

Kathryn Grasha

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

3,019
citations

126901

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| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | PHANGSâ€“ALMA: Arcsecond CO(2â€“1) Imaging of Nearby Star-forming Galaxies. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 43. | 7.7 | 161 |
| 2 | Legacy ExtraGalactic UV Survey with The Hubble Space Telescope: Stellar Cluster Catalogs and First Insights Into Cluster Formation and Evolution in NGC 628^{âˆ—}. <i>Astrophysical Journal</i> , 2017, 841, 131. | 4.5 | 107 |
| 3 | Distances to PHANGS galaxies: New tip of the red giant branch measurements and adopted distances. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 501, 3621-3639. | 4.4 | 106 |
| 4 | Mapping Metallicity Variations across Nearby Galaxy Disks. <i>Astrophysical Journal</i> , 2019, 887, 80. | 4.5 | 103 |
| 5 | The PHANGS-MUSE survey. <i>Astronomy and Astrophysics</i> , 2022, 659, A191. | 5.1 | 96 |
| 6 | Dynamical Equilibrium in the Molecular ISM in 28 Nearby Star-forming Galaxies. <i>Astrophysical Journal</i> , 2020, 892, 148. | 4.5 | 88 |
| 7 | Molecular Gas Properties on Cloud Scales across the Local Star-forming Galaxy Population. <i>Astrophysical Journal Letters</i> , 2020, 901, L8. | 8.3 | 85 |
| 8 | PHANGSâ€“ALMA Data Processing and Pipeline. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 19. | 7.7 | 79 |
| 9 | New constraints on the 12CO(2â€“1)/(1â€“0) line ratio across nearby disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 3221-3245. | 4.4 | 71 |
| 10 | The spatial relation between young star clusters and molecular clouds in M51 with LEGUS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 483, 4707-4723. | 4.4 | 70 |
| 11 | Effective Radii of Young, Massive Star Clusters in Two LEGUS Galaxies^{âˆ—}. <i>Astrophysical Journal</i> , 2017, 841, 92. | 4.5 | 66 |
| 12 | 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 |
| 13 | The Resolved Stellar Populations in the LEGUS Galaxies1. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 23. | 7.7 | 63 |
| 14 | Connecting young star clusters to CO molecular gas in NGC 7793 with ALMAâ€“LEGUS. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 1016-1027. | 4.4 | 62 |
| 15 | On the duration of the embedded phase of star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 487-509. | 4.4 | 61 |
| 16 | The Hierarchical Distribution of the Young Stellar Clusters in Six Local Star-forming Galaxies. <i>Astrophysical Journal</i> , 2017, 840, 113. | 4.5 | 60 |
| 17 | THE SPATIAL DISTRIBUTION OF THE YOUNG STELLAR CLUSTERS IN THE STAR-FORMING GALAXY NGC 628. <i>Astrophysical Journal</i> , 2015, 815, 93. | 4.5 | 59 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | THE BRIGHTEST YOUNG STAR CLUSTERS IN NGC 5253. <i>Astrophysical Journal</i> , 2015, 811, 75. | 4.5 | 56 |
| 21 | A comprehensive comparative test of seven widely used spectral synthesis models against multi-band photometry of young massive-star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 4296-4322. | 4.4 | 55 |
| 22 | Stellar structures, molecular gas, and star formation across the PHANGS sample of nearby galaxies. <i>Astronomy and Astrophysics</i> , 2021, 656, A133. | 5.1 | 53 |
| 23 | The young star cluster population of M51 with LEGUS II. Testing environmental dependences. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1683-1707. | 4.4 | 52 |
| 24 | Star formation scaling relations at ~ 100 pc from PHANGS: Impact of completeness and spatial scale. <i>Astronomy and Astrophysics</i> , 2021, 650, A134. | 5.1 | 50 |
| 25 | The young star cluster population of M51 with LEGUS I. A comprehensive study of cluster formation and evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 996-1018. | 4.4 | 49 |
| 26 | MAGPHYS+photo-z: Constraining the Physical Properties of Galaxies with Unknown Redshifts. <i>Astrophysical Journal</i> , 2019, 882, 61. | 4.5 | 49 |
| 27 | 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 |
| 28 | Hierarchical Star Formation in Turbulent Media: Evidence from Young Star Clusters. <i>Astrophysical Journal</i> , 2017, 842, 25. | 4.5 | 43 |
| 29 | H II morphologies of star clusters: a LEGUS study of H II region evolution time-scales and stochasticity in low-mass clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 4648-4665. | 4.4 | 42 |
| 30 | Star cluster catalogues for the LEGUS dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 4897-4919. | 4.4 | 42 |
| 31 | Search for star cluster age gradients across spiral arms of three LEGUS disc galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 3590-3604. | 4.4 | 40 |
| 32 | STAR CLUSTER PROPERTIES IN TWO LEGUS GALAXIES COMPUTED WITH STOCHASTIC STELLAR POPULATION SYNTHESIS MODELS. <i>Astrophysical Journal</i> , 2015, 812, 147. | 4.5 | 38 |
| 33 | Hierarchical star formation across the ring galaxy NGC 6503. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 3508-3528. | 4.4 | 34 |
| 34 | PHANGS MUSE: The H II region luminosity function of local star-forming galaxies. <i>Astronomy and Astrophysics</i> , 2022, 658, A188. | 5.1 | 34 |
| 35 | PHANGS HST: star cluster spectral energy distribution fitting with <i>scigale</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1366-1385. | 4.4 | 33 |
| 36 | Hierarchical star formation across the grand-design spiral NGC 1566. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 509-530. | 4.4 | 32 |

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|----|---|-----|-----------|
| 37 | 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 |
| 38 | THE NATURE OF THE SECOND PARAMETER IN THE IRX- \hat{I}^2 RELATION FOR LOCAL GALAXIES. <i>Astrophysical Journal</i> , 2013, 773, 174. | 4.5 | 31 |
| 39 | Molecular Cloud Populations in the Context of Their Host Galaxy Environments: A Multiwavelength Perspective. <i>Astronomical Journal</i> , 2022, 164, 43. | 4.7 | 31 |
| 40 | SIGNALS: I. Survey description. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 5530-5546. | 4.4 | 30 |
| 41 | LEGUS and H α -LEGUS Observations of Star Clusters in NGC 4449: Improved Ages and the Fraction of Light in Clusters as a Function of Age. <i>Astrophysical Journal</i> , 2020, 889, 154. | 4.5 | 29 |
| 42 | Star cluster classification in the PHANGS-HST survey: Comparison between human and machine learning approaches. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 5294-5317. | 4.4 | 28 |
| 43 | Comparing the pre-SNe feedback and environmental pressures for 6000 H α regions across 19 nearby spiral galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 5362-5389. | 4.4 | 27 |
| 44 | PHANGS-HST: new methods for star cluster identification in nearby galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 4094-4127. | 4.4 | 25 |
| 45 | Extinction Maps and Dust-to-gas Ratios in Nearby Galaxies with LEGUS. <i>Astrophysical Journal</i> , 2018, 855, 133. | 4.5 | 24 |
| 46 | Star Formation Histories of the LEGUS Dwarf Galaxies. I. Recent History of NGC 1705, NGC 4449, and Holmberg II*. <i>Astrophysical Journal</i> , 2018, 856, 62. | 4.5 | 24 |
| 47 | Dense molecular gas properties on 100 pc scales across the disc of NGC 3627. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 963-988. | 4.4 | 24 |
| 48 | A Search for Intrinsic H i 21 cm and OH 18 cm Absorption toward Compact Radio Sources. <i>Astrophysical Journal, Supplement Series</i> , 2019, 245, 3. | 7.7 | 23 |
| 49 | Studying the ISM at ~ 10 pc scale in NGC 7793 with MUSE. <i>Astronomy and Astrophysics</i> , 2020, 635, A134. | 5.1 | 23 |
| 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 | Looking for Obscured Young Star Clusters in NGC 1313. <i>Astrophysical Journal</i> , 2021, 909, 121. | 4.5 | 20 |
| 53 | Star Formation Histories of the LEGUS Dwarf Galaxies. II. Spatially Resolved Star Formation History of the Magellanic Irregular NGC 4449. <i>Astrophysical Journal</i> , 2018, 857, 63. | 4.5 | 19 |
| 54 | Frequency and nature of central molecular outflows in nearby star-forming disk galaxies. <i>Astronomy and Astrophysics</i> , 2021, 653, A172. | 5.1 | 19 |

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|----|--|-----|-----------|
| 55 | The Gas Star Formation Cycle in Nearby Star-forming Galaxies. II. Resolved Distributions of CO and H ₂ Emission for 49 PHANGS Galaxies. <i>Astrophysical Journal</i> , 2022, 927, 9. | 4.5 | 19 |
| 56 | Star Formation Histories of the LEGUS Spiral Galaxies. I. The Flocculent Spiral NGC 7793. <i>Astrophysical Journal</i> , 2019, 878, 1. | 4.5 | 18 |
| 57 | The properties, origin and evolution of stellar clusters in galaxy simulations and observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 3580-3596. | 4.4 | 17 |
| 58 | Exploring the IMF of star clusters: a joint SLUG and LEGUS effort. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 2464-2480. | 4.4 | 17 |
| 59 | Stromlo Stellar Tracks: Non-solar-scaled Abundances for Massive Stars. <i>Astrophysical Journal</i> , 2021, 908, 241. | 4.5 | 17 |
| 60 | Mapping Electron Temperature Variations across a Spiral Arm in NGC 1672. <i>Astrophysical Journal Letters</i> , 2019, 885, L31. | 8.3 | 17 |
| 61 | Bright, relatively isolated star clusters in PHANGS HST galaxies: Aperture corrections, quantitative morphologies, and comparison with synthetic stellar population models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 510, 32-53. | 4.4 | 16 |
| 62 | Spatially Resolved Dust, Gas, and Star Formation in the Dwarf Magellanic Irregular NGC 4449. <i>Astrophysical Journal</i> , 2018, 852, 106. | 4.5 | 15 |
| 63 | The evolution of neutral hydrogen over the past 11 Gyr via 21 cm absorption. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 883-898. | 4.4 | 15 |
| 64 | The First Large Absorption Survey in H I (FLASH): I. Science goals and survey design. <i>Publications of the Astronomical Society of Australia</i> , 2022, 39, . | 3.4 | 15 |
| 65 | Metallicity, Ionization Parameter, and Pressure Variations of H II Regions in the TYPHOON Spiral Galaxies: NGC 1566, NGC 2835, NGC 3521, NGC 5068, NGC 5236, and NGC 7793. <i>Astrophysical Journal</i> , 2022, 929, 118. | 4.5 | 15 |
| 66 | Studying the ISM at 1/4 pc scale in NGC 7793 with MUSE. <i>Astronomy and Astrophysics</i> , 2021, 650, A103. | 5.1 | 14 |
| 67 | A 3 mm high-resolution molecular line survey towards the centre of the nearby spiral galaxy NGC 6946. <i>Astronomy and Astrophysics</i> , 2022, 659, A173. | 5.1 | 14 |
| 68 | Candidate LBV stars in galaxy NGC 7793 found via HST photometry + MUSE spectroscopy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 2410-2428. | 4.4 | 12 |
| 69 | Revisiting Attenuation Curves: The Case of NGC 3351*. <i>Astrophysical Journal</i> , 2021, 913, 37. | 4.5 | 12 |
| 70 | Linking stellar populations to H II regions across nearby galaxies. <i>Astronomy and Astrophysics</i> , 2022, 662, L6. | 5.1 | 11 |
| 71 | The Organization of Cloud-scale Gas Density Structure: High-resolution CO versus 3.6 μm Brightness Contrasts in Nearby Galaxies. <i>Astrophysical Journal</i> , 2021, 913, 113. | 4.5 | 10 |
| 72 | Synthetic photometry of OB star clusters with stochastically sampled IMFs: analysis of models and HST observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 522-549. | 4.4 | 8 |

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|----|--|-----|-----------|
| 73 | The Age Dependence of Mid-infrared Emission around Young Star Clusters. <i>Astrophysical Journal</i> , 2020, 896, 16. | 4.5 | 7 |
| 74 | The dependence of the hierarchical distribution of star clusters on galactic environment. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5542-5566. | 4.4 | 7 |
| 75 | A Machine-learning Approach to Integral Field Unit Spectroscopy Observations. II. H ii Region Line Ratios. <i>Astrophysical Journal</i> , 2021, 910, 129. | 4.5 | 6 |
| 76 | The Dense Gas Mass Fraction and the Relationship to Star Formation in M51. <i>Astrophysical Journal</i> , 2022, 930, 170. | 4.5 | 5 |
| 77 | A Study of Two Dwarf Irregular Galaxies with Asymmetrical Star Formation Distributions. <i>Astrophysical Journal</i> , 2018, 855, 7. | 4.5 | 4 |
| 78 | A Comparison of Young Star Properties with Local Galactic Environment for LEGUS/LITTLE THINGS Dwarf Irregular Galaxies. <i>Astronomical Journal</i> , 2018, 156, 21. | 4.7 | 4 |
| 79 | Spatial Segregation of Massive Clusters in Dwarf Galaxies. <i>Astrophysical Journal Letters</i> , 2020, 888, L27. | 8.3 | 3 |
| 80 | An ALMA/HST Study of Millimeter Dust Emission and Star Clusters. <i>Astrophysical Journal</i> , 2019, 884, 112. | 4.5 | 1 |
| 81 | A Machine-learning Approach to Integral Field Unit Spectroscopy Observations. III. Disentangling Multiple Components in H ii Regions. <i>Astrophysical Journal</i> , 2021, 923, 169. | 4.5 | 1 |
| 82 | Studying the ISM at ~ 10 pc scale in NGC 7793 with MUSE. <i>Astronomy and Astrophysics</i> , 2022, 663, C2. | 5.1 | 1 |
| 83 | Constraining star formation timescales with molecular gas and young star clusters. <i>Proceedings of the International Astronomical Union</i> , 2019, 15, 350-352. | 0.0 | 0 |