Ingrid Mann

List of Publications by Year
in descending order

132 papers	4,638 citations	94433 37 h-index	110387 64 g-index
160 all docs	160 docs citations	160 times ranked	3130 citing authors

#	Article	IF	Citations
1	Cometary plasma science. Experimental Astronomy, 2022, 54, 1129-1167.	3.7	3
2	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
3	Formation of ice particles through nucleation in the mesosphere. Atmospheric Chemistry and Physics, 2022, 22, 5639-5650.	4.9	4
4	Comparison of Deep Learning Models for the Classification of Noctilucent Cloud Images. Remote Sensing, 2022, 14, 2306.	4.0	2
5	Segmentation of PMSE Data Using Random Forests. Remote Sensing, 2022, 14, 2976.	4.0	3
6	Investigation of Polar Mesospheric Summer Echoes Using Linear Discriminant Analysis. Remote Sensing, 2021, 13, 522.	4.0	3
7	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
8	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
9	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
10	Dust observations from Parker Solar Probe: dust ejection from the inner Solar System. Astronomy and Astrophysics, 2021, 650, A29.	5.1	11
11	First dust measurements with the Solar Orbiter Radio and Plasma Wave instrument. Astronomy and Astrophysics, 2021, 656, A30.	5.1	12
12	Dynamics of nanodust in the vicinity of a stellar corona: Effect of plasma corotation. Astronomy and Astrophysics, 2021, 652, A131.	5.1	2
13	Charged dust in the D-region incoherent scatter spectrum. Journal of Plasma Physics, 2021, 87, .	2.1	2
14	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
15	Modelling the influence of meteoric smoke particles on artificial heating in the D-region. Annales Geophysicae, 2021, 39, 1055-1068.	1.6	1
16	Dust sputtering within the inner heliosphere: a modelling study. Annales Geophysicae, 2020, 38, 919-930.	1.6	2
17	Understanding Cassini RPWS Antenna Signals Triggered by Dust Impacts. Geophysical Research Letters, 2019, 46, 10941-10950.	4.0	18
18	Radar studies of ionospheric dusty plasma phenomena. Contributions To Plasma Physics, 2019, 59, e201900005.	1.1	10

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19	Towards a Framework for Noctilucent Cloud Analysis. Remote Sensing, 2019, 11, 2743.	4.0	3
20	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
21	Oneâ€Year Analysis of Dust Impactâ€Like Events Onto the MMS Spacecraft. Journal of Geophysical Research: Space Physics, 2019, 124, 8179-8190.	2.4	17
22	Dust trajectory simulations around the Sun, Vega, and Fomalhaut. Astronomy and Astrophysics, 2019, 626, A107.	5.1	7
23	The Science of Sungrazers, Sunskirters, and Other Near-Sun Comets. Space Science Reviews, 2018, 214, 1.	8.1	60
24	Nano dust in space and astrophysics. Proceedings of the International Astronomical Union, 2018, 14, 379-381.	0.0	0
25	Formation and interaction of nano dust in planetary debris discs. Proceedings of the International Astronomical Union, 2018, 14, 417-418.	0.0	0
26	Dynamics of nanodust particles emitted from elongated initial orbits. Astronomy and Astrophysics, 2018, 617, A43.	5.1	7
27	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
28	Energy conversion in cometary atmospheres. Astronomy and Astrophysics, 2018, 616, A81.	5.1	14
29	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
30	Potential of Earth Orbiting Spacecraft Influenced by Meteoroid Hypervelocity Impacts. IEEE Transactions on Plasma Science, 2017, 45, 2048-2055.	1.3	13
31	Detection of meteoroid hypervelocity impacts on the Cluster spacecraft: First results. Journal of Geophysical Research: Space Physics, 2017, 122, 6485-6494.	2.4	18
32	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
33	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
34	Detection of EMPs generated by meteoroid impacts on the MMS spacecraft and problems with signal interpretation. , 2017, , .		0
35	Can the downward current region of the aurora be simulated in the laboratory?. Plasma Physics and Controlled Fusion, 2016, 58, 054003.	2.1	1
36	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

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37	The forthcoming EISCAT_3D as an extra-terrestrial matter monitor. Planetary and Space Science, 2016, 123, 33-40.	1.7	11
38	DIVISION E COMMISSION 49: INTERPLANETARY PLASMA AND HELIOSPHERE. Proceedings of the International Astronomical Union, 2015, 11, 300-315.	0.0	0
39	Acceleration of ions and nano dust at a comet in the solar wind. Planetary and Space Science, 2015, 119, 13-23.	1.7	9
40	The physics and detection of nanodust in the solar system. Plasma Physics and Controlled Fusion, 2015, 57, 014015.	2.1	11
41	Vlasov simulations of trapping and loss of auroral electrons. Annales Geophysicae, 2015, 33, 279-293.	1.6	4
42	NANODUST DETECTION BETWEEN 1 AND 5 AU USING<i>CASSINI</i>WAVE MEASUREMENTS. Astrophysical Journal, 2015, 806, 77.	4.5	14
43	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
44	Dust in the planetary system: Dust interactions in space plasmas of the solar system. Physics Reports, 2014, 536, 1-39.	25.6	62
45	Dust dynamic pressure and magnetopause displacement: reasons for non-detection. Annales Geophysicae, 2013, 31, 39-44.	1.6	2
46	Numerical and laboratory simulations of auroral acceleration. Physics of Plasmas, 2013, 20, 102901.	1.9	3
47	Vlasov simulations of parallel potential drops. Annales Geophysicae, 2013, 31, 1227-1240.	1.6	7
48	Detection of Interstellar Dust with STEREO/WAVES at 1 AU. Solar Physics, 2012, 281, 501.	2.5	12
49	Interplanetary dust detection by radio antennas: Mass calibration and fluxes measured by STEREO/WAVES. Journal of Geophysical Research, 2012, 117, .	3.3	87
50	Causes and Consequences of the Existence of Nanodust in Interplanetary Space. Astrophysics and Space Science Library, 2012, , 195-219.	2.7	5
51	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
52	Nanodust in the Interstellar Medium in Comparison to the Solar System. Astrophysics and Space Science Library, 2012, , 5-30.	2.7	8
53	Nanodust Dynamics in Interplanetary Space. Astrophysics and Space Science Library, 2012, , 47-75.	2.7	12
54	COMMISSION 49: INTERPLANETARY PLASMA AND HELIOSPHERE. Proceedings of the International Astronomical Union, 2011, 7, 95-124.	0.0	0

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55	LUNAR DUST GRAIN CHARGING BY ELECTRON IMPACT: DEPENDENCE OF THE SURFACE POTENTIAL ON THE GRAIN SIZE. Astrophysical Journal, 2011, 738, 14.	4.5	22
56	Dusty Plasma Effects in Near Earth Space and Interplanetary Medium. Space Science Reviews, 2011, 161, 1-47.	8.1	52
57	Three years of Ulysses dust data: 2005 to 2007. Planetary and Space Science, 2010, 58, 951-964.	1.7	32
58	Galileo dust data from the jovian system: 2000 to 2003. Planetary and Space Science, 2010, 58, 965-993.	1.7	13
59	Millimeter and submillimeter measurements of asteroid (2867) Steins during the Rosetta fly-by. Planetary and Space Science, 2010, 58, 1077-1087.	1.7	30
60	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
61	FORMATION AND ACCELERATION OF NANO DUST IN THE INNER HELIOSPHERE. Astrophysical Journal, 2010, 714, 89-99.	4.5	76
62	Dust in the interplanetary medium. Plasma Physics and Controlled Fusion, 2010, 52, 124012.	2.1	26
63	Dust In The Interplanetary Mediumâ€"Interactions With The Solar Wind. , 2010, , .		4
64	Detection of fast nanoparticles in the solar wind. , 2010, , .		3
65	Interstellar Dust in the Solar System. Annual Review of Astronomy and Astrophysics, 2010, 48, 173-203.	24.3	78
66	The In-Situ Study of Solid Particles in the Solar System. Lecture Notes in Physics, 2010, , 233-257.	0.7	3
67	4.3.2 Meteors. Landolt-Bâˆšâˆ,rnstein - Group VI Astronomy and Astrophysics, 2009, , 563-581.	0.1	0
68	Triple Fâ€"a comet nucleus sample return mission. Experimental Astronomy, 2009, 23, 809-847.	3.7	14
69	Dust Detection by the Wave Instrument on STEREO: Nanoparticles Picked up by the Solar Wind?. Solar Physics, 2009, 256, 463-474.	2.5	129
70	Interplanetary medium â€" A dusty plasma. Advances in Space Research, 2008, 41, 160-167.	2.6	30
71	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
72	Nano-Particles in Cosmic Plasma Environments. AIP Conference Proceedings, 2008, , .	0.4	0

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73	Complex Organic Materials in the HR 4796A Disk?. Astrophysical Journal, 2008, 686, L95-L98.	4.5	17
74	Collisional Vaporization of Dust and Production of Gas in the Î² Pictoris Dust Disk. Astrophysical Journal, 2007, 660, 1541-1555.	4.5	59
75	Understanding coronal heating and solar wind acceleration: Case for in situ near-Sun measurements. Reviews of Geophysics, 2007, 45, .	23.0	85
76	Radiation pressure force acting on cometary aggregates. Advances in Space Research, 2007, 40, 266-271.	2.6	17
77	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
78	Nanoparticles in the inner solar system. Planetary and Space Science, 2007, 55, 1000-1009.	1.7	54
79	MIRO: Microwave Instrument for Rosetta Orbiter. Space Science Reviews, 2007, 128, 561-597.	8.1	173
80	Momentum transfer to fluffy dust aggregates from stellar winds. Astronomy and Astrophysics, 2006, 452, 701-707.	5.1	44
81	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
82	Galileo dust data from the jovian system: 1997â€“1999. Planetary and Space Science, 2006, 54, 879-910.	1.7	16
83	Five years of Ulysses dust data: 2000â€“2004. Planetary and Space Science, 2006, 54, 932-956.	1.7	31
84	Dust in the solar system and in extra-solar planetary systems. Astronomy and Astrophysics Review, 2006, 13, 159-228.	25.5	51
85	Dust Destruction and Ion Formation in the Inner Solar System. Astrophysical Journal, 2005, 621, L73-L76.	4.5	46
86	On the Existence of Silicon Nanodust near the Sun. Astrophysical Journal, 2005, 624, L125-L128.	4.5	25
87	Dust Near The Sun. Space Science Reviews, 2004, 110, 269-305.	8.1	122
88	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
89	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
90	Dust measurements at the edge of the solar system. Advances in Space Research, 2004, 34, 179-183.	2.6	7

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91	Momentum transfer to interplanetary dust from the solar wind. Astronomy and Astrophysics, 2004, 424, L13-L16.	5.1	28
92	Penetration of interstellar dust grains into the heliosphere. Journal of Geophysical Research, 2003, 108, .	3.3	29
93	Optical properties of cometary dust. Astronomy and Astrophysics, 2003, 407, L5-L8.	5.1	95
94	Elemental Abundances and Mass Densities of Dust and Gas in the Local Interstellar Cloud. Astrophysical Journal, 2003, 582, 846-858.	4.5	75
95	Composition, Structure, and Size Distribution of Dust in the Local Interstellar Cloud. Astrophysical Journal, 2003, 583, 314-321.	4.5	57
96	Local interstellar cloud grains outside the heliopause. Astronomy and Astrophysics, 2003, 410, 165-173.	5.1	20
97	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
98	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
99	Dynamics of Interstellar Dust at the Heliopause. COSPAR Colloquia Series, 2001, 11, 365-368.	0.2	6
100	One year of Galileo dust data from the Jovian system: 1996. Planetary and Space Science, 2001, 49, 1285-1301.	1.7	24
101	Four years of Ulysses dust data: 1996â€"1999. Planetary and Space Science, 2001, 49, 1303-1324.	1.7	31
102	Optical and Thermal Properties of Interplanetary Dust. Astronomy and Astrophysics Library, 2001, , 57-94.	0.1	27
103	Dust Cloud near the Sun. Icarus, 2000, 146, 568-582.	2.5	45
104	Growth and Form of Planetary Seedlings: Results from a Microgravity Aggregation Experiment. Physical Review Letters, 2000, 85, 2426-2429.	7.8	238
105	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
106	The Disk of Î² Pictoris in the Light of Polarimetric Data. Astrophysical Journal, 2000, 539, 424-434.	4.5	25
107	Three years of Ulysses dust data: 1993â€"1995. Planetary and Space Science, 1999, 47, 363-383.	1.7	14
108	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

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109	Probable Detection of a Bright Infrared Coronal Emission Line of Siixnear 3.93 Microns. Astrophysical Journal, 1999, 521, 478-482.	4.5	21
110	Three years of Galileo dust data: ii. 1993â€"1995. Planetary and Space Science, 1998, 47, 85-106.	1.7	38
111	Dynamics of Dust near the Sun. Icarus, 1998, 134, 311-327.	2.5	52
112	Radiation pressure cross section for fluffy aggregates. Journal of Quantitative Spectroscopy and Radiative Transfer, 1998, 60, 425-438.	2.3	33
113	Influence of dust shape and material composition on the solar F-corona. Planetary and Space Science, 1998, 46, 911-919.	1.7	17
114	Modeling the particle mass distribution within 1 AU of the Sun. Planetary and Space Science, 1998, 47, 225-232.	1.7	26
115	Zodiacal Cloud Complexes. Earth, Planets and Space, 1998, 50, 465-471.	2.5	12
116	Brightness of the solar F-corona. Earth, Planets and Space, 1998, 50, 493-499.	2.5	56
117	Galileo observes electromagnetically coupled dust in the Jovian magnetosphere. Journal of Geophysical Research, 1998, 103, 20011-20022.	3.3	56
118	The Electric Charging of Interstellar Dust in the Solar System and Consequences for Its Dynamics. Astrophysical Journal, 1998, 499, 454-462.	4.5	113
119	The 1997 reference of diffuse night sky brightness. Astronomy and Astrophysics, 1998, 127, 1-99.	2.1	374
120	Dust measurements in the Jovian magnetosphere. Geophysical Research Letters, 1997, 24, 2171-2174.	4.0	32
121	Southâ€"North and Radial Traverses through the Interplanetary Dust Cloud. Icarus, 1997, 129, 270-288.	2.5	94
122	Dust Measurements During Galileo's Approach to Jupiter and Io Encounter. Science, 1996, 274, 399-401.	12.6	32
123	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
124	Radiation pressure forces on â€œtypicalâ€• interplanetary dust grains. Planetary and Space Science, 1996, 44, 493-499.	1.7	55
125	Interstellar grains in the solar system: Requirements for an analysis. Space Science Reviews, 1996, 78, 259-264.	8.1	12
126	Constraints from Galileo observations on the origin of jovian dust streams. Nature, 1996, 381, 395-398.	27.8	62

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127	Two years of Ulysses dust data. Planetary and Space Science, 1995, 43, 971-999.	1.7	49
128	Three years of Galileo dust data. Planetary and Space Science, 1995, 43, 953-969.	1.7	44
129	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
130	Discovery of Jovian dust streams and interstellar grains by the Ulysses spacecraft. Nature, 1993, 362, 428-430.	27.8	388
131	Ulysses dust measurements near Jupiter. Science, 1992, 257, 1550-1552.	12.6	52
132	Galileo and Ulysses dust measurements: Fz Venus to Jupiter. Geophysical Research Letters, 1992, 19, 1311-1314.	4.0	32