

As of March 12, 2026

47 refereed papers
 13 *first-author* refereed papers
 10 second-author refereed papers
 8424 citations to refereed papers (from NASA ADS)
 872 citations to *first-author* refereed papers (from NASA ADS)
 30 Hirsch *h*-index (30 papers with ≥ 30 citations)
 10 DOI-minted dataset publications

First-authored refereed:

1. Ly, C.; Malkan, M. A.; Rigby, J. A.; Nagao, T.; “[The Metal Abundance across Cosmic Time \(MACT\) Survey. II. Evolution of the Mass–Metallicity Relation over 8 Billion Years, Using \[OIII\]4363Å Based Metallicities](#)”, 2016, *Astrophysical Journal*, 828, 67 ([arXiv:1602.01098](#))
2. Ly, C.; Malhotra, S.; Malkan, M. A.; Rigby, J. R.; Kashikawa, N.; de los Reyes, M. A.; Rhoads, J. E.; “[The Metal Abundances across Cosmic Time \(MACT\) Survey. I. Optical Spectroscopy in the Subaru Deep Field](#)”, 2016, *Astrophysical Journal Supplements*, 226, 5 ([arXiv:1602.01089](#))
3. Ly, C.; Rigby, J. R.; Cooper, M. C.; Yan, R.; “[Metal-poor, Strongly Star-forming Galaxies in the DEEP2 Survey: The Relationship between Stellar Mass, Temperature-based Metallicity, and Star Formation Rate](#)”, 2015, *Astrophysical Journal*, 805, 45 ([arXiv:1412.1834](#))
4. Ly, C.; Malkan, M. A.; Nagao, T.; Kashikawa, N.; Shimasaku, K.; Hayashi, M.; “[Direct Gas-phase Metallicities, Stellar Properties, and the Local Environment of Emission-line Galaxies at Redshifts below 0.9](#)”, 2014, *Astrophysical Journal*, 780, 122 ([arXiv:1307.7712](#))
5. Ly, C.; Malkan, M. A.; Kashikawa, N.; Hayashi, M.; Nagao, T.; Shimasaku, K.; Ota, K.; Ross, N. R.; “[The Stellar Population and Star Formation Rates of \$z \sim 1.5\$ - \$1.6\$ \[O II\] Emitting Galaxies Selected from Narrow-Band Emission-Line Surveys](#)”, 2012, *Astrophysical Journal*, 757, 63 ([arXiv:1206.4303](#))
6. Ly, C.; Malkan, M. A.; Kashikawa, N.; Ota, K.; Shimasaku, K.; Iye, M.; Currie, T.; “[Dust Attenuation and H \$\alpha\$ Star Formation Rates of \$z \sim 0.5\$ Galaxies](#)”, 2012, *Astrophysical Journal Letters*, 747, L16 ([arXiv:1202.0278](#))
7. Ly, C.; Malkan, M. A.; Hayashi, M.; Motohara, K.; Kashikawa, N.; Shimasaku, K.; Nagao, T.; Grady, C.; “[A Census of Star-Forming Galaxies at \$z = 1\$ - \$3\$ in the Subaru Deep Field](#)”, 2011, *Astrophysical Journal*, 735, 91 ([arXiv:1104.5019](#))
8. Ly, C.; Lee, J. C.; Dale, D. A.; Momcheva, I.; Salim, S.; Staudaher, S.; Moore, C.; Finn, R.; “[The H \$\alpha\$ Luminosity Functions and Star Formation Rate Volume Density at \$z \sim 0.8\$ from the NEWFIRM H \$\alpha\$ Survey](#)”, 2011, *Astrophysical Journal*, 726, 109 ([arXiv:1011.2759](#))
9. Ly, C.; Malkan, M. A.; Woo, J.-H.; Treu, T.; Kashikawa, N.; Shimasaku, K.; Yoshida, M.; “[Lyman Break Galaxies at \$z \approx 1.8 - 2.8\$: GALEX/NUV Imaging of the Subaru Deep Field](#)”, 2009, *Astrophysical Journal*, 697, 1410
10. Ly, C.; Walker, R. C.; Junor, W.; “[High Frequency VLBA/VLBI Imaging of M87](#)”, 2007, *Astrophysical Journal*, 660, 200-205
11. Ly, C.; Malkan, M.; Kashikawa, N.; Shimasaku, K.; Doi, M.; Nagao, T.; Iye, M.; Kodama, T.; Morokuma, T.; Motohara, K.; “[The Luminosity Function and Star Formation Rate Between Redshifts of 0.07 and 1.47 for Narrow-band Emitters in the Subaru Deep Field](#)”, 2007, *Astrophysical Journal*, 657, 738-759
12. Ly, C.; De Young, D. S.; Bechtold, J.; “[The Discovery of Extended Thermal X-Ray Emission from PKS 2152-699: Evidence for a “Jet-Cloud” Interaction](#)”, 2005, *Astrophysical Journal*, 618, 609

- [DOI] [HDL] [arXiv]
13. Ly, C.; Walker, R. C.; Wrobel, J. M.; “[An Attempt to Probe the Radio Jet Collimation Regions in NGC 4278, NGC 4374 \(M84\), and NGC 6166](#)”, 2004, *Astronomical Journal*, 127, 119 [DOI] [HDL] [arXiv]

Co-authored refereed:

14. Oliver, J.; Rios, F.; Carini, K.; Ly, C., “[Data services at the academic library: a natural history of horses and unicorns](#)”, 2024, *Journal of eScience Librarianship*, 13, 2. [DOI]
15. Wilmer, C. N. A.; Ly, C.; Kikuta, S.; Kattner, S. A.; Jansen, R. A.; Cohen, S. H.; Windhorst, R. A.; Smail, I.; Tompkins, S.; Beacom, J. F.; Cheng, C.; Conselice, C. J.; Frye, B. J.; Koekemoer, A. M.; Hathi, N.; Hyun, M.; Im, M.; Willner, S. P.; Zhao, X.; Brisken, W. A.; Civano, F.; Cotton, W.; Hasinger, G.; Maksym, W. P.; Rieke, M. J.; Grogan, N. A., “[PEARLS: Near-infrared Photometry in the JWST North Ecliptic Pole Time Domain Field](#)”, 2023, *Astrophysical Journal Supplements*, 269, 21. [DOI]
16. Hyun, M.; Im, M.; Smail, I. R.; Cotton, W. D.; Birkin, J. E.; Kikuta, S.; Shim, H.; Willmer, C. N. A.; Condon, J. J.; Windhorst, R. A.; Cohen, S. H.; Jansen, R. A.; Ly, C.; Matsuda, Y.; Fazio, G. G.; Swinbank, A. M.; Yan, H., “[The JCMT SCUBA-2 Survey of the James Webb Space Telescope North Ecliptic Pole Time-Domain Field](#)”, 2023, *Astrophysical Journal Supplements*, 264, 19. [DOI]
17. The Astropy Collaboration; et al. “[The Astropy Project: Sustaining and Growing a Community-oriented Open-source Project and the Latest Major Release \(v5.0\) of the Core Package](#)”, 2022, *Astrophysical Journal*, 935, 167 [DOI] [arXiv:2206.14220]
18. Rios F.; Ly C.; “[Implementing and Managing a Data Curation Workflow in the Cloud](#)”, 2021, *Journal of eScience Librarianship*, 10(3), e1205 [DOI]
19. Shin, K.; Ly, C.; Malkan, M. A.; Malhotra, S.; de los Reyes; Mithi; Rhoads, J. E.; “[The Metal Abundance across Cosmic Time \(MACT\) Survey. III. The Relationship between Stellar Mass and Star Formation Rate in Extremely Low-Mass Galaxies](#)”, 2020, *Monthly Notices of the Royal Astronomical Society*, *Monthly Notices of the Royal Astronomical Society*, 501, 2231 [DOI] [arXiv:1910.10735] [data]
20. Weldon, A. J.; Ly, C.; Cooper, M.; “[The Stellar Population of Metal-poor Galaxies at \$z \sim 1\$ and the Evolution of the Stellar Mass–Gas Metallicity Relation](#)”, 2020, *Monthly Notices of the Royal Astronomical Society*, 491, 2254 [DOI] [arXiv:1910.06975]
21. Conroy, C.; Bonaca, A.; Cargile, P.; Johnson, B. D.; Caldwell, N.; Naidu, R. P.; Zaritsky, D.; Fabricant, D.; Moran, S.; Rhee, J.; Szentgyorgyi, A.; Berlind, P.; Calkins, M. L.; Kattner, S.; Ly, C.; “[Mapping the Stellar Halo with the H3 Spectroscopic Survey](#)”, 2019, *Astrophysical Journal*, 883, 1 [DOI]
22. Hosseinzadeh, G.; Cowperthwaite, P. S.; Gomez, S.; Villar, V. A.; Nicholl, M.; Margutti, R.; Berger, E.; Chornock, R.; Paterson, K.; Fong, W.; Savchenko, V.; Short, P.; Alexander, K.D.; Blanchard, P. K.; Braga, J.; Calkins, M. L.; Cartier, R.; Coppejans, D. L.; Eftekhari, T.; Laskar, T.; Ly, C.; Patton, L.; Pelisoli, I.; Reichart, D. E.; Terreran, G.; Williams, P. K. G.; “[Follow-up of the Neutron Star Bearing Gravitational Wave Candidate Events S190425z and S190426c with MMT and SOAR](#)”, 2019, *Astrophysical Journal Letter*, 880, L4 [arXiv:1905.02186]
23. Walker, R. C.; Hardee, P. E.; Davies, F. B.; Ly, C.; Junor, W.; “[The Structure and Dynamics of the Sub-parsec Scale Jet in M87 based on 50 VLBA Observations over 17 Years at 43 GHz](#)”, 2018, *Astrophysical Journal*, 855, 128 [DOI] [arXiv:1802.06166]
24. Malkan, M.; Cohen, D. P.; Maruyama, M.; Kashikawa, N.; Ly, C.; Shimasaku, K.; Hayashi, M.; Ishikawa, S.; Motohara, K.; “[Luminosity Function, Physical Properties, and Clustering of Lyman-Break Galaxies at \$z \sim 3\$ in the Subaru Deep Field](#)”, 2017, *AAS Journals*, 850, 5 [arXiv:1711.04787]

25. Walker, R.; Hardee, P.; Davis, F.; Ly, C.; Junor, W.; Mertens, F.; Lobanov, A.; [“Observations of the Structure and Dynamics of the Inner M87 Jet”](#), 2016, *Galaxies*, 4, 46
26. Hayashi, M.; Ly, C.; Shimasaku, K.; Motohara, K.; Malkan, M. A.; Nagao, T.; Kashikawa, N.; Goto, R.; Naito, Y.; [“Physical conditions of the interstellar medium in star-forming galaxies at \$z\sim 1.5\$ ”](#), 2015, *Publications of the Astronomical Society of Japan*, 67, 80 ([arXiv:1504.05589](#))
27. de los Reyes, M.; Ly, C.; Lee, J. C.; Salim, S.; Momcheva, I.; Feddersen, J.; Dale, D.; Ouchi, M.; Ono, Y.; Finn, R.; [“The Relationship between Stellar Mass, Gas Metallicity, and Star Formation Rate for H \$\alpha\$ -selected Galaxies at \$z\sim 0.8\$ from the NewH \$\alpha\$ Survey”](#), 2015, *Astronomical Journal*, 149, 79 ([arXiv:1410.1551](#))
28. Salim, S.; Lee, J. C.; Ly, C.; Brinchmann, J.; Davé, R.; Dickinson, M.; Salzer, J. J.; Charlot, S.; [“A Critical Look at the Mass-Metallicity-Star Formation Rate Relation in the Local Universe. I. An Improved Analysis Framework and Confounding Systematics”](#), 2014, *Astrophysical Journal*, 797, 126 ([arXiv:1411.7391](#))
29. Pirzkal, N.; Rothberg, B.; Ly, C.; Malholtra, S.; Rhoads, J. E.; Gorgin, N. A.; Dahlen, T.; Meurer, G. R.; Walsh, J. R.; Hathi, N. P.; Cohen, S. H.; Bellini, A.; Holwerda, B. W.; Straughn, A. N.; Mechtley, M.; [“Emission-Line Galaxies from the Hubble Space Telescope Probing Evolution and Reionization Spectroscopically \(PEARS\) Grism Survey. II: The Complete Sample”](#), 2013, *Astrophysical Journal*, 772, 48 ([arXiv:1208.5535](#))
30. Momcheva, I. G.; Lee, J. C.; Ly, C.; Salim, S.; Dale, D. A.; Ouchi, M.; Finn, R.; Ono, Y.; [“Nebular Attenuation in H \$\alpha\$ -selected Star-forming Galaxies from the NewH \$\alpha\$ Survey”](#), 2013, *Astronomical Journal*, 145, 47 ([arXiv:1207.5479](#))
31. Kashikawa, N.; Nagao, T.; Toshikawa, J.; Ishizaki, Y.; Egami, E.; Hayashi, M.; Ly, C.; Malkan, M. A.; Matsuda, Y.; Shimasaku, K.; Iye, M.; Ota, K.; Shibuya, T.; Taniguchi, Y.; Shioya, Y.; [“A Ly \$\alpha\$ Emitter with Extremely Large Rest-Frame Equivalent Width of \$\sim 900\text{\AA}\$ at \$z=6.5\$: A Candidate of Population III-Dominated Galaxy?”](#), 2012, *Astrophysical Journal*, 761, 85 ([arXiv:1210.4933](#))
32. Urata, Y.; Tsai, P.; Huang, K.; Morokuma, T.; Yasuda, N.; Tanaka, M.; Motohara, K.; Hayashi, M.; Kashikawa, N.; Ly, C.; Malkan, M.; [“Unusual Long and Luminous Optical Transient in the Subaru Deep Field”](#), 2012, *Astrophysical Journal Letters*, 760, L11 ([arXiv:1210.6909](#))
33. Lee, J. C.; Ly, C.; Spitzer, L.; Labbe, I.; Salim, S.; Persson, S. E.; Ouchi, M.; Dale, D. A.; Monson, A.; Murphy, D.; [“A Dual Narrowband Survey for H \$\alpha\$ Emission from Galaxies at \$z=2.2\$: Demonstration of the Technique and Constraints on the H \$\alpha\$ Luminosity Function”](#), 2012, *Publications of the Astronomical Society of the Pacific*, 124, 782 ([arXiv:1205.0017](#))
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35. Abramowski, A.; et al. (446 co-authors); [“The 2010 very high energy gamma-ray flare & 10 years of multi-wavelength observations of M 87”](#), 2011, *Astrophysical Journal*, 746, 151
36. Kashikawa, N.; Shimasaku, K.; Matsuda, Y.; Egami, E.; Jiang, L.; Nagao, T.; Ouchi, M.; Malkan, M. A.; Hattori, T.; Ota, K.; Taniguchi, Y.; Okamura, S.; Ly, C.; Iye, M.; Furusawa, H.; Shioya, Y.; Shibuya, T.; Ishizaki, Y.; Toshikawa, J.; [“Completing the Census of Ly \$\alpha\$ Emitters at the Reionization Epoch”](#), 2011, *Astrophysical Journal*, 734, 119 ([arXiv:1104.2330](#))
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39. Acciari, V. A., et al. (392 co-authors); “[Radio Imaging of the Very-High-Energy \$\gamma\$ -Ray Emission Region in the Central Engine of a Radio Galaxy](#)”, 2009, *Science*, 325, 444
40. Hatsukade, B.; Iono, D.; Motohara, K.; Nakanishi, K.; Hayashi, M.; Shimasaku, K.; Nagao, T.; Tamura, Y.; Malkan, M. A.; Ly, C.; Kohno, K.; “[A Search for Molecular Gas toward a BzK-selected Star-forming Galaxy at \$z = 2.044\$](#) ”, 2009, *Publications of the Astronomical Society of Japan*, 61, 487
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43. Nagao, T.; Sasaki, S. S.; Maiolino, R.; Grady, C.; Kashikawa, N.; Ly, C.; Malkan, M. A.; Motohara, K.; Murayama, T.; Schaerer, D.; Shioya, Y.; Taniguchi, T.; “[A Photometric Survey for Ly \$\alpha\$ -\[He III\] Dual Emitters: Searching for Population III Stars in High-redshift Galaxies](#)”, 2008, *Astrophysical Journal*, 680, 100
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47. Brotherton, M. S.; Ly, C.; Wills, B. J.; Laurent-Muehleisen, S. A.; van Breugel, W.; Antonucci, R. R. J.; “[Multiband VLA Observations of the Faint Radio Core of 3CR 68.1](#)”, 2002, *Astronomical Journal*, 124, 1943 [[DOI](#)] [[HDL](#)] [[arXiv](#)]

Data Publication:

1. Oliver, J.; Rios, F.; Carini, K.; Ly, C., (2023). “[Library Data Services Landscape Scan](#)”. University of Arizona Research Data Repository. Dataset. [[DOI](#)]
2. Wilmer, C. N. A.; Ly, C.; Kikuta, S.; Kattner, S. A.; Jansen, R. A.; Cohen, S. H.; Windhorst, R. A.; Smail, I.; Tompkins, S.; Beacom, J. F.; Cheng, C.; Conselice, C. J.; Frye, B. J.; Koekemoer, A. M.; Hathi, N.; Hyun, M.; Im, M.; Willner, S. P.; Zhao, X.; Brisken, W. A.; Civano, F.; Cotton, W.; Hasinger, G.; Maksym, W. P.; Rieke, M. J.; Grogin, N. A. (2024). [PEARLS: Near-infrared Photometry in the JWST North Ecliptic Pole Time Domain Field](#). Zenodo, Dataset. [[DOI](#)]
3. Ly, C.; Shin, K.; Malkan, M. A.; Malhotra, S.; de los Reyes, M. A.; Rhoads, J. (2022). [Data for "The Metal Abundances across Cosmic Time \(MACT\) Survey. III - The relationship between stellar mass and star formation rate in extremely low-mass galaxies"](#). figshare. Dataset. [[DOI](#)]
4. Merchant, N. C.; Davis, J.; Franks, G. H.; Ly, C.; Rios, F.; Wickizer, T.; Windham, G. D.; Yung, M. (2021). [University of Arizona Test-Trace-Treat COVID-19 testing results](#). University of Arizona Research Data Repository. Dataset. [[DOI](#)]
5. Ly, C.; Rios, F.; Hardeman, M. (2021). [Data Curation in the Cloud with the Figshare API: Presented by the University of Arizona](#). figshare. Media. [[DOI](#)]

6. Oliver, J. C.; Ly, C.; Carini, K.; Rios, F.; Romero Diaz, D. Y.; University of Arizona Libraries (2021). [University of Arizona Libraries 2021 Data Visualization Challenge](#). University of Arizona Research Data Repository. Collection. [DOI]
7. Ly, C.; Oliver, J. C.; Carini, K.; Kollen, C. E.; Rios, F. (2020). [University of Arizona Libraries 2020 Data Visualization Challenge](#). University of Arizona Research Data Repository. Collection. [DOI]
8. Ly, C.; McCleary, J.; Knott, C.; Castiello-Gutiérrez, S. (2020). [Independent Data Aggregation. Quality Control and Visualization of University of Arizona COVID-19 Re-Entry Testing Data](#). University of Arizona Research Data Repository. Dataset. [DOI]
9. McCormick, C.; Ly, C. (2020). [The Evolution of the Stellar Mass-Chemical Abundance Relation over Seven Billion Years](#). University of Arizona Research Data Repository. Presentation. [DOI]
10. Leimbach, R.; Ly, C. (2019). [Recalibrating Strong-Line Metallicity Diagnostics: Chemical Abundances from Composite Galaxy Spectra](#). University of Arizona Research Data Repository. Presentation. [DOI]

Non-refereed, White papers, and Conference Proceedings:

1. Behroozi, P.; et al. (24 co-authors); “[Empirically Constraining Galaxy Evolution](#)”, 2019, White paper submitted to the Astro2020 decadal survey
2. Rudnick, G.; et al. (30 co-authors); “*The need for community access to highly multiplexed spectroscopy: DESI availability in the age of LSST*”, 2014, White paper submitted to the NRC's Committee on a Strategy to Optimize the U.S. OIR System in the Era of the LSST
3. Walker, R. C.; Ly, C.; Junor, W.; Hardee, P. E.; “[Imaging a Jet Base - Prospects with M87](#)”, 2009, *Astronomical Society of the Pacific Conference Series: “Approaching Micro-Arcsecond Resolution with VSOP-2: Astrophysics and Technology”*, 402, 227
4. Walker, R. C.; Ly, C.; Junor, W.; Hardee, P. E.; “[Progress Toward a VLBA Movie of the Jet Collimation Region in M87](#)”, 2008, *Astronomical Society of the Pacific Conference Series: “Extragalactic Jets: Theory and Observation from Radio to Gamma Ray”*, 386, 87
5. Cameron, P. B.; Grcevich, J.; Gugliucci, N.; Hess, K.; Ly, C.; Schillemat, K.; Shetiya, A.; Simpson, C.; Stilp, A.; Venkata, U. R.; Zeiger, B.; “[Radio observations of BD +60 73 = IGR](#)

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