Francesca Zambon

List of Publications by Year
in descending order

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77	2,968	172443	168376
papers	citations	29 h-index	53 g-index

90	90	90	1593
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Ammoniated phyllosilicates with a likely outer Solar System origin on (1) Ceres. Nature, 2015, 528, 241-244.	27.8	276
2	Spectroscopic Characterization of Mineralogy and Its Diversity Across Vesta. Science, 2012, 336, 697-700.	12.6	240
3	Bright carbonate deposits as evidence of aqueous alteration on (1) Ceres. Nature, 2016, 536, 54-57.	27.8	240
4	Distribution of phyllosilicates on the surface of Ceres. Science, 2016, 353, .	12.6	159
5	Localized aliphatic organic material on the surface of Ceres. Science, 2017, 355, 719-722.	12.6	152
6	DETECTION OF WIDESPREAD HYDRATED MATERIALS ON VESTA BY THE VIR IMAGING SPECTROMETER ON BOARD THE DAWN MISSION. Astrophysical Journal Letters, 2012, 758, L36.	8.3	117
7	Vesta's mineralogical composition as revealed by the visible and infrared spectrometer on Dawn. Meteoritics and Planetary Science, 2013, 48, 2166-2184.	1.6	87
8	Composition of the Rheasilvia basin, a window into Vesta's interior. Journal of Geophysical Research E: Planets, 2013, 118, 335-346.	3.6	84
9	Nature, formation, and distribution of carbonates on Ceres. Science Advances, 2018, 4, e1701645.	10.3	83
10	Olivine in an unexpected location on Vestaâ€™s surface. Nature, 2013, 504, 122-125.	27.8	82
11	Vestan lithologies mapped by the visual and infrared spectrometer on Dawn. Meteoritics and Planetary Science, 2013, 48, 2185-2198.	1.6	75
12	Spectral analysis of Ahuna Mons from Dawn mission's visibleâ€infrared spectrometer. Geophysical Research Letters, 2017, 44, 97-104.	4.0	74
13	Spectrophotometric properties of dwarf planet Ceres from the VIR spectrometer on board the Dawn mission. Astronomy and Astrophysics, 2017, 598, A130.	5.1	69
14	Mineralogy of Occator crater on Ceres and insight into its evolution from the properties of carbonates, phyllosilicates, and chlorides. Icarus, 2019, 320, 83-96.	2.5	63
15	Fresh emplacement of hydrated sodium chloride on Ceres from ascending salty fluids. Nature Astronomy, 2020, 4, 786-793.	10.1	60
16	Thermal measurements of dark and bright surface features on Vesta as derived from Dawn/VIR. Icarus, 2014, 240, 36-57.	2.5	52
17	Photometric behavior of spectral parameters in Vesta dark and bright regions as inferred by the Dawn VIR spectrometer. Icarus, 2014, 240, 20-35.	2.5	51
18	Cryogenic flow features on Ceres: Implications for craterâ€related cryovolcanism. Geophysical Research Letters, 2016, 43, 11,994.	4.0	48

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19	Pitted terrains on (1) Ceres and implications for shallow subsurface volatile distribution. Geophysical Research Letters, 2017, 44, 6570-6578.	4.0	48
20	Exposed H2O-rich areas detected on Ceres with the dawn visible and infrared mapping spectrometer. Icarus, 2019, 318, 22-41.	2.5	47
21	SIMBIO-SYS: Scientific Cameras and Spectrometer for the BepiColombo Mission. Space Science Reviews, 2020, 216, 1.	8.1	47
22	Vesta surface thermal properties map. Geophysical Research Letters, 2014, 41, 1438-1443.	4.0	46
23	Rationale for BepiColombo Studies of Mercuryâ€™s Surface and Composition. Space Science Reviews, 2020, 216, 1.	8.1	46
24	Variations in the amount of water ice on Ceresâ€™ surface suggest a seasonal water cycle. Science Advances, 2018, 4, eaao3757.	10.3	43
25	Composition and mineralogy of dark material units on Vesta. Icarus, 2014, 240, 58-72.	2.5	41
26	Detection of new olivine-rich locations on Vesta. Icarus, 2015, 258, 120-134.	2.5	37
27	Geologic constraints on the origin of red organicâ€rich material on Ceres. Meteoritics and Planetary Science, 2018, 53, 1983-1998.	1.6	34
28	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.	3.6	33
29	Compositional differences among Bright Spots on the Ceres surface. Icarus, 2019, 320, 202-212.	2.5	33
30	An investigation of the bluish material on Ceres. Geophysical Research Letters, 2017, 44, 1660-1668.	4.0	29
31	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.	1.6	29
32	Spectral analysis of the bright materials on the asteroid Vesta. Icarus, 2014, 240, 73-85.	2.5	26
33	Mineralogy and temperature of crater Haulani on Ceres. Meteoritics and Planetary Science, 2018, 53, 1902-1924.	1.6	21
34	Mineralogical mapping of Coniraya quadrangle of the dwarf planet Ceres. Icarus, 2019, 318, 99-110.	2.5	20
35	Mineralogical and spectral analysis of Vestaâ€™s Gegania and Lucaria quadrangles and comparative analysis of their key features. Icarus, 2015, 259, 72-90.	2.5	19
36	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.	2.5	19

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37	Photometry of Ceres and Occator faculae as inferred from VIR/Dawn data. Icarus, 2019, 320, 97-109.	2.5	17
38	Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006508.	3.6	16
39	Mineralogical analysis of the Oppia quadrangle of asteroid (4) Vesta: Evidence for occurrence of moderate-reflectance hydrated minerals. Icarus, 2015, 259, 129-149.	2.5	15
40	The surface composition of Ceres from the Dawn mission. Icarus, 2019, 318, 2-13.	2.5	15
41	The spectral parameter maps of Vesta from VIR data. Icarus, 2015, 259, 10-20.	2.5	14
42	Small fresh impact craters on asteroid 4 Vesta: A compositional and geological fingerprint. Journal of Geophysical Research E: Planets, 2014, 119, 771-797.	3.6	12
43	Compositional evidence of magmatic activity on Vesta. Geophysical Research Letters, 2014, 41, 3038-3044.	4.0	12
44	Organic Material on Ceres: Insights from Visible and Infrared Space Observations. Life, 2021, 11, 9.	2.4	12
45	Disk-resolved photometry of Vesta and Lutetia and comparison with other asteroids. Icarus, 2016, 267, 204-216.	2.5	11
46	Mineralogical analysis of the Ac-H-6 Haulani quadrangle of the dwarf planet Ceres. Icarus, 2019, 318, 170-187.	2.5	11
47	Mineralogy of the Occator quadrangle. Icarus, 2019, 318, 205-211.	2.5	11
48	Ceresâ€™ impact craters â€“ Relationships between surface composition and geology. Icarus, 2019, 318, 56-74.	2.5	11
49	Dantu's mineralogical properties â€“ A view into the composition of Ceres' crust. Meteoritics and Planetary Science, 2018, 53, 1866-1883.	1.6	10
50	Global Spectral Properties and Lithology of Mercury: The Example of the Shakespeare (Hâ€03) Quadrangle. Journal of Geophysical Research E: Planets, 2019, 124, 2326-2346.	3.6	10
51	Spectral analysis of the quadrangles Av-13 and Av-14 on Vesta. Icarus, 2015, 259, 181-193.	2.5	9
52	Mineralogy of Marcia, the youngest large crater of Vesta: Character and distribution of pyroxenes and hydrated material. Icarus, 2015, 248, 392-406.	2.5	9
53	Lithologic variation within bright material on Vesta revealed by linear spectral unmixing. Icarus, 2016, 272, 16-31.	2.5	9
54	Optical space weathering on Vesta: Radiative-transfer models and Dawn observations. Icarus, 2016, 265, 161-174.	2.5	9

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55	The spectral parameter maps of Ceres from NASA/DAWN VIR data. Icarus, 2019, 318, 14-21.	2.5	9
56	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.	2.5	9
57	On the asymmetry of Nathair Facula, Mercury. Icarus, 2021, 355, 114180.	2.5	9
58	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.	2.5	8
59	Northwest Africa 6232: Visibleâ€“near infrared reflectance spectra variability of an olivine diogenite. Meteoritics and Planetary Science, 2018, 53, 2228-2242.	1.6	8
60	Mineralogical analysis of quadrangle Ac-H-10 Rongo on the dwarf planet Ceres. Icarus, 2019, 318, 212-229.	2.5	8
61	Mineralogical mapping of the Kerwan quadrangle on Ceres. Icarus, 2019, 318, 188-194.	2.5	8
62	Mapping Io's Surface Composition With Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006522.	3.6	8
63	Ceres observed at low phase angles by VIR-Dawn. Astronomy and Astrophysics, 2020, 634, A39.	5.1	8
64	Spectral Units Analysis of Quadrangle H05â€Hokusai on Mercury. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	7
65	Mineralogic mapping of the Av-9 Numisia quadrangle of Vesta. Icarus, 2015, 259, 116-128.	2.5	6
66	Mineralogy of the Urvaraâ€“Yalode region on Ceres. Icarus, 2019, 318, 241-250.	2.5	6
67	The surface composition of Ceresâ€™ Ezinu quadrangle analyzed by the Dawn mission. Icarus, 2019, 318, 124-146.	2.5	6
68	Spectral investigation of quadrangle AC-H 3 of the dwarf planet Ceres â€“ The region of impact crater Dantu. Icarus, 2019, 318, 111-123.	2.5	5
69	Vestaâ€™s Pinaria region: Original basaltic achondrite material derived from mixing upper and lower crust. Icarus, 2015, 259, 150-161.	2.5	4
70	Ringâ€Mold Craters on Ceres: Evidence for Shallow Subsurface Water Ice Sources. Geophysical Research Letters, 2018, 45, 8121-8128.	4.0	3
71	MINERALOGICAL MAPPING OF THE OCCATOR QUADRANGLE. , 2016, , .		2
72	The mineralogy of Ceresâ€™ Nawish quadrangle. Icarus, 2019, 318, 195-204.	2.5	1

#	Article	IF	Citations
73	Surface composition of dwarf planet Ceres: Constraints from the Dawn spacecraft mission. Icarus, 2019, 318, 1.	2.5	1
74	Mineralogy mapping of the Ac-H-5 Fejokoo quadrangle of Ceres. Icarus, 2019, 318, 147-169.	2.5	1
75	MINERALOGICAL ANALYSIS OF THE QUADRANGLES AC-11 SINTANA AND AC-12 TOHARU ON THE DWARF PLANET CERES. , 2016, , .		1
76	Thermal analysis of unusual local-scale features on the surface of Vesta. , 2013, , .		0
77	Testing linear spectral unmixing on laboratory mixtures: Application to VIR data for asteroid Vesta. , 2014, , .		0