Ingrid Mann

List of Publications by Year
in descending order

132	4,638	94433 37	110387 64
papers	citations	h-index	g-index

160	160	160	3130
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Discovery of Jovian dust streams and interstellar grains by the Ulysses spacecraft. Nature, 1993, 362, 428-430.	27.8	388
2	The 1997 reference of diffuse night sky brightness. Astronomy and Astrophysics, 1998, 127, 1-99.	2.1	374
3	Growth and Form of Planetary Seedlings: Results from a Microgravity Aggregation Experiment. Physical Review Letters, 2000, 85, 2426-2429.	7.8	238
4	MIRO: Microwave Instrument for Rosetta Orbiter. Space Science Reviews, 2007, 128, 561-597.	8.1	173
5	Dust Detection by the Wave Instrument on STEREO: Nanoparticles Picked up by the Solar Wind?. Solar Physics, 2009, 256, 463-474.	2.5	129
6	Dust Near The Sun. Space Science Reviews, 2004, 110, 269-305.	8.1	122
7	The Electric Charging of Interstellar Dust in the Solar System and Consequences for Its Dynamics. Astrophysical Journal, 1998, 499, 454-462.	4.5	113
8	Optical properties of cometary dust. Astronomy and Astrophysics, 2003, 407, L5-L8.	5.1	95
9	Southâ€"North and Radial Traverses through the Interplanetary Dust Cloud. Icarus, 1997, 129, 270-288.	2.5	94
10	Interplanetary dust detection by radio antennas: Mass calibration and fluxes measured by STEREO/WAVES. Journal of Geophysical Research, 2012, 117, .	3.3	87
11	Understanding coronal heating and solar wind acceleration: Case for in situ near-Sun measurements. Reviews of Geophysics, 2007, 45, .	23.0	85
12	Dust Grains in the Comae and Tails of Sungrazing Comets: Modeling of Their Mineralogical and Morphological Properties. Icarus, 2002, 159, 529-541.	2.5	79
13	Interstellar Dust in the Solar System. Annual Review of Astronomy and Astrophysics, 2010, 48, 173-203.	24.3	78
14	FORMATION AND ACCELERATION OF NANO DUST IN THE INNER HELIOSPHERE. Astrophysical Journal, 2010, 714, 89-99.	4.5	76
15	Elemental Abundances and Mass Densities of Dust and Gas in the Local Interstellar Cloud. Astrophysical Journal, 2003, 582, 846-858.	4.5	75
16	Interstellar dust properties derived from mass density, mass distribution, and flux rates in the heliosphere. Journal of Geophysical Research, 2000, 105, 10317-10328.	3.3	65
17	Constraints from Galileo observations on the origin of jovian dust streams. Nature, 1996, 381, 395-398.	27.8	62
18	Dust in the planetary system: Dust interactions in space plasmas of the solar system. Physics Reports, 2014, 536, 1-39.	25.6	62

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19	The Science of Sungrazers, Sunskirters, and Other Near-Sun Comets. Space Science Reviews, 2018, 214, 1.	8.1	60
20	Collisional Vaporization of Dust and Production of Gas in the Î² Pictoris Dust Disk. Astrophysical Journal, 2007, 660, 1541-1555.	4.5	59
21	Composition, Structure, and Size Distribution of Dust in the Local Interstellar Cloud. Astrophysical Journal, 2003, 583, 314-321.	4.5	57
22	Brightness of the solar F-corona. Earth, Planets and Space, 1998, 50, 493-499.	2.5	56
23	Galileo observes electromagnetically coupled dust in the Jovian magnetosphere. Journal of Geophysical Research, 1998, 103, 20011-20022.	3.3	56
24	Radiation pressure forces on â€œtypicalâ€•interplanetary dust grains. Planetary and Space Science, 1996, 44, 493-499.	1.7	55
25	Nanoparticles in the inner solar system. Planetary and Space Science, 2007, 55, 1000-1009.	1.7	54
26	Ulysses dust measurements near Jupiter. Science, 1992, 257, 1550-1552.	12.6	52
27	Dynamics of Dust near the Sun. Icarus, 1998, 134, 311-327.	2.5	52
28	Dusty Plasma Effects in Near Earth Space and Interplanetary Medium. Space Science Reviews, 2011, 161, 1-47.	8.1	52
29	Dust in the solar system and in extra-solar planetary systems. Astronomy and Astrophysics Review, 2006, 13, 159-228.	25.5	51
30	Two years of Ulysses dust data. Planetary and Space Science, 1995, 43, 971-999.	1.7	49
31	Light-scattering properties of random-oriented aggregates: Do they represent the properties of an ensemble of aggregates?. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 100, 199-206.	2.3	47
32	Dust Destruction and Ion Formation in the Inner Solar System. Astrophysical Journal, 2005, 621, L73-L76.	4.5	46
33	Dust Cloud near the Sun. Icarus, 2000, 146, 568-582.	2.5	45
34	Three years of Galileo dust data. Planetary and Space Science, 1995, 43, 953-969.	1.7	44
35	Momentum transfer to fluffy dust aggregates from stellar winds. Astronomy and Astrophysics, 2006, 452, 701-707.	5.1	44
36	Three years of Galileo dust data: ii. 1993â€“1995. Planetary and Space Science, 1998, 47, 85-106.	1.7	38

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37	Continuum and spectroscopic observations of asteroid (21) Lutetia at millimeter and submillimeter wavelengths with the MIRO instrument on the Rosetta spacecraft. Planetary and Space Science, 2012, 66, 31-42.	1.7	38
38	A comprehensive model to describe light scattering properties of cometary dust. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 89, 291-301.	2.3	34
39	Radiation pressure cross section for fluffy aggregates. Journal of Quantitative Spectroscopy and Radiative Transfer, 1998, 60, 425-438.	2.3	33
40	Galileo and Ulysses dust measurements: Fz Venus to Jupiter. Geophysical Research Letters, 1992, 19, 1311-1314.	4.0	32
41	Dust Measurements During Galileo's Approach to Jupiter and Io Encounter. Science, 1996, 274, 399-401.	12.6	32
42	Dust measurements in the Jovian magnetosphere. Geophysical Research Letters, 1997, 24, 2171-2174.	4.0	32
43	Remote sensing of a comet at millimeter and submillimeter wavelengths from an orbiting spacecraft. Planetary and Space Science, 2007, 55, 1050-1057.	1.7	32
44	Three years of Ulysses dust data: 2005 to 2007. Planetary and Space Science, 2010, 58, 951-964.	1.7	32
45	Four years of Ulysses dust data: 1996â€“1999. Planetary and Space Science, 2001, 49, 1303-1324.	1.7	31
46	Five years of Ulysses dust data: 2000â€“2004. Planetary and Space Science, 2006, 54, 932-956.	1.7	31
47	Interplanetary medium â€“ A dusty plasma. Advances in Space Research, 2008, 41, 160-167.	2.6	30
48	Millimeter and submillimeter measurements of asteroid (2867) Steins during the Rosetta fly-by. Planetary and Space Science, 2010, 58, 1077-1087.	1.7	30
49	Penetration of interstellar dust grains into the heliosphere. Journal of Geophysical Research, 2003, 108, .	3.3	29
50	Momentum transfer to interplanetary dust from the solar wind. Astronomy and Astrophysics, 2004, 424, L13-L16.	5.1	28
51	Optical and Thermal Properties of Interplanetary Dust. Astronomy and Astrophysics Library, 2001, , 57-94.	0.1	27
52	Modeling the particle mass distribution within 1 AU of the Sun. Planetary and Space Science, 1998, 47, 225-232.	1.7	26
53	Dust in the interplanetary medium. Plasma Physics and Controlled Fusion, 2010, 52, 124012.	2.1	26
54	Dust observations with antenna measurements and its prospects for observations with Parker Solar Probe and Solar Orbiter. Annales Geophysicae, 2019, 37, 1121-1140.	1.6	26

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55	Light scattering by large clusters of dipoles as an analog for cometary dust aggregates. Journal of Quantitative Spectroscopy and Radiative Transfer, 2004, 89, 155-164.	2.3	25
56	On the Existence of Silicon Nanodust near the Sun. Astrophysical Journal, 2005, 624, L125-L128.	4.5	25
57	The Disk of Î² Pictoris in the Light of Polarimetric Data. Astrophysical Journal, 2000, 539, 424-434.	4.5	25
58	One year of Galileo dust data from the Jovian system: 1996. Planetary and Space Science, 2001, 49, 1285-1301.	1.7	24
59	Mid-infrared spectra of the shocked Murchison CM chondrite: Comparison with astronomical observations of dust in debris disks. Icarus, 2010, 207, 45-53.	2.5	24
60	The Contribution of Asteroid Dust to the Interplanetary Dust Cloud: The Impact of ULYSSES Results on the Understanding of Dust Production in the Asteroid Belt and of the Formation of the IRAS Dust Bands. Icarus, 1996, 120, 399-407.	2.5	23
61	Filtering of the interstellar dust flow near the heliopause: the importance of secondary electron emission for the grain charging. Earth, Planets and Space, 1999, 51, 1223-1232.	2.5	22
62	LUNAR DUST GRAIN CHARGING BY ELECTRON IMPACT: DEPENDENCE OF THE SURFACE POTENTIAL ON THE GRAIN SIZE. Astrophysical Journal, 2011, 738, 14.	4.5	22
63	Probable Detection of a Bright Infrared Coronal Emission Line of Siixnear 3.93 Microns. Astrophysical Journal, 1999, 521, 478-482.	4.5	21
64	Local interstellar cloud grains outside the heliopause. Astronomy and Astrophysics, 2003, 410, 165-173.	5.1	20
65	Extended calculation of polarization and intensity of fractal aggregates based on rigorous method for light scattering simulations with numerical orientation averaging. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 2613-2627.	2.3	18
66	Detection of meteoroid hypervelocity impacts on the Cluster spacecraft: First results. Journal of Geophysical Research: Space Physics, 2017, 122, 6485-6494.	2.4	18
67	Understanding Cassini RPWS Antenna Signals Triggered by Dust Impacts. Geophysical Research Letters, 2019, 46, 10941-10950.	4.0	18
68	Influence of dust shape and material composition on the solar F-corona. Planetary and Space Science, 1998, 46, 911-919.	1.7	17
69	Radiation pressure force acting on cometary aggregates. Advances in Space Research, 2007, 40, 266-271.	2.6	17
70	Complex Organic Materials in the HR 4796A Disk?. Astrophysical Journal, 2008, 686, L95-L98.	4.5	17
71	Oneâ€¥ear Analysis of Dust Impactâ€Like Events Onto the MMS Spacecraft. Journal of Geophysical Research: Space Physics, 2019, 124, 8179-8190.	2.4	17
72	Galileo dust data from the jovian system: 1997â€“1999. Planetary and Space Science, 2006, 54, 879-910.	1.7	16

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73	Comets as a possible source of nanodust in the Solar System cloud and in planetary debris discs. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160254.	3.4	16
74	Comparison of Dust Impact and Solitary Wave Signatures Detected by Multiple Electric Field Antennas Onboard the MMS Spacecraft. Journal of Geophysical Research: Space Physics, 2018, 123, 6119-6129.	2.4	16
75	TheJâ€•andKâ€Band Brightness of the Solar F Corona Observed during the Solar Eclipse on 1998 February 26. Astrophysical Journal, 2002, 578, 610-620.	4.5	15
76	Three years of Ulysses dust data: 1993â€“1995. Planetary and Space Science, 1999, 47, 363-383.	1.7	14
77	Triple Fâ€"a comet nucleus sample return mission. Experimental Astronomy, 2009, 23, 809-847.	3.7	14
78	NANODUST DETECTION BETWEEN 1 AND 5 AU USING<i>CASSINI</i>WAVE MEASUREMENTS. Astrophysical Journal, 2015, 806, 77.	4.5	14
79	First wind shear observation in PMSE with the tristatic EISCAT VHF radar. Journal of Geophysical Research: Space Physics, 2016, 121, 11,271.	2.4	14
80	Energy conversion in cometary atmospheres. Astronomy and Astrophysics, 2018, 616, A81.	5.1	14
81	Galileo dust data from the jovian system: 2000 to 2003. Planetary and Space Science, 2010, 58, 965-993.	1.7	13
82	Potential of Earth Orbiting Spacecraft Influenced by Meteoroid Hypervelocity Impacts. IEEE Transactions on Plasma Science, 2017, 45, 2048-2055.	1.3	13
83	Dust particles beyond the asteroid beltâ€"a study based on recent results of the Ulysses dust experiment. Planetary and Space Science, 1995, 43, 827-832.	1.7	12
84	Interstellar grains in the solar system: Requirements for an analysis. Space Science Reviews, 1996, 78, 259-264.	8.1	12
85	Zodiacal Cloud Complexes. Earth, Planets and Space, 1998, 50, 465-471.	2.5	12
86	Detection of Interstellar Dust with STEREO/WAVES at 1 AU. Solar Physics, 2012, 281, 501.	2.5	12
87	First dust measurements with the Solar Orbiter Radio and Plasma Wave instrument. Astronomy and Astrophysics, 2021, 656, A30.	5.1	12
88	Nanodust Dynamics in Interplanetary Space. Astrophysics and Space Science Library, 2012, , 47-75.	2.7	12
89	The physics and detection of nanodust in the solar system. Plasma Physics and Controlled Fusion, 2015, 57, 014015.	2.1	11
90	The forthcoming EISCAT_3D as an extra-terrestrial matter monitor. Planetary and Space Science, 2016, 123, 33-40.	1.7	11

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91	Dust observations from Parker Solar Probe: dust ejection from the inner Solar System. Astronomy and Astrophysics, 2021, 650, A29.	5.1	11
92	Radar studies of ionospheric dusty plasma phenomena. Contributions To Plasma Physics, 2019, 59, e201900005.	1.1	10
93	Acceleration of ions and nano dust at a comet in the solar wind. Planetary and Space Science, 2015, 119, 13-23.	1.7	9
94	Lowâ€frequency oscillatory flow signatures and highâ€speed flows in the Earth's magnetotail. Journal of Geophysical Research: Space Physics, 2017, 122, 7042-7056.	2.4	8
95	Nanodust in the Interstellar Medium in Comparison to the Solar System. Astrophysics and Space Science Library, 2012, , 5-30.	2.7	8
96	Dust measurements at the edge of the solar system. Advances in Space Research, 2004, 34, 179-183.	2.6	7
97	Vlasov simulations of parallel potential drops. Annales Geophysicae, 2013, 31, 1227-1240.	1.6	7
98	Estimates of the Size Distribution of Meteoric Smoke Particles From Rocketâ€Borne Impact Probes. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,353.	3.3	7
99	Dynamics of nanodust particles emitted from elongated initial orbits. Astronomy and Astrophysics, 2018, 617, A43.	5.1	7
100	Dust trajectory simulations around the Sun, Vega, and Fomalhaut. Astronomy and Astrophysics, 2019, 626, A107.	5.1	7
101	Dynamics of Interstellar Dust at the Heliopause. COSPAR Colloquia Series, 2001, 11, 365-368.	0.2	6
102	Causes and Consequences of the Existence of Nanodust in Interplanetary Space. Astrophysics and Space Science Library, 2012, , 195-219.	2.7	5
103	Effects of particle precipitation on the polar mesospheric summer echoes observed by EISCAT VHF 224ÂMHz radar. Advances in Space Research, 2022, 69, 3350-3361.	2.6	5
104	Dust In The Interplanetary Mediumâ€"Interactions With The Solar Wind. , 2010, , .		4
105	Vlasov simulations of trapping and loss of auroral electrons. Annales Geophysicae, 2015, 33, 279-293.	1.6	4
106	The influence of surface charge on the coalescence of ice and dust particles in the mesosphere and lower thermosphere. Atmospheric Chemistry and Physics, 2021, 21, 8735-8745.	4.9	4
107	Formation of ice particles through nucleation in the mesosphere. Atmospheric Chemistry and Physics, 2022, 22, 5639-5650.	4.9	4
108	Detection of fast nanoparticles in the solar wind. , 2010, , .		3

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109	Numerical and laboratory simulations of auroral acceleration. Physics of Plasmas, 2013, 20, 102901.	1.9	3
110	Towards a Framework for Noctilucent Cloud Analysis. Remote Sensing, 2019, 11, 2743.	4.0	3
111	Investigation of Polar Mesospheric Summer Echoes Using Linear Discriminant Analysis. Remote Sensing, 2021, 13, 522.	4.0	3
112	Formation of an additional density peak in the bottom side of the sodium layer associated with the passage of multiple mesospheric frontal systems. Atmospheric Chemistry and Physics, 2021, 21, 2343-2361.	4.9	3
113	Cometary plasma science. Experimental Astronomy, 2022, 54, 1129-1167.	3.7	3
114	The In-Situ Study of Solid Particles in the Solar System. Lecture Notes in Physics, 2010, , 233-257.	0.7	3
115	Self-consistent electrostatic simulations of reforming double layers in the downward current region of the aurora. Annales Geophysicae, 2015, 33, 1331-1342.	1.6	3
116	Segmentation of PMSE Data Using Random Forests. Remote Sensing, 2022, 14, 2976.	4.0	3
117	Dust dynamic pressure and magnetopause displacement: reasons for non-detection. Annales Geophysicae, 2013, 31, 39-44.	1.6	2
118	Dynamics of nanodust in the vicinity of a stellar corona: Effect of plasma corotation. Astronomy and Astrophysics, 2021, 652, A131.	5.1	2
119	Charged dust in the D-region incoherent scatter spectrum. Journal of Plasma Physics, 2021, 87, .	2.1	2
120	Dust sputtering within the inner heliosphere: a modelling study. Annales Geophysicae, 2020, 38, 919-930.	1.6	2
121	Comparison of Deep Learning Models for the Classification of Noctilucent Cloud Images. Remote Sensing, 2022, 14, 2306.	4.0	2
122	Can the downward current region of the aurora be simulated in the laboratory?. Plasma Physics and Controlled Fusion, 2016, 58, 054003.	2.1	1
123	A comparison of contact charging and impact ionization in low-velocity impacts: implications for dust detection in space. Annales Geophysicae, 2021, 39, 533-548.	1.6	1
124	Ion Cloud Expansion after Hyper-velocity Dust Impacts Detected by the Magnetospheric Multiscale Mission Electric Probes in the Dipole Configuration. Astrophysical Journal, 2021, 921, 127.	4.5	1
125	Modelling the influence of meteoric smoke particles on artificial heating in the D-region. Annales Geophysicae, 2021, 39, 1055-1068.	1.6	1
126	Nano-Particles in Cosmic Plasma Environments. AIP Conference Proceedings, 2008, , .	0.4	0

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127	4.3.2 Meteors. Landolt-Bâˆšâˆ,rnstein - Group VI Astronomy and Astrophysics, 2009, , 563-581.	0.1	0
128	COMMISSION 49: INTERPLANETARY PLASMA AND HELIOSPHERE. Proceedings of the International Astronomical Union, 2011, 7, 95-124.	0.0	0
129	DIVISION E COMMISSION 49: INTERPLANETARY PLASMA AND HELIOSPHERE. Proceedings of the International Astronomical Union, 2015, 11, 300-315.	0.0	0
130	Detection of EMPs generated by meteoroid impacts on the MMS spacecraft and problems with signal interpretation. , 2017, , .		0
131	Nano dust in space and astrophysics. Proceedings of the International Astronomical Union, 2018, 14, 379-381.	0.0	0
132	Formation and interaction of nano dust in planetary debris discs. Proceedings of the International Astronomical Union, 2018, 14, 417-418.	0.0	0