# Karin M Sandstrom

List of Publications by Year
in descending order



| 100 | 6,988 | 57758 | 58581 |
|---|---|---|---|
| papers | citations | 44 h-index | 82 g-index |

| 102 | 102 | 102 | 4357 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | MOLECULAR GAS AND STAR FORMATION IN NEARBY DISK GALAXIES. Astronomical Journal, 2013, 146, 19. | 4.7 | 505 |
| 2 | THE CO-TO-H<sub>2</sub>CONVERSION FACTOR FROM INFRARED DUST EMISSION ACROSS THE LOCAL GROUP. Astrophysical Journal, 2011, 737, 12. | 4.5 | 461 |
| 3 | A MOLECULAR STAR FORMATION LAW IN THE ATOMIC-GAS-DOMINATED REGIME IN NEARBY GALAXIES. Astronomical Journal, 2011, 142, 37. | 4.7 | 436 |
| 4 | ANDROMEDA'S DUST. Astrophysical Journal, 2014, 780, 172. | 4.5 | 258 |
| 5 | LOW CO LUMINOSITIES IN DWARF GALAXIES. Astronomical Journal, 2012, 143, 138. | 4.7 | 190 |
| 6 | THE SCALE DEPENDENCE OF THE MOLECULAR GAS DEPLETION TIME IN M33. Astrophysical Journal, 2010, 722, 1699-1706. | 4.5 | 186 |
| 7 | THE STATE OF THE GAS AND THE RELATION BETWEEN GAS AND STAR FORMATION AT LOW METALLICITY: THE SMALL MAGELLANIC CLOUD. Astrophysical Journal, 2011, 741, 12. | 4.5 | 178 |
| 8 | TheSpitzerSurvey of the Small Magellanic Cloud: S3MC Imaging and Photometry in the Midâ€•and Farâ€Infrared Wave Bands. Astrophysical Journal, 2007, 655, 212-232. | 4.5 | 176 |
| 9 | PHANGSâ€“ALMA: Arcsecond CO(2â€“1) Imaging of Nearby Star-forming Galaxies. Astrophysical Journal, Supplement Series, 2021, 257, 43. | 7.7 | 161 |
| 10 | ALMA REVEALS THE MOLECULAR MEDIUM FUELING THE NEAREST NUCLEAR STARBURST. Astrophysical Journal, 2015, 801, 25. | 4.5 | 157 |
| 11 | ESTIMATING THE STAR FORMATION RATE AT 1 kpc SCALES IN NEARBY GALAXIES. Astronomical Journal, 2012, 144, 3. | 4.7 | 155 |
| 12 | A zÂ=Â0 Multiwavelength Galaxy Synthesis. I. A WISE and GALEX Atlas of Local Galaxies. Astrophysical Journal, Supplement Series, 2019, 244, 24. | 7.7 | 150 |
| 13 | THE EMISSION BY DUST AND STARS OF NEARBY GALAXIES IN THEHERSCHELKINGFISH SURVEY. Astrophysical Journal, 2011, 738, 89. | 4.5 | 145 |
| 14 | VARIATIONS IN THE STAR FORMATION EFFICIENCY OF THE DENSE MOLECULAR GAS ACROSS THE DISKS OF STAR-FORMING GALAXIES. Astronomical Journal, 2015, 150, 115. | 4.7 | 145 |
| 15 | THE MULTI-PHASE COLD FOUNTAIN IN M82 REVEALED BY A WIDE, SENSITIVE MAP OF THE MOLECULAR INTERSTELLAR MEDIUM. Astrophysical Journal, 2015, 814, 83. | 4.5 | 136 |
| 16 | The EDGE-CALIFA Survey: Interferometric Observations of 126 Galaxies with CARMA. Astrophysical Journal, 2017, 846, 159. | 4.5 | 136 |
| 17 | A Parallactic Distance of documentclass{aastex} usepackage{amsbsy} usepackage{amsfonts} usepackage{amssymb} usepackage{bm} usepackage{mathrsfs} usepackage{pifont} usepackage{stmaryrd} usepackage{textcomp} usepackage{portland,xspace} usepackage{amsmath,amsxtra} usepackage[OT2,OT1]{fontenc} ewcommandcyr{ enewcommandmdefault{wncyr} enewcommandsfdefault{wncyss} enewcommandencodingdefault{OT2} ormalfont selectfont} | 4.5 | 133 |
| 18 | DUST AND GAS IN THE MAGELLANIC CLOUDS FROM THE HERITAGEHERSCHELKEY PROJECT. I. DUST PROPERTIES AND INSIGHTS INTO THE ORIGIN OF THE SUBMILLIMETER EXCESS EMISSION. Astrophysical Journal, 2014, 797, 85. | 4.5 | 125 |

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| 19 | The heating of dust by old stellar populations in the bulge of M31. Monthly Notices of the Royal Astronomical Society, 2012, 426, 892-902. | 4.4 | 103 |
| 20 | Mapping Metallicity Variations across Nearby Galaxy Disks. Astrophysical Journal, 2019, 887, 80. | 4.5 | 103 |
| 21 | The Radio Spectral Energy Distribution and Star-formation Rate Calibration in Galaxies. Astrophysical Journal, 2017, 836, 185. | 4.5 | 102 |
| 22 | THESPITZERSURVEY OF THE SMALL MAGELLANIC CLOUD (S<sup>3</sup>MC): INSIGHTS INTO THE LIFE CYCLE OF POLYCYCLIC AROMATIC HYDROCARBONS. Astrophysical Journal, 2010, 715, 701-723. | 4.5 | 99 |
| 23 | THE EMPIRE SURVEY: SYSTEMATIC VARIATIONS IN THE DENSE GAS FRACTION AND STAR FORMATION EFFICIENCY FROM FULL-DISK MAPPING OF M51. Astrophysical Journal Letters, 2016, 822, L26. | 8.3 | 98 |
| 24 | Star Formation Efficiency per Free-fall Time in nearby Galaxies. Astrophysical Journal Letters, 2018, 861, L18. | 8.3 | 97 |
| 25 | The PHANGS-MUSE survey. Astronomy and Astrophysics, 2022, 659, A191. | 5.1 | 96 |
| 26 | THE STRUCTURE OF A LOW-METALLICITY GIANT MOLECULAR CLOUD COMPLEX. Astrophysical Journal, 2009, 702, 352-367. | 4.5 | 92 |
| 27 | 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. Astrophysical Journal, 2016, 831, 16. | 4.5 | 92 |
| 28 | Dynamical Equilibrium in the Molecular ISM in 28 Nearby Star-forming Galaxies. Astrophysical Journal, 2020, 892, 148. | 4.5 | 88 |
| 29 | A HIGH-DISPERSION MOLECULAR GAS COMPONENT IN NEARBY GALAXIES. Astronomical Journal, 2013, 146, 150. | 4.7 | 86 |
| 30 | Molecular Gas Properties on Cloud Scales across the Local Star-forming Galaxy Population. Astrophysical Journal Letters, 2020, 901, L8. | 8.3 | 85 |
| 31 | PANCHROMATIC HUBBLE ANDROMEDA TREASURY. XVI. STAR CLUSTER FORMATION EFFICIENCY AND THE CLUSTERED FRACTION OF YOUNG STARS. Astrophysical Journal, 2016, 827, 33. | 4.5 | 84 |
| 32 | THE SPATIALLY RESOLVED  COOLING LINE DEFICIT IN GALAXIES. Astrophysical Journal, 2017, 834, 5. | 4.5 | 79 |
| 33 | PHANGSâ€“ALMA Data Processing and Pipeline. Astrophysical Journal, Supplement Series, 2021, 255, 19. | 7.7 | 79 |
| 34 | The rarity of dust in metal-poor galaxies. Nature, 2014, 505, 186-189. | 27.8 | 75 |
| 35 | Panchromatic Hubble Andromeda Treasury. XVIII. The High-mass Truncation of the Star Cluster Mass Function. Astrophysical Journal, 2017, 839, 78. | 4.5 | 75 |
| 36 | THESPITZERSPECTROSCOPIC SURVEY OF THE SMALL MAGELLANIC CLOUD (S<sup>4</sup>MC): PROBING THE PHYSICAL STATE OF POLYCYCLIC AROMATIC HYDROCARBONS IN A LOW-METALLICITY ENVIRONMENT. Astrophysical Journal, 2012, 744, 20. | 4.5 | 73 |

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| 37 | The Origins of [C ii] Emission in Local Star-forming Galaxies. Astrophysical Journal, 2017, 845, 96. | 4.5 | 73 |
| 38 | THE PANCHROMATIC HUBBLE ANDROMEDA TREASURY. VIII. A WIDE-AREA, HIGH-RESOLUTION MAP OF DUST EXTINCTION IN M31. Astrophysical Journal, 2015, 814, 3. | 4.5 | 72 |
| 39 | On the duration of the embedded phase of star formation. Monthly Notices of the Royal Astronomical Society, 2021, 504, 487-509. | 4.4 | 61 |
| 40 | THE IONIZED GAS IN NEARBY GALAXIES AS TRACED BY THE  122 AND 205 Î¼m TRANSITIONS. Astrophysical Journal, 2016, 826, 175. | 4.5 | 58 |
| 41 | Modeling Dust and Starlight in Galaxies Observed by Spitzer and Herschel: The KINGFISH Sample. Astrophysical Journal, 2020, 889, 150. | 4.5 | 54 |
| 42 | The lived body â€" experiences from adults with cerebral palsy. Clinical Rehabilitation, 2007, 21, 432-441. | 2.2 | 53 |
| 43 | Updated 34-band Photometry for the SINGS/KINGFISH Samples of Nearby Galaxies. Astrophysical Journal, 2017, 837, 90. | 4.5 | 49 |
| 44 | Low-J CO Line Ratios from Single-dish CO Mapping Surveys and PHANGS-ALMA. Astrophysical Journal, 2022, 927, 149. | 4.5 | 46 |
| 45 | Measuring the mixing scale of the ISM within nearby spiral galaxies. Monthly Notices of the Royal Astronomical Society, 2020, 499, 193-209. | 4.4 | 44 |
| 46 | CLUMPING AND THE INTERPRETATION OF kpc-SCALE MAPS OF THE INTERSTELLAR MEDIUM: SMOOTH H I AND CLUMPY, VARIABLE H <sub>2</sub> SURFACE DENSITY. Astrophysical Journal Letters, 2013, 769, L12. | 8.3 | 43 |
| 47 | The Origins Space Telescope. Nature Astronomy, 2018, 2, 596-599. | 10.1 | 41 |
| 48 | QUANTIFYING NON-STAR-FORMATION-ASSOCIATED 8 Î¼m DUST EMISSION IN NGC 628. Astrophysical Journal, 2013, 762, 79. | 4.5 | 40 |
| 49 | MEASURING DUST PRODUCTION IN THE SMALL MAGELLANIC CLOUD CORE-COLLAPSE SUPERNOVA REMNANT 1E 0102.2â€"7219. Astrophysical Journal, 2009, 696, 2138-2154. | 4.5 | 39 |
| 50 | The Spatially Resolved Dust-to-metals Ratio in M101. Astrophysical Journal, 2018, 865, 117. | 4.5 | 39 |
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| 52 | THE PANCHROMATIC HUBBLE ANDROMEDA TREASURY. XV. THE BEAST: BAYESIAN EXTINCTION AND STELLAR TOOL*. Astrophysical Journal, 2016, 826, 104. | 4.5 | 36 |
| 53 | H i Kinematics along the Minor Axis of M82. Astrophysical Journal, 2018, 856, 61. | 4.5 | 35 |
| 54 | Thermal Pressure in the Cold Neutral Medium of Nearby Galaxies. Astrophysical Journal, 2017, 835, 201. | 4.5 | 33 |

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| 55 | Spitzer Space Telescope Detection of the Young Supernova Remnant 1E 0102.2-7219. Astrophysical Journal, 2005, 632, L103-L106. | 4.5 | 32 |
| 56 | Molecular Cloud Populations in the Context of Their Host Galaxy Environments: A Multiwavelength Perspective. Astronomical Journal, 2022, 164, 43. | 4.7 | 31 |
| 57 | The Resolved Distributions of Dust Mass and Temperature in Local Group Galaxies. Astrophysical Journal, 2019, 874, 141. | 4.5 | 29 |
| 58 | METAL: The Metal Evolution, Transport, and Abundance in the Large Magellanic Cloud Hubble Program. I. Overview and Initial Results. Astrophysical Journal, 2019, 871, 151. | 4.5 | 27 |
| 59 | PDRs4All: A JWST Early Release Science Program on Radiative Feedback from Massive Stars. Publications of the Astronomical Society of the Pacific, 2022, 134, 054301. | 3.1 | 26 |
| 60 | The Origin of [C ii] 157 Î¼m Emission in a Five-component Interstellar Medium: The Case of NGC 3184 and NGC 628. Astrophysical Journal, 2017, 842, 4. | 4.5 | 24 |
| 61 | Risk of thromboembolic disease in men with prostate cancer undergoing androgen deprivation therapy. BJU International, 2016, 118, 391-398. | 2.5 | 23 |
| 62 | [C i](1â€“0) and [C i](2â€“1) in Resolved Local Galaxies*. Astrophysical Journal, 2019, 887, 105. | 4.5 | 22 |
| 63 | The 2D metallicity distribution and mixing scales of nearby galaxies. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1303-1322. | 4.4 | 22 |
| 64 | Prerequisites for carrying out physiotherapy and physical activity â€“ experiences from adults with cerebral palsy. Disability and Rehabilitation, 2009, 31, 161-169. | 1.8 | 21 |
| 65 | THE MOLECULAR CLOUDS FUELING A 1/5 SOLAR METALLICITY STARBURST. Astrophysical Journal, 2016, 828, 50. | 4.5 | 21 |
| 66 | METAL: The Metal Evolution, Transport, and Abundance in the Large Magellanic Cloud Hubble Program. II. Variations of Interstellar Depletions and Dust-to-gas Ratio within the LMC. Astrophysical Journal, 2021, 910, 95. | 4.5 | 21 |
| 67 | Mapping the Escape Fraction of Ionizing Photons Using Resolved Stars: A Much Higher Escape Fraction for NGC 4214. Astrophysical Journal, 2020, 902, 54. | 4.5 | 21 |
| 68 | A Preliminary Investigation of the Diffuse Interstellar Line at 8621 Ã.... Publications of the Astronomical Society of the Pacific, 2007, 119, 1268-1277. | 3.1 | 20 |
| 69 | PHIBSS: exploring the dependence of the COâ€“H2 conversion factor on total mass surface density at z<1.5. Monthly Notices of the Royal Astronomical Society, 2017, 467, 4886-4901. | 4.4 | 20 |
| 70 | The Small Magellanic Cloud Investigation of Dust and Gas Evolution (SMIDGE): The Dust Extinction Curve from Red Clump Stars. Astrophysical Journal, 2017, 847, 102. | 4.5 | 20 |
| 71 | Molecular Gas Properties and CO-to-H<sub>2</sub> Conversion Factors in the Central Kiloparsec of NGC 3351. Astrophysical Journal, 2022, 925, 72. | 4.5 | 20 |
| 72 | INVESTIGATING THE PRESENCE OF 500 Î¼m SUBMILLIMETER EXCESS EMISSION IN LOCAL STAR FORMING GALAXIES. Astrophysical Journal, 2013, 778, 51. | 4.5 | 19 |

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| 74 | Resolving the Dust-to-Metals Ratio and CO-to-H<sub>2</sub> Conversion Factor in the Nearby Universe. Astrophysical Journal, 2021, 907, 29. | 4.5 | 19 |
| 75 | Mapping Electron Temperature Variations across a Spiral Arm in NGC 1672. Astrophysical Journal Letters, 2019, 885, L31. | 8.3 | 17 |
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| 77 | The Origins Space Telescope: mission concept overview. , 2018, , . | | 15 |
| 78 | A SOFIA Survey of [C ii] in the Galaxy M51. I. [C ii] as a Tracer of Star Formation. Astrophysical Journal Letters, 2018, 869, L30. | 8.3 | 14 |
| 79 | Benchmarking Dust Emission Models in M101. Astrophysical Journal, 2021, 912, 103. | 4.5 | 14 |
| 80 | Spatial power spectra of dust across the Local Group: No constraint on disc scale height. Monthly Notices of the Royal Astronomical Society, 2020, 492, 2663-2682. | 4.4 | 13 |
| 81 | SPHEREx: an all-sky NIR spectral survey. , 2018, , . | | 13 |
| 82 | Attenuation Modified by DIG and Dust as Seen in M31. Astrophysical Journal, 2017, 844, 155. | 4.5 | 12 |
| 83 | The Survey of Lines in M31 (SLIM): The Drivers of the [C ii]/TIR Variation. Astrophysical Journal, 2017, 842, 128. | 4.5 | 12 |
| 84 | Calibrating Star Formation Rate Prescriptions at Different Scales (10 pcâ€“1 kpc) in M31. Astrophysical Journal, 2019, 873, 3. | 4.5 | 12 |
| 85 | DUSTY OB STARS IN THE SMALL MAGELLANIC CLOUD. I. OPTICAL SPECTROSCOPY REVEALS PREDOMINANTLY MAIN-SEQUENCE OB STARS. Astrophysical Journal, 2013, 771, 111. | 4.5 | 11 |
| 86 | A lack of constraints on the cold opaque Hâ€‰<scp>i</scp> mass: Hâ€‰<scp>i</scp> spectra in M31 and M33 prefer multicomponent models over a single cold opaque component. Monthly Notices of the Royal Astronomical Society, 2021, 504, 1801-1824. | 4.4 | 11 |
| 87 | DUSTY OB STARS IN THE SMALL MAGELLANIC CLOUD. II. EXTRAGALACTIC DISKS OR EXAMPLES OF THE PLEIADES PHENOMENON?. Astrophysical Journal, 2013, 771, 112. | 4.5 | 10 |
| 88 | METAL: The Metal Evolution, Transport, and Abundance in the Large Magellanic Cloud Hubble Program. III. Interstellar Depletions, Dust-to-Metal, and Dust-to-Gas Ratios versus Metallicity. Astrophysical Journal, 2022, 928, 90. | 4.5 | 9 |
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| 90 | PaÎ², HÎ±, and Attenuation in NGC 5194 and NGC 6946. Astrophysical Journal, 2020, 892, 23. | 4.5 | 8 |

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| 91 | The DUVET Survey: Resolved maps of star formation-driven outflows in a compact, starbursting disc galaxy. Monthly Notices of the Royal Astronomical Society, 2022, 511, 5782-5796. | 4.4 | 8 |
| 92 | Keck Cosmic Web Imager Observations of He ii Emission in I Zw 18. Astrophysical Journal Letters, 2021, 911, L17. | 8.3 | 7 |
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| 98 | Kinematics and Feedback in H ii Regions in the Dwarf Starburst Galaxy IC 10. Astrophysical Journal, 2022, 929, 74. | 4.5 | 1 |
| 99 | The Spitzer spectroscopic survey of the Small Magellanic Cloud: polycyclic aromatic hydrocarbon emission from SMC star-forming regions. Proceedings of the International Astronomical Union, 2008, 4, 160-165. | 0.0 | 0 |
| 100 | A Resolved Search for AGN in the Centers of Nearby Galaxies with WISE. Research Notes of the AAS, 2022, 6, 117. | 0.7 | 0 |