

Sharon E Meidt

List of Publications by Year in descending order

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61
papers

5,469
citations

76326

40
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123424

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61
times ranked

2927
citing authors

#	ARTICLE	IF	CITATIONS
1	MOLECULAR GAS AND STAR FORMATION IN NEARBY DISK GALAXIES. <i>Astronomical Journal</i> , 2013, 146, 19.	4.7	505
2	The <i>Spitzer</i> Survey of Stellar Structure in Galaxies. <i>Publications of the Astronomical Society of the Pacific</i> , 2010, 122, 1397-1414.	3.1	426
3	THE <i>SPITZER</i> SURVEY OF STELLAR STRUCTURE IN GALAXIES (S ⁴ G): MULTI-COMPONENT DECOMPOSITION STRATEGIES AND DATA RELEASE. <i>Astrophysical Journal, Supplement Series</i> , 2015, 219, 4.	7.7	202
4	RECONSTRUCTING THE STELLAR MASS DISTRIBUTIONS OF GALAXIES USING S ⁴ G IRAC 3.6 AND 4.5 $\hat{1}/4$ m IMAGES. II. THE CONVERSION FROM LIGHT TO MASS. <i>Astrophysical Journal</i> , 2014, 788, 144.	4.5	199
5	THE PdBI ARCSECOND WHIRLPOOL SURVEY (PAWS): ENVIRONMENTAL DEPENDENCE OF GIANT MOLECULAR CLOUD PROPERTIES IN M51. <i>Astrophysical Journal</i> , 2014, 784, 3.	4.5	198
6	THE PdBI ARCSECOND WHIRLPOOL SURVEY (PAWS). I. A CLOUD-SCALE/MULTI-WAVELENGTH VIEW OF THE INTERSTELLAR MEDIUM IN A GRAND-DESIGN SPIRAL GALAXY. <i>Astrophysical Journal</i> , 2013, 779, 42.	4.5	191
7	Cloud-scale Molecular Gas Properties in 15 Nearby Galaxies. <i>Astrophysical Journal</i> , 2018, 860, 172.	4.5	182
8	The lifecycle of molecular clouds in nearby star-forming disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2872-2909.	4.4	178
9	THE <i>SPITZER</i> SURVEY OF STELLAR STRUCTURE IN GALAXIES (S ⁴ G): PRECISE STELLAR MASS DISTRIBUTIONS FROM AUTOMATED DUST CORRECTION AT 3.6 $\hat{1}/4$ m. <i>Astrophysical Journal, Supplement Series</i> , 2015, 219, 5.	7.7	177
10	PHANGSâ€“ALMA: Arcsecond CO(2â€“1) Imaging of Nearby Star-forming Galaxies. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 43.	7.7	161
11	RECONSTRUCTING THE STELLAR MASS DISTRIBUTIONS OF GALAXIES USING S ⁴ G IRAC 3.6 AND 4.5 $\hat{1}/4$ m IMAGES. I. CORRECTING FOR CONTAMINATION BY POLYCYCLIC AROMATIC HYDROCARBONS, HOT DUST, AND INTERMEDIATE-AGE STARS. <i>Astrophysical Journal</i> , 2012, 744, 17.	4.5	149
12	A COMPARATIVE STUDY OF GIANT MOLECULAR CLOUDS IN M51, M33, AND THE LARGE MAGELLANIC CLOUD. <i>Astrophysical Journal</i> , 2013, 779, 46.	4.5	149
13	CONVERTING FROM 3.6 AND 4.5 $\hat{1}/4$ m FLUXES TO STELLAR MASS. <i>Astronomical Journal</i> , 2012, 143, 139.	4.7	147
14	GAS KINEMATICS ON GIANT MOLECULAR CLOUD SCALES IN M51 WITH PAWS: CLOUD STABILIZATION THROUGH DYNAMICAL PRESSURE. <i>Astrophysical Journal</i> , 2013, 779, 45.	4.5	142
15	THE PLATEAU DE BURE + 30 $\hat{1}/4$ m ARCSECOND WHIRLPOOL SURVEY REVEALS A THICK DISK OF DIFFUSE MOLECULAR GAS IN THE M51 GALAXY. <i>Astrophysical Journal</i> , 2013, 779, 43.	4.5	135
16	Cloud-scale ISM Structure and Star Formation in M51. <i>Astrophysical Journal</i> , 2017, 846, 71.	4.5	119
17	THE <i>SPITZER</i> SURVEY OF STELLAR STRUCTURE IN GALAXIES (S ⁴ G): STELLAR MASSES, SIZES, AND RADIAL PROFILES FOR 2352 NEARBY GALAXIES. <i>Astrophysical Journal, Supplement Series</i> , 2015, 219, 3.	7.7	111
18	THE IMPACT OF BARS ON DISK BREAKS AS PROBED BY S ⁴ G IMAGING. <i>Astrophysical Journal</i> , 2013, 771, 59.	4.5	101

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19	The PHANGS-MUSE survey. <i>Astronomy and Astrophysics</i> , 2022, 659, A191.	5.1	96
20	A PORTRAIT OF COLD GAS IN GALAXIES AT 60 pc RESOLUTION AND A SIMPLE METHOD TO TEST HYPOTHESES THAT LINK SMALL-SCALE ISM STRUCTURE TO GALAXY-SCALE PROCESSES. <i>Astrophysical Journal</i> , 2016, 831, 16.	4.5	92
21	Dynamical Equilibrium in the Molecular ISM in 28 Nearby Star-forming Galaxies. <i>Astrophysical Journal</i> , 2020, 892, 148.	4.5	88
22	Molecular Gas Properties on Cloud Scales across the Local Star-forming Galaxy Population. <i>Astrophysical Journal Letters</i> , 2020, 901, L8.	8.3	85
23	PHANGS' ALMA Data Processing and Pipeline. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 19.	7.7	79
24	SHORT GMC LIFETIMES: AN OBSERVATIONAL ESTIMATE WITH THE PdBI ARCSECOND WHIRLPOOL SURVEY (PAWS). <i>Astrophysical Journal</i> , 2015, 806, 72.	4.5	77
25	PHANGS CO Kinematics: Disk Orientations and Rotation Curves at 150 pc Resolution. <i>Astrophysical Journal</i> , 2020, 897, 122.	4.5	77
26	Dense Gas, Dynamical Equilibrium Pressure, and Star Formation in Nearby Star-forming Galaxies. <i>Astrophysical Journal</i> , 2018, 858, 90.	4.5	75
27	Giant molecular cloud catalogues for PHANGS-ALMA: methods and initial results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1218-1245.	4.4	75
28	GRAND DESIGN AND FLOCCULENT SPIRALS IN THE SPITZER SURVEY OF STELLAR STRUCTURE IN GALAXIES (S_{4G}). <i>Astrophysical Journal</i> , 2011, 737, 32.	4.5	74
29	UNCOVERING THE ORIGINS OF SPIRAL STRUCTURE BY MEASURING RADIAL VARIATION IN PATTERN SPEEDS. <i>Astrophysical Journal</i> , 2009, 702, 277-290.	4.5	73
30	THE PdBI ARCSECOND WHIRLPOOL SURVEY (PAWS): MULTI-PHASE COLD GAS KINEMATIC OF M51. <i>Astrophysical Journal</i> , 2014, 784, 4.	4.5	70
31	PROBABILITY DISTRIBUTION FUNCTIONS OF $^{12}\text{CO}(J=1 \rightarrow 0)$ BRIGHTNESS AND INTEGRATED INTENSITY IN M51: THE PAWS VIEW. <i>Astrophysical Journal</i> , 2013, 779, 44.	4.5	67
32	A Model for the Onset of Self-gravitation and Star Formation in Molecular Gas Governed by Galactic Forces. I. Cloud-scale Gas Motions. <i>Astrophysical Journal</i> , 2018, 854, 100.	4.5	67
33	Pre-supernova feedback mechanisms drive the destruction of molecular clouds in nearby star-forming disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 272-288.	4.4	65
34	The Chemical Evolution Carousel of Spiral Galaxies: Azimuthal Variations of Oxygen Abundance in NGC1365. <i>Astrophysical Journal</i> , 2017, 846, 39.	4.5	60
35	The PHANGS-HST Survey: Physics at High Angular Resolution in Nearby Galaxies with the Hubble Space Telescope. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 10.	7.7	58
36	Radial Dependence of the Pattern Speed of M51. <i>Astrophysical Journal</i> , 2008, 688, 224-236.	4.5	57

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37	The Gas Star Formation Cycle in Nearby Star-forming Galaxies. I. Assessment of Multi-scale Variations. <i>Astrophysical Journal</i> , 2019, 887, 49.	4.5	57
38	The PdBI Arcsecond Whirlpool Survey (PAWS): The Role of Spiral Arms in Cloud and Star Formation. <i>Astrophysical Journal</i> , 2017, 836, 62.	4.5	47
39	Low-J CO Line Ratios from Single-dish CO Mapping Surveys and PHANGS-ALMA. <i>Astrophysical Journal</i> , 2022, 927, 149.	4.5	46
40	Measuring the mixing scale of the ISM within nearby spiral galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 193-209.	4.4	44
41	THE AGE, MASS, AND SIZE DISTRIBUTIONS OF STAR CLUSTERS IN M51. <i>Astrophysical Journal</i> , 2016, 824, 71.	4.5	38
42	Ubiquitous velocity fluctuations throughout the molecular interstellar medium. <i>Nature Astronomy</i> , 2020, 4, 1064-1071.	10.1	38
43	BEING WISE. I. VALIDATING STELLAR POPULATION MODELS AND M/L RATIOS AT 3.4 and 4.6 μ m. <i>Astrophysical Journal</i> , 2014, 797, 55.	4.5	36
44	Tests of the Radial Tremaine Weinberg Method. <i>Astrophysical Journal</i> , 2008, 676, 899-919.	4.5	33
45	Azimuthal variations of gas-phase oxygen abundance in NGC 2997. <i>Astronomy and Astrophysics</i> , 2018, 618, A64.	5.1	32
46	The headlight cloud in NGC 628: An extreme giant molecular cloud in a typical galaxy disk. <i>Astronomy and Astrophysics</i> , 2020, 634, A121.	5.1	32
47	Molecular Cloud Populations in the Context of Their Host Galaxy Environments: A Multiwavelength Perspective. <i>Astronomical Journal</i> , 2022, 164, 43.	4.7	31
48	Do Spectroscopic Dense Gas Fractions Track Molecular Cloud Surface Densities?. <i>Astrophysical Journal Letters</i> , 2018, 868, L38.	8.3	27
49	A Model for the Onset of Self-gravitation and Star Formation in Molecular Gas Governed by Galactic Forces. II. The Bottleneck to Collapse Set by Cloud Environment Decoupling. <i>Astrophysical Journal</i> , 2020, 892, 73.	4.5	27
50	Applying the Tremaine Weinberg Method to Nearby Galaxies: Stellar-mass-based Pattern Speeds and Comparisons with ISM Kinematics. <i>Astronomical Journal</i> , 2021, 161, 185.	4.7	23
51	The 2D metallicity distribution and mixing scales of nearby galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 1303-1322.	4.4	22
52	BEING WISE II: REDUCING THE INFLUENCE OF STAR FORMATION HISTORY ON THE MASS-TO-LIGHT RATIO OF QUIESCENT GALAXIES. <i>Astrophysical Journal</i> , 2016, 832, 198.	4.5	19
53	Frequency and nature of central molecular outflows in nearby star-forming disk galaxies. <i>Astronomy and Astrophysics</i> , 2021, 653, A172.	5.1	19
54	The Gas Star Formation Cycle in Nearby Star-forming Galaxies. II. Resolved Distributions of CO and H α Emission for 49 PHANGS Galaxies. <i>Astrophysical Journal</i> , 2022, 927, 9.	4.5	19

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55	HOW GALACTIC ENVIRONMENT REGULATES STAR FORMATION. <i>Astrophysical Journal</i> , 2016, 818, 69.	4.5	18
56	Mapping Electron Temperature Variations across a Spiral Arm in NGC 1672. <i>Astrophysical Journal Letters</i> , 2019, 885, L31.	8.3	17
57	Clues to the Formation of Spiral Structure in M51 from the Ages and Locations of Star Clusters. <i>Astrophysical Journal</i> , 2017, 845, 78.	4.5	16
58	The Organization of Cloud-scale Gas Density Structure: High-resolution CO versus 3.6 $\hat{1}$ / ₄ m Brightness Contrasts in Nearby Galaxies. <i>Astrophysical Journal</i> , 2021, 913, 113.	4.5	10
59	When Gas Dynamics Decouples from Galactic Rotation: Characterizing ISM Circulation in Disk Galaxies. <i>Astrophysical Journal</i> , 2020, 892, 94.	4.5	7
60	Giant Molecular Cloud Populations in Nearby Galaxies. <i>Proceedings of the International Astronomical Union</i> , 2015, 11, 30-37.	0.0	2
61	LEGA-C: Analysis of Dynamical Masses from Ionized Gas and Stellar Kinematics at $z \hat{1}$ / ₄ 0.8. <i>Astrophysical Journal</i> , 2022, 928, 126.	4.5	2