Alessandra Migliorini

List of Publications by Year
in descending order

84	2,373	159585 30	233421 45
papers	citations	h-index	g-index

96	96	96	1869
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Evidence for the formation of comet 67P/Churyumov-Gerasimenko through gravitational collapse of a bound clump of pebbles. Monthly Notices of the Royal Astronomical Society, 2017, 469, S755-S773.	4.4	146
2	Exposed water ice on the nucleus of comet 67P/Churyumovâ€“Gerasimenko. Nature, 2016, 529, 368-372.	27.8	104
3	Clusters of cyclones encircling Jupiterâ€™s poles. Nature, 2018, 555, 216-219.	27.8	90
4	Analysis of near-IR spectra of 1 Ceres and 4 Vesta, targets of the Dawn mission. Astronomy and Astrophysics, 2005, 436, 1113-1121.	5.1	89
5	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. Astronomy and Astrophysics, 2016, 588, A134.	5.1	88
6	Direct Simulation Monte Carlo modelling of the major species in the coma of comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S156-S169.	4.4	87
7	First detection of hydroxyl in the atmosphere of Venus. Astronomy and Astrophysics, 2008, 483, L29-L33.	5.1	86
8	Nearâ€IR oxygen nightglow observed by VIRTIS in the Venus upper atmosphere. Journal of Geophysical Research, 2009, 114, .	3.3	74
9	Evolution of CO₂, CH₄, and OCS abundances relative to H₂O in the coma of comet 67P around perihelion fromRosetta/VIRTIS-H observations. Monthly Notices of the Royal Astronomical Society, 2016, 462, S170-S183.	4.4	72
10	Water and carbon dioxide distribution in the 67P/Churyumov-Gerasimenko coma from VIRTIS-M infrared observations. Astronomy and Astrophysics, 2016, 589, A45.	5.1	62
11	Investigation into the disparate origin of CO2 and H2O outgassing for Comet 67/P. Icarus, 2016, 277, 78-97.	2.5	61
12	Seasonal exposure of carbon dioxide ice on the nucleus of comet 67P/Churyumov-Gerasimenko. Science, 2016, 354, 1563-1566.	12.6	61
13	Spectroscopic survey of M-type asteroidsâ˜†. Icarus, 2010, 210, 655-673.	2.5	60
14	Investigation of air temperature on the nightside of Venus derived from VIRTIS-H on board Venus-Express. Icarus, 2012, 217, 640-647.	2.5	59
15	Comet 67P outbursts and quiescent coma at 1.3 au from the Sun: dust properties from Rosetta/VIRTIS-H observations. Monthly Notices of the Royal Astronomical Society, 2017, 469, S443-S458.	4.4	56
16	The global surface composition of 67P/CG nucleus by Rosetta/VIRTIS. (I) Prelanding mission phase. Icarus, 2016, 274, 334-349.	2.5	54
17	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. Science, 2018, 361, 774-777.	12.6	53
18	Morphology and dynamics of Venus oxygen airglow from Venus Express/Visible and Infrared Thermal Imaging Spectrometer observations. Journal of Geophysical Research, 2008, 113, .	3.3	52

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19	Venus Atmospheric Thermal Structure and Radiative Balance. Space Science Reviews, 2018, 214, 1.	8.1	47
20	Visible and near infrared spectroscopic investigation of E-type asteroids, including 2867 Steins, a target of the Rosetta missionâ˜†. Icarus, 2008, 196, 119-134.	2.5	42
21	Thermal structure of Venusian nighttime mesosphere as observed by VIRTISâ€Venus Express. Journal of Geophysical Research, 2010, 115, .	3.3	41
22	Spectral and mineralogical characterization of inner main-belt V-type asteroids. Astronomy and Astrophysics, 2011, 533, A77.	5.1	38
23	The thermal structure of the Venus atmosphere: Intercomparison of Venus Express and ground based observations of vertical temperature and density profiles. Icarus, 2017, 294, 124-155.	2.5	34
24	The changing temperature of the nucleus of comet 67P induced by morphological and seasonal effects. Nature Astronomy, 2019, 3, 649-658.	10.1	34
25	Cyclostrophic winds from the Visible and Infrared Thermal Imaging Spectrometer temperature sounding: A preliminary analysis. Journal of Geophysical Research, 2008, 113, .	3.3	33
26	Retrieval of air temperature profiles in the Venusian mesosphere from VIRTISâ€M data: Description and validation of algorithms. Journal of Geophysical Research, 2008, 113, .	3.3	32
27	The Venus nighttime atmosphere as observed by the VIRTISâ€M instrument. Average fields from the complete infrared data set. Journal of Geophysical Research E: Planets, 2014, 119, 837-849.	3.6	32
28	The characteristics of the O2 Herzberg II and Chamberlain bands observed with VIRTIS/Venus Express. Icarus, 2013, 223, 609-614.	2.5	31
29	Mineralogical characterization of some V-type asteroids, in support of the NASAâ€,Dawnâ€,missionâ˜…. Monthly Notices of the Royal Astronomical Society, 2011, 412, 2318-2332.	4.4	30
30	Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. Geophysical Research Letters, 2017, 44, 5308-5316.	4.0	30
31	First Estimate of Wind Fields in the Jupiter Polar Regions From JIRAMâ€Juno Images. Journal of Geophysical Research E: Planets, 2018, 123, 1511-1524.	3.6	24
32	Twoâ€Year Observations of the Jupiter Polar Regions by JIRAM on Board Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006098.	3.6	24
33	Infrared observations of Io from Juno. Icarus, 2020, 341, 113607.	2.5	23
34	How pristine is the interior of the comet 67P/Churyumovâ€“Gerasimenko?. Monthly Notices of the Royal Astronomical Society, 2017, 469, S685-S694.	4.4	22
35	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.	4.0	20
36	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.	4.0	20

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37	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.	4.4	20
38	Are the E-type asteroids (2867) Steins, a target of the Rosetta mission, and NEA (3103) Eger remnants of an old asteroid family?. Astronomy and Astrophysics, 2007, 474, L29-L32.	5.1	19
39	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.	4.0	18
40	Dust Environment Model of the Interstellar Comet 2I/Borisov. Astrophysical Journal Letters, 2020, 893, L12.	8.3	18
41	Constraining the surface properties of Saturn's icy moons, using Cassini/CIRS emissivity spectra. Icarus, 2007, 187, 574-583.	2.5	17
42	Spectral characterization of V-type asteroids outside the Vesta family. Monthly Notices of the Royal Astronomical Society, 2017, 464, 1718-1726.	4.4	16
43	Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006508.	3.6	16
44	Modeling VIRTIS/VEX O₂(a1âˆ†g) nightglow profiles affected by the propagation of gravity waves in the Venus upper mesosphere. Journal of Geophysical Research E: Planets, 2014, 119, 2300-2316.	3.6	15
45	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.	4.0	15
46	Morphology of the Auroral Tail of Io, Europa, and Ganymede From JIRAM Lâ€Band Imager. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029450.	2.4	15
47	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.	3.6	14
48	Oxygen nightglow emissions of Venus: Vertical distribution and collisional quenching. Icarus, 2013, 223, 602-608.	2.5	13
49	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.	4.0	13
50	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.	1.7	12
51	Comparative analysis of airglow emissions in terrestrial planets, observed with VIRTIS-M instruments on board Rosetta and Venus Express. Icarus, 2013, 226, 1115-1127.	2.5	11
52	H3+ characteristics in the Jupiter atmosphere as observed at limb with Juno/JIRAM. Icarus, 2019, 329, 132-139.	2.5	11
53	Cometary Comae-Surface Links. Space Science Reviews, 2020, 216, 130.	8.1	11
54	Oscillations and Stability of the Jupiter Polar Cyclones. Geophysical Research Letters, 2021, 48, e2021GL094235.	4.0	11

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55	and seasonal variability. Monthly Notices of the Royal Astronomical Society, 0, , stw3177.	4.4	10
56	Spectroscopy of five V-type asteroids in the middle and outer main belt. Monthly Notices of the Royal Astronomical Society, 2018, 475, 353-358.	4.4	10
57	JUNO/JIRAM's view of Jupiter's H ₃ ⁺ emissions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180406.	3.4	10
58	Oxygen airglow emission on Venus and Mars as seen by VIRTIS/VEX and OMEGA/MEX imaging spectrometers. Planetary and Space Science, 2011, 59, 981-987.	1.7	9
59	Validation of the IPSL Venus GCM Thermal Structure with Venus Express Data. Atmosphere, 2019, 10, 584.	2.3	9
60	Phaethon variability during December 2017 closest approach to Earth. Planetary and Space Science, 2019, 165, 115-123.	1.7	9
61	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. Astronomy and Astrophysics, 2019, 630, A23.	5.1	9
62	Reflectance spectra of Titan tholin between 7000 and 10 cm⁻¹. Astronomy and Astrophysics, 2010, 516, A92.	5.1	8
63	Analysis of the dust jet imaged byRosettaVIRTIS-M in the coma of comet 67P/Churyumovâ€“Gerasimenko on 2015 April 12. Monthly Notices of the Royal Astronomical Society, 2016, 462, S370-S375.	4.4	8
64	The SSDC contribution to the improvement of knowledge by means of 3D data projections of minor bodies. Advances in Space Research, 2018, 62, 2306-2316.	2.6	8
65	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
66	Turbulence Power Spectra in Regions Surrounding Jupiter's South Polar Cyclones From Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006096.	3.6	8
67	Mapping Io's Surface Composition With Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006522.	3.6	8
68	Characterization of V-type asteroids orbiting in the middle and outer main belt. Monthly Notices of the Royal Astronomical Society, 2021, 504, 2019-2032.	4.4	8
69	Investigation of oxygen O2(a1Î” g) emission on the nightside of Venus: Nadir data of the VIRTIS-M experiment of the Venus Express mission. Cosmic Research, 2010, 48, 232-239.	0.6	7
70	Hydroxyl airglow on Venus in comparison with Earth. Planetary and Space Science, 2011, 59, 974-980.	1.7	7
71	Terrestrial <scp>OH</scp> nightglow measurements during the <scp>Rosetta</scp> flyby. Geophysical Research Letters, 2015, 42, 5670-5677.	4.0	7
72	Mapping of hydrocarbons and H 3 + emissions at Jupiter's north pole using Galileo/NIMS data. Geophysical Research Letters, 2016, 43, 11,558.	4.0	7

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73	Juno/JIRAM: Planning and commanding activities. Advances in Space Research, 2020, 65, 598-615.	2.6	5
74	Preliminary estimation of the detection possibilities of Ganymedeâ€™s water vapor environment with MAJIS. Planetary and Space Science, 2020, 191, 105004.	1.7	5
75	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.	4.4	5
76	VIRTIS on Rosetta: a unique technique to observe comet 67P/Churyumov-Gerasimenko â€“ first results and prospects. Proceedings of SPIE, 2015, , .	0.8	4
77	Global maps of Venus nightside mean infrared thermal emissions obtained by VIRTIS on Venus Express. Icarus, 2020, 343, 113683.	2.5	3
78	Cometary science with CUBES. Experimental Astronomy, 0, , 1.	3.7	3
79	Stability of the Jupiter Southern Polar Vortices Inspected Through Vorticity Using Juno/JIRAM Data. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	3
80	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
81	Iron rich basaltic eucrites, implication on spectral properties and parental bodies. Icarus, 2022, 371, 114653.	2.5	2
82	Comets beyond 4 au: How pristine are Oort nuclei?. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	2
83	A search of outer Trojans on ASTROVIRTEL images. Planetary and Space Science, 2005, 53, 643-651.	1.7	1
84	Temperature estimation from hydroxyl airglow emission in the Venus night side mesosphere. Icarus, 2018, 300, 386-391.	2.5	1