

Andrea Raponi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9572984/publications.pdf>

Version: 2024-02-01

80
papers

3,311
citations

172457

29
h-index

149698

56
g-index

82
all docs

82
docs citations

82
times ranked

1728
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	Bright carbonate deposits as evidence of aqueous alteration on (1) Ceres. <i>Nature</i> , 2016, 536, 54-57.	27.8	240
4	The diurnal cycle of water ice on comet 67P/Churyumov-Gerasimenko. <i>Nature</i> , 2015, 525, 500-503.	27.8	199
5	Distribution of phyllosilicates on the surface of Ceres. <i>Science</i> , 2016, 353, .	12.6	159
6	Localized aliphatic organic material on the surface of Ceres. <i>Science</i> , 2017, 355, 719-722.	12.6	152
7	Detection of local H ₂ O exposed at the surface of Ceres. <i>Science</i> , 2016, 353, .	12.6	128
8	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
9	Ammonium salts are a reservoir of nitrogen on a cometary nucleus and possibly on some asteroids. <i>Science</i> , 2020, 367, .	12.6	115
10	Exposed water ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Nature</i> , 2016, 529, 368-372.	27.8	104
11	Nature, formation, and distribution of carbonates on Ceres. <i>Science Advances</i> , 2018, 4, e1701645.	10.3	83
12	Spectral analysis of Ahuna Mons from Dawn mission's visible-infrared spectrometer. <i>Geophysical Research Letters</i> , 2017, 44, 97-104.	4.0	74
13	Photometric properties of comet 67P/Churyumov-Gerasimenko from VIRTIS-M onboard Rosetta. <i>Astronomy and Astrophysics</i> , 2015, 583, A31.	5.1	71
14	Spectrophotometric properties of dwarf planet Ceres from the VIR spectrometer on board the Dawn mission. <i>Astronomy and Astrophysics</i> , 2017, 598, A130.	5.1	69
15	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
16	Mineralogy of Occator crater on Ceres and insight into its evolution from the properties of carbonates, phyllosilicates, and chlorides. <i>Icarus</i> , 2019, 320, 83-96.	2.5	63
17	An aqueously altered carbon-rich Ceres. <i>Nature Astronomy</i> , 2019, 3, 140-145.	10.1	62
18	Seasonal exposure of carbon dioxide ice on the nucleus of comet 67P/Churyumov-Gerasimenko. <i>Science</i> , 2016, 354, 1563-1566.	12.6	61

#	ARTICLE	IF	CITATIONS
19	Fresh emplacement of hydrated sodium chloride on Ceres from ascending salty fluids. <i>Nature Astronomy</i> , 2020, 4, 786-793.	10.1	60
20	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
21	Exposed H ₂ O-rich areas detected on Ceres with the dawn visible and infrared mapping spectrometer. <i>Icarus</i> , 2019, 318, 22-41.	2.5	47
22	Artifacts reduction in VIR/Dawn data. <i>Review of Scientific Instruments</i> , 2016, 87, 124501.	1.3	44
23	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
24	Infrared detection of aliphatic organics on a cometary nucleus. <i>Nature Astronomy</i> , 2020, 4, 500-505.	10.1	41
25	The Philae lander reveals low-strength primitive ice inside cometary boulders. <i>Nature</i> , 2020, 586, 697-701.	27.8	40
26	An orbital water-ice cycle on comet 67P from colour changes. <i>Nature</i> , 2020, 578, 49-52.	27.8	36
27	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
28	Compositional differences among Bright Spots on the Ceres surface. <i>Icarus</i> , 2019, 320, 202-212.	2.5	33
29	Comet 67P/CG Nucleus Composition and Comparison to Other Comets. <i>Space Science Reviews</i> , 2019, 215, 1.	8.1	32
30	Characteristics of organic matter on Ceres from VIR/Dawn high spatial resolution spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 2407-2421.	4.4	30
31	Ceres's global and localized mineralogical composition determined by Dawn's Visible and Infrared Spectrometer (<scp>VIR</scp>). <i>Meteoritics and Planetary Science</i> , 2018, 53, 1844-1865.	1.6	29
32	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
33	How pristine is the interior of the comet 67P/Churyumov's™Gerasimenko?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S685-S694.	4.4	22
34	Mineralogy and temperature of crater Haulani on Ceres. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1902-1924.	1.6	21
35	Summer outbursts in the coma of comet 67P/Churyumov's™Gerasimenko as observed by Rosetta's™VIRTIS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 1235-1250.	4.4	20
36	Mineralogical mapping of Coniraya quadrangle of the dwarf planet Ceres. <i>Icarus</i> , 2019, 318, 99-110.	2.5	20

#	ARTICLE	IF	CITATIONS
37	Macro and micro structures of pebble-made cometary nuclei reconciled by seasonal evolution. <i>Nature Astronomy</i> , 2022, 6, 546-553.	10.1	20
38	Synthesis of the special issue: The formation and evolution of Ceres's Occator crater. <i>Icarus</i> , 2019, 320, 213-225.	2.5	17
39	Photometry of Ceres and Occator faculae as inferred from VIR/Dawn data. <i>Icarus</i> , 2019, 320, 97-109.	2.5	17
40	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
41	Serendipitous infrared observations of Europa by Juno/JIRAM. <i>Icarus</i> , 2019, 328, 1-13.	2.5	15
42	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
43	Thermal Stability of Water Ice in Ceres' Craters: The Case of Juling Crater. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2445-2463.	3.6	13
44	Organic Material on Ceres: Insights from Visible and Infrared Space Observations. <i>Life</i> , 2021, 11, 9.	2.4	12
45	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
46	Mineralogical analysis of the Ac-H-6 Haulani quadrangle of the dwarf planet Ceres. <i>Icarus</i> , 2019, 318, 170-187.	2.5	11
47	Mineralogy of the Occator quadrangle. <i>Icarus</i> , 2019, 318, 205-211.	2.5	11
48	A Probabilistic Approach to Determination of Ceres' Average Surface Composition From Dawn Visible-Infrared Mapping Spectrometer and Gamma Ray and Neutron Detector Data. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006606.	3.6	11
49	and seasonal variability. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stw3177.	4.4	10
50	The spectral parameter maps of Ceres from NASA/DAWN VIR data. <i>Icarus</i> , 2019, 318, 14-21.	2.5	9
51	Correction of the VIR-visible data set from the Dawn mission. <i>Review of Scientific Instruments</i> , 2019, 90, 123110.	1.3	9
52	Ac-H-11 Sintana and Ac-H-12 Toharu quadrangles: Assessing the large and small scale heterogeneities of Ceres's surface. <i>Icarus</i> , 2019, 318, 230-240.	2.5	9
53	High Thermal Inertia Zones on Ceres From Dawn Data. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2018JE005733.	3.6	9
54	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

#	ARTICLE	IF	CITATIONS
55	67P/Churyumovâ€™Gerasimenko active areas before perihelion identified by GIADA and VIRTIS data fusion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 2165-2176.	4.4	8
56	Mineralogical analysis of quadrangle Ac-H-10 Rongo on the dwarf planet Ceres. <i>Icarus</i> , 2019, 318, 212-229.	2.5	8
57	Mineralogical mapping of the Kerwan quadrangle on Ceres. <i>Icarus</i> , 2019, 318, 188-194.	2.5	8
58	Ceres observed at low phase angles by VIR-Dawn. <i>Astronomy and Astrophysics</i> , 2020, 634, A39.	5.1	8
59	The surface of (1) Ceres in visible light as seen by Dawn/VIR. <i>Astronomy and Astrophysics</i> , 2020, 642, A74.	5.1	8
60	Continuum definition for $\lambda/4$ 3.1, $\lambda/4$ 3.4 and $\lambda/4$ 4.0 \AA absorption bands in Ceres spectra and evaluation of effects of smoothing procedure in the retrieved spectral parameters. <i>Advances in Space Research</i> , 2018, 62, 2342-2354.	2.6	7
61	Surface temperatures and water ice sublimation rate of Oxo crater: a comparison with Juling crater. <i>Journal of Geophysical Research E: Planets</i> , 2018, 124, 2.	3.6	7
62	Spectral analysis of the Cerean geological unit crater central peak material as an indicator of subsurface mineral composition. <i>Icarus</i> , 2019, 318, 75-98.	2.5	6
63	Mineralogy of the Urvaraâ€™Yalode region on Ceres. <i>Icarus</i> , 2019, 318, 241-250.	2.5	6
64	The surface composition of Ceresâ€™ Ezinu quadrangle analyzed by the Dawn mission. <i>Icarus</i> , 2019, 318, 124-146.	2.5	6
65	Highâ€™Temperature VISâ€™R Spectroscopy of NH_4 â€™Phyllosilicates. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006696.	3.6	6
66	Laboratory Investigations Coupled to VIR/Dawn Observations to Quantify the Large Concentrations of Organic Matter on Ceres. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 719.	2.0	6
67	VIS-NIR/SWIR Spectral Properties of H ₂ O Ice Depending on Particle Size and Surface Temperature. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1328.	2.0	6
68	Spectral investigation of quadrangle AC-H 3 of the dwarf planet Ceres â€™ The region of impact crater Dantu. <i>Icarus</i> , 2019, 318, 111-123.	2.5	5
69	The Measurement of Solar Diameter and Limb Darkening Function with the Eclipse Observations. <i>Solar Physics</i> , 2012, 278, 269-283.	2.5	4
70	VIS-IR Spectroscopy of Mixtures of Water Ice, Organic Matter, and Opaque Mineral in Support of Small Body Remote Sensing Observations. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1222.	2.0	4
71	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
72	Correction of the VIR-visible dataset from the Dawn mission at Vesta. <i>Review of Scientific Instruments</i> , 2020, 91, 123102.	1.3	3

#	ARTICLE	IF	CITATIONS
73	Properties of the dust in the coma of 67P/Churyumov-Gerasimenko observed with VIRTIS- M. Monthly Notices of the Royal Astronomical Society, 2016, , stw3197.	4.4	2
74	MINERALOGICAL MAPPING OF THE OCCATOR QUADRANGLE. , 2016, , .		2
75	The mineralogy of Ceresâ€™™ Nawish quadrangle. Icarus, 2019, 318, 195-204.	2.5	1
76	Mineralogy mapping of the Ac-H-5 Fejokoo quadrangle of Ceres. Icarus, 2019, 318, 147-169.	2.5	1
77	The surface of (4) Vesta in visible light as seen by Dawn/VIR. Astronomy and Astrophysics, 2021, 653, A118.	5.1	1
78	MINERALOGICAL ANALYSIS OF THE QUADRANGLES AC-11 SINTANA AND AC-12 TOHARU ON THE DWARF PLANET CERES. , 2016, , .		1
79	Thermal inertia of Occator's faculae on Ceres. Planetary and Space Science, 2021, 205, 105285.	1.7	0
80	Ceresâ€™™ Surface Composition. , 2022, , 105-120.		0