, 2020, 638, A106.	5.1	7
77	V-type asteroids: A mineralogical study. Advances in Space Research, 2006, 38, 1987-1990.	2.6	6
78	Thermal modeling of the active Centaur P/2004 A1 (LONEOS). Astronomy and Astrophysics, 2009, 504, 249-258.	5.1	6
79	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.	2.5	6
80	SIMBIO-SYS/STC stereo camera calibration: Geometrical distortion. Review of Scientific Instruments, 2019, 90, 043106.	1.3	6
81	Mineralogy of the Urvaraâ€™Yalode region on Ceres. Icarus, 2019, 318, 241-250.	2.5	6
82	MARS-IRMA: in-situ infrared microscope analysis of Martian soil and rock samples.. Advances in Space Research, 2001, 28, 1219-1224.	2.6	5
83	A model of the activity of comet wild 2. Advances in Space Research, 2002, 29, 709-714.	2.6	5
84	Performance evaluation of the SIMBIO-SYS Stereo Imaging Channel on board BepiColombo/ESA spacecraft. Measurement: Journal of the International Measurement Confederation, 2019, 135, 828-835.	5.0	5
85	The VIR Spectrometer. , 2010, , 329-369.		4
86	Data mining and visualization from planetary missions: the VESPA-Europlanet2020 activity. Proceedings of the International Astronomical Union, 2016, 12, 316-319.	0.0	2
87	Numerical simulations of the radiance from the comet 46P/Wirtanen in the various configurations of the measurements during â€™Rosettaâ€™ mission. Advances in Space Research, 2003, 31, 2501-2510.	2.6	1
88	The interior of outer Solar System bodies. Proceedings of the International Astronomical Union, 2005, 1, 395-411.	0.0	1
89	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
90	IDIS Small Bodies and Dust Node: Technical innovation and science. Advances in Space Research, 2015, 55, 747-752.	2.6	0

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91	Thermal inertia of Occator's faculae on Ceres. Planetary and Space Science, 2021, 205, 105285.	1.7	0