

As of September 22, 2020

41 refereed papers
 13 *first-author* refereed papers
 7 second-author refereed papers
 2524 citations to refereed papers (from NASA ADS)
 665 citations to *first-author* refereed papers (from NASA ADS)
 26 Hirsch *h*-index (26 papers with ≥ 26 citations)
 2 DOI-minted dataset publications

Submitted or in preparation:

1. Shin, K.; Ly, C.; Malkan, M. A.; Malhotra, S.; de los Reyes, M.; Mithi, R.; 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”, 2019, *Monthly Notices of the Royal Astronomical Society*, *Monthly Notices of the Royal Astronomical Society*, submitted ([arXiv:1910.10735](https://arxiv.org/abs/1910.10735))

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](https://arxiv.org/abs/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](https://arxiv.org/abs/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](https://arxiv.org/abs/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](https://arxiv.org/abs/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](https://arxiv.org/abs/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](https://arxiv.org/abs/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](https://arxiv.org/abs/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](https://arxiv.org/abs/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. 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]
 15. 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
 16. 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)
 17. 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*, in press (arXiv:1802.06166)
 18. 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)
 19. 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
 20. 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)
 21. 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)
 22. 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)
 23. 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)

24. 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](#))
25. 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](#))
26. 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](#))
27. 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](#))
28. Nakajima, K.; Ouchi, M.; Shimasaku, K.; Ono, Y.; Lee, J. C.; Foucaud, S.; **Ly, C.**; Dale, D. A.; Salim, S.; Finn, R.; Almaini, O.; Okamura, S.; “[*Average Metallicity and Star Formation Rate of Ly \$\alpha\$ Emitters Probed by a Triple Narrow-Band Survey*](#)”, 2012, *Astrophysical Journal*, 745, 12
29. 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
30. 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](#))
31. Ota, K.; **Ly, C.**; Malkan, M. A.; Motohara, K.; Hayashi, M.; Shimasaku, K.; Morokuma, T.; Iye, M.; Kashikawa, N.; Hattori, Takashi; “[*Spitzer Space Telescope Constraint on the Stellar Mass of a \$z = 6.96\$ Ly \$\alpha\$ Emitter*](#)”, 2010, *Publications of the Astronomical Society of Japan*, 62, 1167
32. Doherty, M.; Tanaka, M.; DeBreuck, C.; **Ly, C.**; Kodama, T.; Kurk, J.; Seymour, N.; Stern, D.; Vernet, J.; Kajisawa, M.; Tanaka, I.; Venemans, B.; “[*Optical and near-IR spectroscopy of candidate red galaxies in two \$z\sim 2.5\$ proto-clusters*](#)”, 2009, *Astronomy & Astrophysics*, 509, 83
33. 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
34. 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
35. Hayashi, M.; Motohara, K.; Shimasaku, K.; Onodera, M.; Uchimoto, Y. K.; Kashikawa, N.; Yoshida, M.; Okamura, S.; **Ly, C.**; Malkan, M. A.; “[*Star Formation Rates and Metallicities of K-selected Star Forming Galaxies at \$z\sim 2\$*](#) ”, 2008, *Astrophysical Journal*, 691, 140
36. 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
37. 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\$ -\[He II\] Dual Emitters: Searching for Population III Stars in High-redshift Galaxies*](#)”, 2008, *Astrophysical Journal*, 680, 100
38. Nagao, T.; Murayama, T.; Maiolino, R.; Marconi, A.; Kashikawa, N.; Ajiki, M.; Hattori, T.; **Ly, C.**; Malkan, M.; Motohara, K.; Ohta, K.; Sasaki, S.; Shioya, Y.; Taniguchi, Y.; “[*High-redshift Ly \$\alpha\$ emitters with a large equivalent width: Properties of i-dropout galaxies with an NB921-band*](#)”

- depression in the Subaru Deep Field*”, 2007, *Astronomy & Astrophysics*, 468, 877
39. Kashikawa, N.; Shimasaku, K.; Malkan, M. A.; Doi, M.; Matsuda, Y.; Ouchi, M.; Taniguchi, Y.; Ly, C.; Nagao, T.; Iye, M.; Motohara, K.; Murayama, T.; Murozono, K.; Narai, K.; Ohta, K.; Okamura, S.; Sasaki, T.; Shioya, Y.; Umemura, M.; “*The End of the Reionization Epoch Probed by Lyman-Alpha Emitters at $z = 6.5$ in the Subaru Deep Field*”, 2006, *Astrophysical Journal*, 648, 7
 40. Shimasaku, K.; Kashikawa, N.; Doi, M.; Ly, C.; Malkan, M. A.; Matsuda, Y.; Ouchi, M.; Hayashino, T.; Iye, M.; Motohara, K.; Murayama, T.; Nagao, T.; Ohta, K.; Okamura, S.; Sasaki, T.; Shioya, Y.; Taniguchi, Y.; “*Ly α Emitters at $z=5.7$ in the Subaru Deep Field*”, 2006, *Publications of the Astronomical Society of Japan*, 58, 313
 41. 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, Chun; Oliver, Jeffrey C; Carini, Kiriann; Kollen, Christine E; Rios, Fernando (2020). *University of Arizona Libraries 2020 Data Visualization Challenge*. University of Arizona Research Data Repository. Collection. [DOI]
2. Ly, Chun; McCleary, Jill; Knott, Cheryl; Castiello-Gutiérrez, Santiago (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]

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