

Mikako Matsuura

List of Publications by Year in descending order

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116
papers

6,016
citations

61857

43
h-index

71532

76
g-index

119
all docs

119
docs citations

119
times ranked

3586
citing authors

#	ARTICLE	IF	CITATIONS
1	Clouds, filaments, and protostars: The <i>Herschel</i> Hi-GAL Milky Way. <i>Astronomy and Astrophysics</i> , 2010, 518, L100.	2.1	573
2	Hi-GAL: The Herschel Infrared Galactic Plane Survey. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 314-325.	1.0	440
3	Herschel Detects a Massive Dust Reservoir in Supernova 1987A. <i>Science</i> , 2011, 333, 1258-1261.	6.0	294
4	The global gas and dust budget of the Large Magellanic Cloud: AGB stars and supernovae, and the impact on the ISM evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 918-934.	1.6	176
5	DUST PRODUCTION AND PARTICLE ACCELERATION IN SUPERNOVA 1987A REVEALED WITH ALMA. <i>Astrophysical Journal Letters</i> , 2014, 782, L2.	3.0	170
6	Detection of a Noble Gas Molecular Ion, $^{36}\text{ArH}^+$, in the Crab Nebula. <i>Science</i> , 2013, 342, 1343-1345.	6.0	164
7	A COOL DUST FACTORY IN THE CRAB NEBULA: A <i>Herschel</i> STUDY OF THE FILAMENTS. <i>Astrophysical Journal</i> , 2012, 760, 96.	1.6	162
8	A STUBBORNLY LARGE MASS OF COLD DUST IN THE EJECTA OF SUPERNOVA 1987A. <i>Astrophysical Journal</i> , 2015, 800, 50.	1.6	148
9	THE <i>HERSCHEL</i> INVENTORY OF THE AGENTS OF GALAXY EVOLUTION IN THE MAGELLANIC CLOUDS, A <i>HERSCHEL</i> OPEN TIME KEY PROGRAM. <i>Astronomical Journal</i> , 2013, 146, 62.	1.9	135
10	DUST AND GAS IN THE MAGELLANIC CLOUDS FROM THE <i>HERITAGE</i> <i>HERSCHEL</i> KEY PROJECT. I. DUST PROPERTIES AND INSIGHTS INTO THE ORIGIN OF THE SUBMILLIMETER EXCESS EMISSION. <i>Astrophysical Journal</i> , 2014, 797, 85.	1.6	125
11	The dust mass in Cassiopeia A from a spatially resolved <i>Herschel</i> analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 3309-3342.	1.6	117
12	Asymptotic giant branch superwind speed at low metallicity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 355, 1348-1360.	1.6	109
13	The wind speeds, dust content, and mass-loss rates of evolved AGB and RSG stars at varying metallicity. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 403-433.	1.6	109
14	<i>Herschel</i> Inventory of The Agents of Galaxy Evolution (<i>HERITAGE</i>): The Large Magellanic Cloud dust. <i>Astronomy and Astrophysics</i> , 2010, 518, L71.	2.1	103
15	The timing and location of dust formation in the remnant of SN 1987A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 2089-2101.	1.6	103
16	A Spitzer mid-infrared spectral survey of mass-losing carbon stars in the Large Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 370, 1961-1978.	1.6	94
17	Luminosities and mass-loss rates of carbon stars in the Magellanic Clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 376, 313-337.	1.6	94
18	The <i>SAGE-Spec</i> Spitzer Legacy programme: the life-cycle of dust and gas in the Large Magellanic Cloud - Point source classification I. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 411, 1597-1627.	1.6	93

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19	MESS (Mass-loss of Evolved StarS), a <i>Herschel</i> key program. <i>Astronomy and Astrophysics</i> , 2011, 526, A162.	2.1	93
20	Warm water vapour in the sooty outflow from a luminous carbon star. <i>Nature</i> , 2010, 467, 64-67.	13.7	87
21	Molecules and dust production in the Magellanic Clouds. <i>Astronomy and Astrophysics</i> , 2008, 487, 1055-1073.	2.1	85
22	Dust in historical Galactic Type Ia supernova remnants with <i>Herschel</i> <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 3557-3573.	1.6	82
23	Determining dust temperatures and masses in the <i>Herschel</i> era: The importance of observations longward of 200 μm . <i>Astronomy and Astrophysics</i> , 2010, 518, L89.	2.1	79
24	The SAGE-Spec Spitzer Legacy Program: The Life Cycle of Dust and Gas in the Large Magellanic Cloud. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 683-700.	1.0	78
25	CARBON-RICH DUST PAST THE ASYMPTOTIC GIANT BRANCH: ALIPHATICS, AROMATICS, AND FULLERENES IN THE MAGELLANIC CLOUDS. <i>Astrophysical Journal</i> , 2014, 791, 28.	1.6	75
26	UNUSUAL DUST EMISSION FROM PLANETARY NEBULAE IN THE MAGELLANIC CLOUDS. <i>Astrophysical Journal</i> , 2009, 699, 1541-1552.	1.6	73
27	High Angular Resolution ALMA Images of Dust and Molecules in the SN 1987A Ejecta. <i>Astrophysical Journal</i> , 2019, 886, 51.	1.6	71
28	Mid-Infrared Spectroscopy of Carbon Stars in the Small Magellanic Cloud. <i>Astrophysical Journal</i> , 2006, 645, 1118-1130.	1.6	68
29	Spitzer spectroscopy of carbon stars in the Small Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 376, 1270-1284.	1.6	67
30	Dust Formation in a Galaxy with Primitive Abundances. <i>Science</i> , 2009, 323, 353-355.	6.0	61
31	Spitzer observations of acetylene bands in carbon-rich asymptotic giant branch stars in the Large Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2006, 371, 415-420.	1.6	60
32	Spitzer Space Telescope spectra of post-AGB stars in the Large Magellanic Cloud – polycyclic aromatic hydrocarbons at low metallicities. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 1472-1493.	1.6	59
33	<i>HERSCHEL</i> KEY PROGRAM HERITAGE: A FAR-INFRARED SOURCE CATALOG FOR THE MAGELLANIC CLOUDS. <i>Astronomical Journal</i> , 2014, 148, 124.	1.9	56
34	Three-micron spectra of AGB stars and supergiants in nearby galaxies. <i>Astronomy and Astrophysics</i> , 2005, 434, 691-706.	2.1	56
35	The time variation in infrared water-vapour bands in Mira variables. <i>Astronomy and Astrophysics</i> , 2002, 383, 972-986.	2.1	52
36	Discovery of Extreme Carbon Stars in the Large Magellanic Cloud. <i>Astrophysical Journal</i> , 2008, 688, L9-L12.	1.6	51

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37	SPECTRAL AND MORPHOLOGICAL ANALYSIS OF THE REMNANT OF SUPERNOVA 1987A WITH ALMA AND ATCA. <i>Astrophysical Journal</i> , 2014, 796, 82.	1.6	49
38	DISCOVERY AND ANALYSIS OF 21 μm FEATURE SOURCES IN THE MAGELLANIC CLOUDS. <i>Astrophysical Journal</i> , 2011, 735, 127.	1.6	48
39	THREE-DIMENSIONAL DISTRIBUTION OF EJECTA IN SUPERNOVA 1987A AT 10,000 DAYS. <i>Astrophysical Journal</i> , 2016, 833, 147.	1.6	48
40	Detection of a Far-Infrared Bow Shock Nebula around R Hya: The First MIRIAD Results. <i>Astrophysical Journal</i> , 2006, 648, L39-L42.	1.6	47
41	AKARI/FIS Mapping of the ISM-Wind Bow Shock around α Orionis. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, S407-S413.	1.0	46
42	The global gas and dust budget of the Small Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 2527-2536.	1.6	45
43	THE CIRCUMSTELLAR ENVIRONMENT OF R CORONAE BOREALIS: WHITE DWARF MERGER OR FINAL-HELIUM-SHELL FLASH?. <i>Astrophysical Journal</i> , 2011, 743, 44.	1.6	44
44	Very Large Telescope three micron spectra of dust-enshrouded red giants in the Large Magellanic Cloud. <i>Astronomy and Astrophysics</i> , 2006, 447, 971-989.	2.1	42
45	Spitzer Space Telescope spectral observations of AGB stars in the Fornax dwarf spheroidal galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 382, 1889-1900.	1.6	41
46	Spitzer infrared spectrograph point source classification in the Small Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 3504-3536.	1.6	41
47	AKARI IRC Survey of the Large Magellanic Cloud: Outline of the Survey and Initial Results. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, S435-S451.	1.0	40
48	CARBON-RICH DUST PRODUCTION IN METAL-POOR GALAXIES IN THE LOCAL GROUP. <i>Astrophysical Journal</i> , 2012, 752, 140.	1.6	39
49	Very Deep inside the SN 1987A Core Ejecta: Molecular Structures Seen in 3D. <i>Astrophysical Journal Letters</i> , 2017, 842, L24.	3.0	39
50	Dust in the bright supernova remnant N49 in the LMC. <i>Astronomy and Astrophysics</i> , 2010, 518, L139.	2.1	38
51	CARBON MONOXIDE IN THE COLD DEBRIS OF SUPERNOVA 1987A. <i>Astrophysical Journal Letters</i> , 2013, 773, L34.	3.0	36
52	THE INFRARED SPECTRAL PROPERTIES OF MAGELLANIC CARBON STARS. <i>Astrophysical Journal</i> , 2016, 826, 44.	1.6	36
53	ALMA spectral survey of Supernova 1987A – molecular inventory, chemistry, dynamics and explosive nucleosynthesis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 3347-3362.	1.6	36
54	SOFIA mid-infrared observations of Supernova 1987A in 2016 – forward shocks and possible dust re-formation in the post-shocked region. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 1715-1723.	1.6	36

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55	Galactic mass-losing AGB stars probed with the IRTS. I.. <i>Astronomy and Astrophysics</i> , 2001, 376, 997-1010.	2.1	36
56	Dust in Supernovae and Supernova Remnants I: Formation Scenarios. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	34
57	The 30 Year Search for the Compact Object in SN 1987A. <i>Astrophysical Journal</i> , 2018, 864, 174.	1.6	34
58	Galaxy Evolution Studies with the <i>SPace IR Telescope for Cosmology and Astrophysics</i> (<i>SPICA</i>): The Power of IR Spectroscopy. <i>Publications of the Astronomical Society of Australia</i> , 2017, 34, .	1.3	32
59	A catalogue of Galactic supernova remnants in the far-infrared: revealing ejecta dust in pulsar wind nebulae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 70-118.	1.6	32
60	The dust content of the Crab Nebula. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 164-182.	1.6	31
61	Very Large Telescope Spectra of Carbon Stars in the Large Magellanic Cloud and Their Metallicity Dependence. <i>Astrophysical Journal</i> , 2002, 580, L133-L136.	1.6	31
62	Galactic distributions of carbon- and oxygen-rich AGB stars revealed by the AKARI mid-infrared all-sky survey. <i>Astronomy and Astrophysics</i> , 2011, 534, A79.	2.1	30
63	<i>AKARI</i> INFRARED CAMERA SURVEY OF THE LARGE MAGELLANIC CLOUD. I. POINT-SOURCE CATALOG. <i>Astronomical Journal</i> , 2012, 144, 179.	1.9	30
64	THE DUST PROPERTIES OF TWO HOT R CORONAE BOREALIS STARS AND A WOLF-RAYET CENTRAL STAR OF A PLANETARY NEBULA: IN SEARCH OF A POSSIBLE LINK. <i>Astronomical Journal</i> , 2011, 142, 54.	1.9	29
65	<i>Herschel</i> -SPIRE FTS spectroscopy of the carbon-rich objects AFGL2688, AFGL618, and NGC7027. <i>Astronomy and Astrophysics</i> , 2010, 518, L144.	2.1	27
66	Dust mass-loss rates from asymptotic giant branch stars in the Fornax and Sagittarius dwarf spheroidal galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, 383, 399-410.	1.6	25
67	AKARI's infrared view on nearby stars. <i>Astronomy and Astrophysics</i> , 2010, 514, A2.	2.1	25
68	The <i>Spitzer</i> spectroscopic survey of S-type stars. <i>Astronomy and Astrophysics</i> , 2012, 540, A72.	2.1	24
69	OH/IR stars and their superwinds as observed by the <i>Herschel</i> Space Observatory. <i>Astronomy and Astrophysics</i> , 2013, 556, A101.	2.1	23
70	Early dust formation and a massive progenitor for SN 2011ja?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 3241-3253.	1.6	23
71	Dust in Supernovae and Supernova Remnants II: Processing and Survival. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	23
72	Cold dust in three massive evolved stars in the LMC. <i>Astronomy and Astrophysics</i> , 2010, 518, L142.	2.1	22

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73	The ALMA detection of CO rotational line emission in AGB stars in the Large Magellanic Cloud. <i>Astronomy and Astrophysics</i> , 2016, 596, A50.	2.1	22
74	The mass-loss return from evolved stars to the Large Magellanic Cloud. <i>Astronomy and Astrophysics</i> , 2010, 524, A49.	2.1	20
75	From flux to dust mass: Does the grain-temperature distribution matter for estimates of cold dust masses in supernova remnants?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 4079-4090.	1.6	19
76	A decade of ejecta dust formation in the Type II In SN 2005ip. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5192-5206.	1.6	18
77	Revisiting the dust destruction efficiency of supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 500, 2543-2553.	1.6	18
78	Detection of Linear Polarization in the Radio Remnant of Supernova 1987A. <i>Astrophysical Journal Letters</i> , 2018, 861, L9.	3.0	17
79	The mass-loss rates of red supergiants at low metallicity: detection of rotational CO emission from two red supergiants in the Large Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 2995-3005.	1.6	15
80	<i>SPICA</i> and the Chemical Evolution of Galaxies: The Rise of Metals and Dust. <i>Publications of the Astronomical Society of Australia</i> , 2017, 34, .	1.3	15
81	Can a Bright and Energetic X-Ray Pulsar Be Hiding Amid the Debris of SN 1987A?. <i>Astrophysical Journal</i> , 2018, 857, 58.	1.6	15
82	A complete catalogue of dusty supernova remnants in the Galactic plane. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2706-2744.	1.6	15
83	ALMA reveals sunburn: CO dissociation around AGB stars in the globular cluster 47 Tucanae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 4325-4337.	1.6	14
84	Extended dust shell of the carbon star U Hydrae observed with AKARI. <i>Astronomy and Astrophysics</i> , 2011, 528, A29.	2.1	13
85	Probing the Baryon Cycle of Galaxies with <i>SPICA</i> Mid- and Far-Infrared Observations. <i>Publications of the Astronomical Society of Australia</i> , 2018, 35, .	1.3	11
86	The Double Dust Envelopes of R Coronae Borealis Stars. <i>Astronomical Journal</i> , 2018, 156, 148.	1.9	11
87	A Three-dimensional View of Molecular Hydrogen in SN 1987A. <i>Astrophysical Journal</i> , 2019, 873, 15.	1.6	9
88	Atacama Compact Array observations of the pulsar-wind nebula of SNR 0540-69.3. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 496, 1834-1844.	1.6	8
89	Oxygen-rich dust production in IC
. <i>Astronomy and Astrophysics</i> , 2012, 546, A94.	2.1	7
90	Dust and Molecular Formation in Supernovae. , 2017, , 2125-2158.		6

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91	On the properties of dust and gas in the environs of V838 Monocerotis. <i>Astronomy and Astrophysics</i> , 2016, 596, A96.	2.1	5
92	A Galactic dust devil: far-infrared observations of the Tornado supernova remnant candidate. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5665-5678.	1.6	5
93	The Nearby Evolved Stars Survey II: Constructing a volume-limited sample and first results from the James Clerk Maxwell Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 1091-1110.	1.6	5
94	Modelling the warm H ₂ infrared emission of the Helix nebula cometary knots. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, , no-no.	1.6	4
95	The nearby evolved stars survey â€œ I. JCMT/SCUBA-2 submillimetre detection of the detached shell of U Antliae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 3218-3231.	1.6	4
96	Global Dust Budgets of the Magellanic Clouds. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 267-270.	0.0	2
97	<i>Spitzer</i> and <i>Herschel</i> studies of dust in supernova remnants in the Small Magellanic Cloud. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 513, 1154-1174.	1.6	2
98	Herschel observations of planetary nebulae in the MESS key program. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 41-44.	0.0	1
99	The origin of dust in galaxies in the Herschel and ALMA era. <i>Astronomy and Geophysics</i> , 2012, 53, 6.19-6.23.	0.1	1
100	The Radio Remnant of Supernova 1987A â€™ A Broader View. <i>Proceedings of the International Astronomical Union</i> , 2017, 12, 274-283.	0.0	1
101	Dust in Supernovae and Supernova Remnants II: Processing and Survival. <i>Space Sciences Series of ISSI</i> , 2019, , 361-418.	0.0	1
102	The Real-Time Evolution of Sakurai's Star (V4334 Sgr) and other (V)LTP Objects. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 75.	0.0	0
103	Revealing infrared populations of nearby galaxies using the Spitzer Space Telescope. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 111-114.	0.0	0
104	Spitzer observations of molecules and dust in evolved stars in nearby galaxies. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 557-557.	0.0	0
105	Processing of polycyclic aromatic hydrocarbons in evolved planetary nebulae. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 462-463.	0.0	0
106	A Herschel study of Planetary Nebulae. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 514-515.	0.0	0
107	Observational studies of mass loss from AGB stars. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 80-82.	0.0	0
108	SpS5 - III. Matter ejection and feedback. <i>Proceedings of the International Astronomical Union</i> , 2012, 10, 429-438.	0.0	0

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109	ALMA molecular observations of supernova 1987A. Proceedings of the International Astronomical Union, 2015, 11, 239-240.	0.0	0
110	Detection of rotational CO emission from the red-supergiants in the Large Magellanic Cloud. Proceedings of the International Astronomical Union, 2015, 11, 459-459.	0.0	0
111	Measuring the dust content and formation in SN 1987A using detailed radiative transfer modelling. Proceedings of the International Astronomical Union, 2017, 12, 300-303.	0.0	0
112	High-Resolution Observations of Dust in SN 1987A. Proceedings of the International Astronomical Union, 2017, 12, 290-293.	0.0	0
113	ALMA observations of Molecules in Supernova 1987A. Proceedings of the International Astronomical Union, 2017, 12, 294-299.	0.0	0
114	ALMA spectrum of the extreme OH/IR star OH 26.5+0.6. Proceedings of the International Astronomical Union, 2018, 14, 436-437.	0.0	0
115	Dust and Molecular Formation in Supernovae. , 2016, , 1-34.		0
116	Dust in Supernovae and Supernova Remnants I: Formation Scenarios. Space Sciences Series of ISSI, 2019, , 313-360.	0.0	0