### **PUBLICATION LIST**

# As of January 1, 2020

- 41 refereed papers
- 13 *first-author* refereed papers
  - 7 second-author refereed papers
- 2344 citations to refereed papers (from NASA ADS)
- 630 citations to *first-author* refereed papers (from NASA ADS)
- 27 Hirsch *h*-index (27 papers with  $\geq$  27 citations)

# Submitted or in preparation:

1. 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", 2019, Monthly Notices of the Royal Astronomical Society, Monthly Notices of the Royal Astronomical Society, submitted (arXiv:1910.10735)

#### First-authored refereed:

- 1. Ly, C.; Malkan, M. A.; Rigby, J. A.; Nagao, T.; "<u>The Metal Abundance across Cosmic Time (MACT)</u>
  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.; "<u>Metal-poor, Strongly Star-forming Galaxies in the DEEP2 Survey: The Relationship between Stellar Mass, Temperature-based Metallicity, and Star Formation Rate</u>", 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~1.5-1.6* [O II] *Emitting Galaxies Selected from Narrow-Band Emission-Line Surveys*", 2012, *Astrophysical Journal*, 757, 63 (arXiv:1206.4303)
- Ly, C.; Malkan, M. A.; Kashikawa, N.; Ota, K.; Shimasaku, K.; Iye, M.; Currie, T.; "<u>Dust Attenuation and Hα Star Formation Rates of z~0.5 Galaxies</u>", 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.; "<u>A Census of Star-Forming Galaxies at z=1-3 in the Subaru Deep Field</u>", 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~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* ≈ 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.; "<u>An Attempt to Probe the Radio Jet Collimation Regions in NGC 4278, NGC 4374 (M84), and NGC 6166</u>", 2004, Astronomical Journal, 127, 119 [DOI] [HDL] [arXiv]

## Co-authored refereed:

- 14. Weldon, A. J.; **Ly, C.**; Cooper, M.; "<u>The Stellar Population of Metal-poor Galaxies at z ~ 1 and the Evolution of the Stellar Mass—Gas Metallicity Relation</u>", 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~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~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 Hα-selected Galaxies at z~0.8 from the NewHα 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.; "<u>A Critical Look at the Mass-Metallicity-Star Formation Rate Relation in the Local Universe. I. An Improved Analysis Framework and Confounding Systematics</u>", 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

- <u>Attenuation in Hα-selected Star-forming Galaxies from the NewHα Survey</u>", 2013, Astronomical Journal, 145, 47 (<u>arXiv:1207.5479</u>)
- 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.; "<u>A Lyα Emitter with Extremely Large Rest-Frame Equivalent Width of ~900A at z=6.5: A Candidate of Population III-Dominated Galaxy?</u>", 2012, Astrophysical Journal, 761, 85 (<u>arXiv:1210.4933</u>)
- 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 Ho. Emission from Galaxies at z=2.2:

  Demonstration of the Technique and Constraints on the Ha 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 Lya 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-a 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 Lya 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~2.5 proto-clusters*", 2009, *Astronomy & Astrophysics*, 509, 83
- 33. Acciari, V. A., et al. (392 co-authors); "<u>Radio Imaging of the Very-High-Energy γ-Ray Emission Region in the Central Engine of a Radio Galaxy</u>", 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.; "<u>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</u>
- 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~2", 2008, Astrophysical Journal, 691, 140
- 36. Walker, R. C.; Ly, C.; Junor, W.; Hardee, P. E.; "<u>A VLBA movie of the jet launch region in M87</u>", 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.; "<u>A Photometric Survey for Lyα-[He II]</u>

  <u>Dual Emitters: Searching for Population III Stars in High-redshift Galaxies</u>", 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.; "<u>High-redshift Lyα emitters with a large equivalent width: Properties of i-dropout galaxies with an NB921-band depression in the Subaru Deep Field</u>", 2007, Astronomy & Astrophysics, 468, 877

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- 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.; Nariai, 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.; "*Lyα 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]

# 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