

**National Optical Astronomy Observatory
Community Science and Data Center**

GEMINI PUBLICATIONS FROM U.S. AWARDED TIME

FY 19 (Oct. 2018–Sept. 2019), Publications resulted: 109

<http://www.gemini.edu/science/publications/>

Abbott, T.M.C., ... Walker, A.R., et al. 2019, ApJL, 872, L30, “First Cosmology Results Using Type Ia Supernovae from the Dark Energy Survey: Constraints on Cosmological Parameters”

Abia, C., Cristallo, S., Cunha, K., de Laverny, P., **Smith, V.V.** 2019, A&A, 625, A40, “Additional Fluorine Abundance Determinations in Evolved Stars”

Allison, J.R., et al. 2019, MNRAS, 482, 2934, “PKS B1740-517: An ALMA View of the Cold Gas Feeding a Distant Interacting Young Radio Galaxy”

Anderson, J.P., et al. 2018, A&A, 620, A67, “A Nearby Super-luminous Supernova with a Long Pre-maximum “Plateau” and Strong C_{II} Features”

Arnason, R.M., Barmby, P., Bahramian, A., Maccarone, T.J., Zepf, S.E. 2019, MNRAS, 485, 2259, “Multiwavelength Survey of X-ray Sources in the Sculptor Dwarf Spheroidal Galaxy”

Ascenzi, S., et al. 2019, MNRAS, 486, 672, “A Luminosity Distribution for Kilonovae Based on Short Gamma-ray Burst Afterglows”

Ashall, C., et al. 2019, ApJL, 875, L14, “*Carnegie Supernova Project-II*: Using Near-Infrared Spectroscopy to Determine the Location of the Outer ⁵⁶Ni in Type Ia Supernovae”

Baravalle, L.D., et al. 2019, ApJ, 874, 46, “The First Galaxy Cluster Discovered by the VISTA Variables in the Vía Láctea Survey”

Birrer, S., et al. 2019, MNRAS, 484, 4726, “H0LiCOW–IX. Cosmographic Analysis of the Doubly Imaged Quasar SDSS 1206+4332 and a New Measurement of the Hubble Constant”

Bixel, A., et al. 2019, AJ, 157, 68, “ACCESS: Ground-Based Optical Transmission Spectroscopy of the Hot Jupiter WASP-4b”

Bostroem, K.A., et al. 2019, MNRAS, 485, 5120, “Signatures of Circumstellar Interaction in the Type III Supernova ASASSN-15oz”

Brown, P.J., et al. 2019, AJ, 877, 152, “Red and Reddened: Ultraviolet through Near-Infrared Observations of Type Ia Supernova 2017erp”

Brum, C., et al. 2019, MNRAS, 486, 691, “A Close Look at the Dwarf AGN of NGC 4395: Optical and Near-IR Integral Field Spectroscopy”

Cabral, N., et al. 2019, A&A, 621, A102, “XI. No Active Centaurs in the Outer Solar System Origins Survey”

Calamida, A., Matheson, T., Saha, A., ... Narayan, G., Claver, J., ... Points, S., et al. 2019, ApJ, 872, 199, “Photometry and Spectroscopy of Faint Candidate Spectrophotometric Standard DA White Dwarfs”

Capasso, R., et al. 2019, MNRAS, 482, 1043, “Galaxy Kinematics and Mass Calibration in Massive SZE-selected Galaxy Clusters to $z = 1.3$ ”

Coatman, L., et al. 2019, MNRAS, 486, 5335, “Kinematics of C IV and [O III] Emission in Luminous High-Redshift Quasars”

Comerford, J.M., et al. 2018, ApJ, 867, 66, “The Origin of Double-Peaked Narrow Lines in Active Galactic Nuclei. IV. Association with Galaxy Mergers”

Crighton, N.H.M., et al. 2019, MNRAS, 482, 1456, “Imprints of the First Billion Years: Lyman Limit Systems at $z \sim 5$ ”

Dattilo, A., ... **Everett, M.E., et al.** 2019, AJ, 157, 169, “Identifying Exoplanets with Deep Learning. II. Two New Super-Earths Uncovered by a Neural Network in K2 Data”

David, T.J., et al. 2019, ApJ, 872, 161, “Age Determination in Upper Scorpius with Eclipsing Binaries”

de Kleer, K., de Pater, I., Ádámkóvics, M. 2019, Icar, 317, 104, “Emission from Volcanic SO Gas on Io at High Spectral Resolution”

de Kleer, K., et al. 2019, AJ, 158, 29, “Io’s Volcanic Activity from Time Domain Adaptive Optics Observations: 2013–2018”

Decker, B., et al. 2019, ApJ, 878, 72, “The Massive and Distant Clusters of WISE Survey VI: Stellar Mass Fractions of a Sample of High-Redshift Infrared-Selected Clusters”

Dupuy, T.J., Brandt, T.D., Kratter, K.M., Bowler, B.P. 2019, ApJL, 871, L4, “A Model-Independent Mass and Moderate Eccentricity for β Pic b”

Ene, I., et al. 2019, ApJ, 878, 57, “The MASSIVE Survey XIII—Spatially Resolved Stellar Kinematics in the Central 1 kpc of 20 Massive Elliptical Galaxies with the GMOS-North Integral-Field Spectrograph”

Fan, X., et al. 2019, ApJL, 870, L11, “The Discovery of a Gravitationally Lensed Quasar at $z = 6.51$ ”

Fernández-Ontiveros, J.A., et al. 2019, MNRAS, 485, 5377, “A Compact Jet at the Infrared Heart of the Prototypical Low-Luminosity AGN in NGC 1052”

Fisher, D.B., et al. 2019, ApJ, 870, 46, “Testing Feedback-Regulated Star Formation in Gas-Rich, Turbulent Disk Galaxies”

Fontanive, C., et al. 2019, MNRAS, 485, 4967, “A High Binary Fraction for the Most Massive Close-In Giant Planets and Brown Dwarf Desert Members”

Förster Schreiber, N.M., et al. 2019, ApJ, 875, 21, “The KMOS^{3D} Survey: Demographics and Properties of Galactic Outflows at $z = 0.6-2.7$ ”

Frost, A.J., Oudmaijer, R.D., de Wit, W.J., Lumsden, S.L. 2019, A&A, 625, A44, “A Multi-scale Exploration of a Massive Young Stellar Object. A Transition Disk around G305.20+0.21?”

Frye, B.L., ... **Norman, D.**, et al. 2019, ApJ, 871, 51, “PLCK G165.7+67.0: Analysis of a Massive Lensing Cluster in a *Hubble Space Telescope* Census of Submillimeter Giant Arcs Selected Using *Planck/Herschel*”

Frye, B.L., et al. 2019, ApJ, 872, 129, “A Sub-damped Ly α Absorber with Unusual Abundances: Evidence of Gas Recycling in a Low-Redshift Galaxy Group”

Fuller, L., et al. 2019, MNRAS, 483, 3404, “SOFIA/FORCAST Resolves 30–40 μm Extended Dust Emission in Nearby Active Galactic Nuclei”

García-Bernete, I., et al. 2019, MNRAS, 486, 4917, “Torus Model Properties of an Ultra-hard X-ray Selected Sample of Seyfert Galaxies”

Geballe, T.R., et al. 2019, ApJ, 872, 103, “Background Infrared Sources for Studying the Galactic Center’s Interstellar Gas”

Gonzalez, A.H., et al. 2019, ApJS, 240, 33, “The Massive and Distant Clusters of *WISE* Survey. I. Survey Overview and a Catalog of >2000 Galaxy Clusters at $z \approx 1$ ”

Gordon, M.S., et al. 2019, AJ, 157, 57, “Thermal Emission in the Southwest Clump of VY Cma”

Greco, J.P., et al. 2018, ApJ, 866, 112, “A Study of Two Diffuse Dwarf Galaxies in the Field”

Greig, B., Mesinger, A., Bañados, E. 2019, MNRAS, 484, 5094, “Constraints on Reionization from the $z = 7.5$ QSO ULASJ1342+0928”

Guo, H., et al. 2019, MNRAS, 482, 3288, “Constraining Sub-parsec Binary Supermassive Black Holes in Quasars with Multi-epoch Spectroscopy – III. Candidates from Continued Radial Velocity Tests”

Hinkle, K.H., et al. 2019, ApJ, 872, 43, “Infrared Spectroscopy of Symbiotic Stars. XII. The Neutron Star SyXB System 4U 1700+24 = V934 Hercules”

Horch, E.P., et al. 2019, AJ, 157, 56, “Observations of Binary Stars with the Differential Speckle Survey Instrument. VIII. Measures of Metal-Poor and Triple Stars from 2015 to 2018”

Hsiao, E.Y., et al. 2019, PASP, 131, 014002, “Carnegie Supernova Project-II: The Near-Infrared Spectroscopy Program”

Ji, A.P., Simon, J.D., Frebel, A., Venn, K.A., Hansen, T.T. 2019, ApJ, 870, 83, “Chemical Abundances in the Ultra-faint Dwarf Galaxies Grus I and Triangulum II: Neutron-Capture Elements as a Defining Feature of the Faintest Dwarfs”

Jones, M.I., et al. 2019, *A&A*, 625, A16, “HD 2685 b: A Hot Jupiter Orbiting an Early F-type Star Detected by TESS”

Kane, S.R., ... **Everett, M.E.** 2019, *ApJ*, 875, 74, “Discovery of a Compact Companion to a Nearby Star”

Kann, D.A., et al. 2019, *A&A*, 624, A143, “Highly Luminous Supernovae Associated with Gamma-ray Bursts. I. GRB 111209/SN 201 1kl in the Context of Stripped-Envelope and Superluminous Supernovae”

Klose, S., et al. 2019, *A&A*, 622, A138, “Four GRB Supernovae at Redshifts between 0.4 and 0.8 – The Bursts GRB 071112C, 111228A, 120714B, and 130831A”

Kostov, V.B., et al. 2019, *AJ*, 158, 32, “The L 98-59 System: Three Transiting, Terrestrial-Size Planets Orbiting a Nearby M Dwarf”

Kumari, N., James, B.L., Irwin, M.J., Aloisi, A. 2019, *MNRAS*, 485, 1103, “Small-Scale Chemical Abundance Analysis in a Blue Compact Dwarf Galaxy SBS 1415+437”

Lacy, M., et al. 2019, *MNRAS*, 483, L22, “Direct Detection of Quasar Feedback via the Sunyaev-Zeldovich Effect”

LaMassa, S.M., et al. 2019, *ApJ*, 876, 50, “SDSS-IV eBOSS Spectroscopy of X-ray and *WISE* AGNs in Stripe 82X: Overview of the Demographics of X-ray- and Mid-infrared-selected Active Galactic Nuclei”

Lasker, J., ...**Abbott, T.M.C.**, ...**Smith, R.C.**, ...**Walker, A.R.** 2019, *MNRAS*, 485, 5329, “First Cosmology Results Using Type IA Supernovae from the Dark Energy Survey: Effects of Chromatic Corrections to Supernova Photometry on Measurements of Cosmological Parameters”

Lazorenko, P.F., Sahlmann, J. 2018, *A&A*, 618, A111, “Updated Astrometry and Masses of the LUH 16 Brown Dwarf Binary”

Lee, C.-H. 2019, *AJ*, 157, 14, “Spectroscopic Confirmation of the Quadruply Lensed Quasar WG0214–2105”

Leggett, S.K., et al. 2018, *ApJS*, 239, 26, “Distant White Dwarfs in the US Naval Observatory Flagstaff Station Parallax Sample”

Liu, M., et al. 2019, *ApJ*, 874, 16, “The *SOFIA* Massive (SOMA) Star Formation Survey. II. High Luminosity Protostars”

Livingston, J.H., et al. 2018, *AJ*, 156, 277, “Sixty Validated Planets from K2 Campaigns 5–8”

Logsdon, S.E., Mace, G.N., McLean, I.S., Martin, E.C. 2018, *ApJ*, 867, 96, “Probing Late-Type T Dwarf *J – H* Color Outliers for Signs of Age”

Long, K.S., Winkler, P.F., Blair, W.P. 2019, *ApJ*, 875, 85, “A New, Larger Sample of Supernova Remnants in NGC 6946”

Macaulay, E., ... **Abbott, T.M.C.**, ... **Walker, A.R.**, et al. 2019, MNRAS, 486, 2184, “First Cosmological Results Using Type Ia Supernovae from the Dark Energy Survey: Measurement of the Hubble Constant”

Mann, A.W., et al. 2019, ApJ, 871, 63, “How to Constrain Your M Dwarf. II. The Mass-Luminosity-Metallicity Relation from 0.075 to 0.70 Solar Masses”

Marcus, P.S., Tollefson, J., Wong, M.H., de Pater, I. 2019, Icar, 324, 198, “An Equatorial Thermal Wind Equation: Applications to Jupiter”

Marsset, M., et al. 2019, AJ, 157, 94, “Col-OSSOS: Color and Inclination are Correlated Throughout the Kuiper Belt”

Matharu, J., et al. 2019, MNRAS, 484, 595, “HST/WFC3 Grism Observations of $z \sim 1$ Clusters: The Cluster Versus Field Stellar Mass-Size Relation and Evidence for Size Growth of Quiescent Galaxies from Minor Mergers”

Matsuoka, Y., ... **Lee, C.-H.**, et al. 2019, ApJL, 872, L2, “Discovery of the First Low-Luminosity Quasar at $z > 7$ ”

McDonald, M., et al. 2019, ApJ, 870, 85, “A Detailed Study of the Most Relaxed SPT-selected Galaxy Clusters: Properties of the Cool Core and Central Galaxy”

Monnier, J.D., et al. 2019, ApJ, 872, 122, “Multiple Spiral Arms in the Disk around Intermediate-Mass Binary HD 34700A”

Monty, S., et al. 2018, ApJ, 865, 160, “The GeMS/GSAOI Galactic Globular Cluster Survey (G4CS). I. A Pilot Study of the Stellar Populations in NGC 2298 and NGC 3201”

Narayan, G., **Matheson, T.**, **Saha, A.**, ... **Claver, J.**, et al. 2019, ApJS, 241, 20, “Subpercent Photometry: Faint DA White Dwarf Spectrophotometric Standards for Astrophysical Observatories”

Nguyen, D.D., et al. 2019, ApJ, 872, 104, “Improved Dynamical Constraints on the Masses of the Central Black Holes in Nearby Low-Mass Early-Type Galactic Nuclei and the First Black Hole Determination for NGC 205”

Nicholl, M., Berger, E., Blanchard, P.K., Gomez, S., Chornock, R. 2019, ApJ, 871, 102, “The Nebular-Phase Spectra of Superluminous Supernovae: Physical Insights from Observational and Statistical Properties”

Nielsen, E.L., et al. 2019, AJ, 158, 13, “The Gemini Planet Imager Exoplanet Survey: Giant Planet and Brown Dwarf Demographics from 10-100 AU”

Pandey, S.B., et al. 2019, MNRAS, 485, 5294, “A Multiwavelength Analysis of a Collection of Short-Duration GRBs Observed between 2012 and 2015”

Pearson, K.A., Griffith, C.A., Zellem, R.T., Koskinen, T.T., Roudier, G.M. 2019, AJ, 157, 21, “Ground-Based Spectroscopy of the Exoplanet XO-2b Using a Systematic Wavelength Calibration”

Perley, D.A., et al. 2019, MNRAS, 484, 1031, “The Fast, Luminous Ultraviolet Transient AT2018cow: Extreme Supernova, or Disruption of a Star by an Intermediate-Mass Black Hole?”

Phillips, M.M., et al. 2019, PASP, 131, 014001, “Carnegie Supernova Project-II: Extending the Near-Infrared Hubble Diagram for Type Ia Supernovae to $z \sim 0.1$ ”

Piatti, A.E., Salinas, R., Grebel, E.K. 2019, MNRAS, 482, 980, “A Likely Runaway Star Cluster in the Outer Disc of the Large Magellanic Cloud”

Placco, V.M., et al. 2019, ApJ, 870, 122, “The R-process Alliance: Spectroscopic Follow-Up of Low-Metallicity Star Candidates from the Best & Brightest Survey”

Pontoppidan, K.M., et al. 2019, ApJ, 874, 92, “The Nitrogen Carrier in Inner Protoplanetary Disks”

Rawlings, M.G., Adamson, A.J., Marshall, C.C.M., Sarre, P.J. 2019, MNRAS, 485, 3398, “Near-Infrared Diffuse Interstellar Bands towards Her 36”

Reed, S.L., et al. 2019, MNRAS, 487, 1874, “Three New VHS-DES Quasars at $6.7 < z < 6.9$ and Emission Line Properties at $z > 6.5$ ”

Rodriguez, J.E., et al. 2019, AJ, 157, 191, “An Eccentric Massive Jupiter Orbiting a Subgiant on a 9.5-day Period Discovered in the *Transiting Exoplanet Survey Satellite* Full Frame Images”

Sahu, S., et al. 2019, ApJ, 876, 34, “Detection of a White Dwarf Companion to a Blue Straggler Star in the Outskirts of Globular Cluster NGC 5466 with the Ultraviolet Imaging Telescope (UVIT)”

Sales, D.A., et al. 2019, MNRAS, 486, 3350, “Gemini IFU, VLA, and *HST* Observations of the OH Megamaser Galaxy IRAS17526 + 3253”

Salyk, C., ... **Najita, J.R.**, et al. 2019, ApJ, 874, 24, “A High-Resolution Mid-infrared Survey of Water Emission from Protoplanetary Disks”

Sameer, et al. 2019, MNRAS, 482, 1121, “X-ray and Multi-epoch Optical/UV Investigations of BAL to Non-BAL Quasar Transformations”

Sand, D.J., ... **Matheson, T.**, et al. 2019, ApJL, 877, L4, “Nebular H α Limits for Fast Declining SNe Ia”

Schlaufman, K.C., Thompson, I.B., Casey, A.R. 2018, ApJ, 867, 98, “An Ultra Metal-Poor Star Near the Hydrogen-Burning Limit”

Shen, Y., et al. 2019, ApJ, 873, 35, “Gemini GNIRS Near-Infrared Spectroscopy of 50 Quasars at $z \gtrsim 5.7$ ”

Sickafoose, A.A., et al. 2019, Icar, 319, 657, “A Stellar Occultation by Vanth, a Satellite of (90482) Orcus”

Smith, G.P., et al. 2019, MNRAS, 485, 5180, “Deep and Rapid Observations of Strong-Lensing Galaxy Clusters within the Sky Localization of GW170814”

Smith, N., ... **Smith, R.C.**, et al. 2018, MNRAS, 480, 1466, “Light Echoes from the Plateau in Eta Carinae’s Great Eruption Reveal a Two-Stage Shock-Powered Event”

Smith, N., ... **Matheson, T.**, ... **Smith, R.C.**, et al. 2018, MNRAS, 480, 1457, “Exceptionally Fast Ejecta Seen in Light Echoes of Eta Carinae’s Great Eruption”

Spite, M., et al. 2019, A&A, 624, A44, “Be and O in the Ultra Metal-Poor Dwarf 2MASS J18082002-5104378: The Be–O Correlation”

Sromovsky, L.A., Karkoschka, E., Fry, P.M., de Pater, I., Hammel, H.B. 2019, Icar, 317, 266, “The Methane Distribution and Polar Brightening on Uranus Based on HST/STIS, Keck/NIRC2, and IRTF/SpeX Observations Through 2015”

Szalai, T., et al. 2019, ApJ, 876, 19, “The Type II-P Supernova 2017eaw: From Explosion to the Nebular Phase”

Taddi, F., et al. 2019, A&A, 621, A71, “Analysis of Broad-Lined Type Ic Supernovae from the (Intermediate) Palomar Transient Factory”

Tanvir, N.R., et al. 2019, MNRAS, 483, 5380, “The Fraction of Ionizing Radiation from Massive Stars that Escapes to the Intergalactic Medium”

Tegler, S.C., et al. 2019, AJ, 158, 17, “A New Two-Molecule Combination Band as a Diagnostic of Carbon Monoxide Diluted in Nitrogen Ice on Triton”

Thompson, M.A., Weinberger, A.J., Keller, L.D., Arnold, J.A., Stark, C.C. 2019, ApJ, 875, 45, “Studying the Evolution of Warm Dust Encircling BD +20 307 Using SOFIA”

Trakhtenbrot, B., et al. 2019, NatAs, 3, 242, “A New Class of Flares from Accreting Supermassive Black Holes”

Troja, E., et al. 2018, Natur, 9, 4089, “A Luminous Blue Kilonova and an Off-Axis Jet from a Compact Binary Merger at $z = 0.1341$ ”

Walther, D.M., Geballe, T.R. 2019, ApJ, 875, 153, “New Near-Infrared Imaging and Spectroscopy of NGC 2071-IR”

Wang, F., et al. 2018, ApJL, 869, L9, “The Discovery of a Luminous Broad Absorption Line Quasar at a Redshift of 7.02”

Watson, C., et al. 2019, ApJ, 874, 63, “Galaxy Merger Fractions in Two Clusters at $z \sim 2$ Using the *Hubble Space Telescope*”

Yang, J., et al. 2019, AJ, 157, 236, “Exploring Reionization-Era Quasars. IV. Discovery of Six New $z \gtrsim 6.5$ Quasars with DES, VHS, and unWISE Photometry”

http://www.noao.edu/noao/library/Gemini_Observatory_US_Telescopes_Publications_FY19.pdf

Updated: 7/09/19