Nicolas Altobelli

List of Publications by Year
in descending order

42 papers	2,139 citations	279778 23 h-index	276858 41 g-index
42 all docs	42 docs citations	42 times ranked	1800 citing authors

#	Article	IF	Citations
1	Dust measurements in the coma of comet 67P/Churyumov-Gerasimenko inbound to the Sun. Science, 2015, 347, aaa3905.	12.6	310
2	The Cassini Cosmic Dust Analyzer. Space Science Reviews, 2004, 114, 465-518.	8.1	230
3	EVOLUTION OF THE DUST SIZE DISTRIBUTION OF COMET 67P/CHURYUMOVâ€"GERASIMENKO FROM 2.2 au TO PERIHELION. Astrophysical Journal, 2016, 821, 19.	4.5	158
4	DENSITY AND CHARGE OF PRISTINE FLUFFY PARTICLES FROM COMET 67P/CHURYUMOVâ€"GERASIMENKO. Astrophysical Journal Letters, 2015, 802, L12.	8.3	130
5	Flux and composition of interstellar dust at Saturn from Cassiniâ€™s Cosmic Dust Analyzer. Science, 2016, 352, 312-318.	12.6	97
6	GIADA: shining a light on the monitoring of the comet dust production from the nucleus of 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A13.	5.1	87
7	The Rosetta mission orbiter science overview: the comet phase. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160262.	3.4	74
8	Cassini between Venus and Earth: Detection of interstellar dust. Journal of Geophysical Research, 2003, 108, LIS 7-1-LIS 7-9.	3.3	68
9	A new look into the Helios dust experiment data: presence of interstellar dust inside the Earth's orbit. Astronomy and Astrophysics, 2006, 448, 243-252.	5.1	64
10	Dissolution on Titan and on Earth: Toward the age of Titan's karstic landscapes. Journal of Geophysical Research E: Planets, 2015, 120, 1044-1074.	3.6	63
11	Penetration of the heliosphere by the interstellar dust stream during solar maximum. Journal of Geophysical Research, 2003, 108, .	3.3	59
12	Interstellar Dust in the Solar System. Space Science Reviews, 2007, 130, 401-408.	8.1	59
13	Dust particle flux and size distribution in the coma of 67P/Churyumov-Gerasimenko measured in situ by the COSIMA instrument on board Rosetta. Astronomy and Astrophysics, 2016, 596, A87.	5.1	59
14	Cassini between Earth and asteroid belt: first in-situ charge measurements of interplanetary grains. Icarus, 2004, 171, 317-335.	2.5	53
15	Unexpected and significant findings in comet 67P/Churyumovâ€"Gerasimenko: an interdisciplinary view. Monthly Notices of the Royal Astronomical Society, 2016, 462, S2-S8.	4.4	53
16	Interstellar dust flux measurements by the Galileo dust instrument between the orbits of Venus and Mars. Journal of Geophysical Research, 2005, 110, .	3.3	47
17	The flow of interstellar dust into the solar system. Astronomy and Astrophysics, 2012, 538, A102.	5.1	46
18	Rosetta begins its Comet Tale. Science, 2015, 347, 387-387.	12.6	42

#	Article	IF	Citations
19	Cassini thermal observations of Saturn's main rings: Implications for particle rotation and vertical mixing. Planetary and Space Science, 2006, 54, 1167-1176.	1.7	37
20	Evolution of the physical properties of dust and cometary dust activity from 67P/Churyumovâ€“Gerasimenko measured in situ by Rosetta/COSIMA. Monthly Notices of the Royal Astronomical Society, 2017, 469, S459-S474.	4.4	36
21	The Spectral Nature of Titan's Major Geomorphological Units: Constraints on Surface Composition. Journal of Geophysical Research E: Planets, 2018, 123, 489-507.	3.6	33
22	Thermal observations of Saturn's main rings by Cassini CIRS: Phase, emission and solar elevation dependence. Planetary and Space Science, 2008, 56, 134-146.	1.7	28
23	Brightness of Saturn's rings with decreasing solar elevation. Planetary and Space Science, 2010, 58, 1758-1765.	1.7	25
24	Cassini/Cosmic Dust Analyzer in situ dust measurements between Jupiter and Saturn. Journal of Geophysical Research, 2007, 112, .	3.3	24
25	Infrared observations of Saturn's rings by Cassini CIRS : Phase angle and local time dependence. Planetary and Space Science, 2008, 56, 117-133.	1.7	24
26	Cassiniâ€“VIMS observations of Saturnâ€™s main rings: I. Spectral properties and temperature radial profiles variability with phase angle and elevation. Icarus, 2014, 241, 45-65.	2.5	24
27	Modelling DESTINY+ interplanetary and interstellar dust measurements en route to the active asteroid (3200) Phaethon. Planetary and Space Science, 2019, 172, 22-42.	1.7	24
28	Thermal phase curves observed in Saturn's main rings by Cassiniâ€CIRS: Detection of an opposition effect?. Geophysical Research Letters, 2009, 36, .	4.0	22
29	The filtering of interstellar dust in the solar system. Astronomy and Astrophysics, 2013, 552, A130.	5.1	22
30	Influence of wall impacts on the Ulysses dust detector on understanding the interstellar dust flux. Planetary and Space Science, 2004, 52, 1287-1295.	1.7	21
31	Interstellar Dust in the Solar System. Space Science Reviews, 2019, 215, 1.	8.1	20
32	Mechanical and electrostatic experiments with dust particles collected in the inner coma of comet 67P by COSIMA onboard Rosetta. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160255.	3.4	19
33	A multilayer model for thermal infrared emission of Saturnâ€™s rings II: Albedo, spins, and vertical mixing of ring particles inferred from Cassini CIRS. Icarus, 2010, 210, 330-345.	2.5	16
34	Interstellar dust in the solar system: model versus in situ spacecraft data. Astronomy and Astrophysics, 2019, 626, A37.	5.1	16
35	Space Weathering Induced Via Microparticle Impacts: 2. Dust Impact Simulation and Meteorite Target Analysis. Journal of Geophysical Research E: Planets, 2019, 124, 1084-1099.	3.6	15
36	In-Situ Monitoring of Interstellar Dust in the Inner Solar System. AIP Conference Proceedings, 2005, , .	0.4	10

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37	Magnetosphereâ€Ionosphereâ€Thermosphere Coupling at Jupiter Using a Threeâ€Dimensional Atmospheric General Circulation Model. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA026792.	2.4	9
38	Two numerical models designed to reproduce Saturn ring temperatures as measured by Cassini-CIRS. Icarus, 2014, 238, 205-220.	2.5	5
39	Thermal transport in Saturnâ€™s B ring inferred from Cassini CIRS. Icarus, 2015, 254, 157-177.	2.5	5
40	Thermal Properties of Rings and Ring Particles. , 0, , 399-433.		2
41	Space Weathering Induced Via Microparticle Impacts: 1. Modeling of Impact Velocities and Flux of Micrometeoroids From Cometary, Asteroidal, and Interstellar Origin in the Main Asteroid Belt and the Nearâ€Earth Environment. Journal of Geophysical Research E: Planets, 2019, 124, 1044-1083.	3.6	2
42	Organic matter in interstellar dust lost at the approach to the heliosphere. Astronomy and Astrophysics, 2020, 643, A50.	5.1	1