

As of October 2, 2022

44	refereed papers
13	<i>first-author</i> refereed papers
9	second-author refereed papers
2976	citations to refereed papers (from NASA ADS)
746	citations to <i>first-author</i> refereed papers (from NASA ADS)
30	Hirsch <i>h</i> -index (30 papers with ≥ 30 citations)
8	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 Ha Luminosity Functions and Star Formation Rate Volume Density at \$z \sim 0.8\$ from the NEWFIRM Ha 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. 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]
15. Rios F.; Ly C.; “[Implementing and Managing a Data Curation Workflow in the Cloud](#)”, 2021, *Journal of eScience Librarianship*, 10(3), e1205 [DOI]
16. 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]
17. 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]
18. 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]
19. 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]
20. 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]
21. 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]
22. 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
23. 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]
24. 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]
25. 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](https://arxiv.org/abs/1411.7391))
26. 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](https://arxiv.org/abs/1208.5535))
 27. Momcheva, I. G.; Lee, J. C.; **Ly, C.**; Salim, S.; Dale, D. A.; Ouchi, M.; Finn, R.; Ono, Y.; “*Nebular Attenuation in H α -selected Star-forming Galaxies from the NewH α Survey*”, 2013, *Astronomical Journal*, 145, 47 ([arXiv:1207.5479](https://arxiv.org/abs/1207.5479))
 28. 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 α 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](https://arxiv.org/abs/1210.4933))
 29. 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](https://arxiv.org/abs/1210.6909))
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 32. 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
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 36. Acciari, V. A.; **et al.** (392 co-authors); “*Radio Imaging of the Very-High-Energy γ -Ray Emission Region in the Central Engine of a Radio Galaxy*”, 2009, *Science*, 325, 444
 37. 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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 39. Walker, R. C.; **Ly, C.**; Junor, W.; Hardee, P. E.; “*A VLBA movie of the jet launch region in M87*”, 2008, *Journal of Physics Conference Series: “The Universe Under the Microscope - Astrophysics at High Angular Resolution”*, 131, 012053
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 44. 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. **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](#)]
2. 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](#)]
3. **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](#)]
4. 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](#)]
5. **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](#)]
6. **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](#)]
7. 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](#)]
8. 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 J00370+6122*](#)”, 2004, *ATel*, 314