

1. Publication list

I. 査読付き学術論文

主著論文

- 1 ``First Infrared-Based Implications for the Dust Attenuation and Star Formation of Typical Ly α Emitters'', H. Kusakabe, K. Shimasaku, K. Nakajima, & M. Ouchi, ApJL, 800, 2, 2015 [cited: 25].
- 2 ``The stellar mass, star formation rate and dark matter halo properties of LAEs at $z \sim 2$ ', H. Kusakabe, K. Shimasaku, M. Ouchi, K. Nakajima, R. Goto, T. Hashimoto, A. Konno, Y. Harikane, J.D. Silverman, & P.L. Capak, PASJ, 70, 1, 2018 [cited: 38].
[DOI:10.1093/pasj/psx148](https://doi.org/10.1093/pasj/psx148)
- 3 ``The dominant origin of diffuse Ly α halos around Ly α emitters explored by spectral energy distribution fitting and clustering analysis'', H. Kusakabe, K. Shimasaku, R. Momose, M. Ouchi, K. Nakajima, T. Hashimoto, Y. Harikane, J.D. Silverman, & P.L. Capak, PASJ, 71, 3, 2019 [cited: 11].
- 4 ○ ``The MUSE Hubble Ultra Deep Field Survey. XIV. Evolution of the Ly α emitter fraction from $z = 3$ to $z = 6$ ', H. Kusakabe, J. Blaizot, T. Garel, A. Verhamme, R. Bacon, J. Richard, T. Hashimoto, H. Inami, S. Conseil, B. Guiderdoni, A.B. Drake, E. Christian Herenz, J. Schaye, P. Oesch, J. Matthee, R. Anna Marino, K. Borello Schmidt, R. Pello, M. Maseda, F. Leclercq, J. Kerutt, & G. Mahler, A&A, 638, 2020 [cited: 53].
[DOI:10.1051/0004-6361/201937340](https://doi.org/10.1051/0004-6361/201937340)
- 5 ○ ``The MUSE eXtremely Deep Field: Individual detections of Ly α haloes around rest-frame UV-selected galaxies at $z \simeq 2.9-4.4$ ', H. Kusakabe, A. Verhamme, J. Blaizot, T. Garel, L. Wisotzki, F. Leclercq, R. Bacon, J. Schaye, S.G. Gallego, J. Kerutt, J. Matthee, M. Maseda, T. Nanayakkara, R. Pello, J. Richard, L. Tresse, T. Urrutia, & E. Vitte, A&A, 660, 2022 [cited: 29].
[DOI:10.1051/0004-6361/202142302](https://doi.org/10.1051/0004-6361/202142302)
- 6 ○ ``The MUSE eXtremely Deep Field: Detections of circumgalactic SII* emission at $z > \sim 2$ ', H. Kusakabe, V. Mauerhofer, A. Verhamme, T. Garel, J. Blaizot, L. Wisotzki, J. Richard, L.A. Boogaard, F. Leclercq, Y. Guo, A. Claeysens, T. Contini, E.C. Herenz, J. Kerutt, M.V. Maseda, L. Michel-Dansac, T. Nanayakkara, M. Ouchi, I. Pessa, & J. Schaye, A&A, 691, 255, 2024 [cited: 0]. [DOI:10.1051/0004-6361/202451009](https://doi.org/10.1051/0004-6361/202451009)

共著論文

- 7 ``The Intrinsic Distribution of Lyman- α Halos'', J. Pharos, L. Wisotzki, T. Urrutia, R. Bacon, I. Pessa, R. Augustin, I. Goovaerts, D. Kozlova, H. Kusakabe, H. Salas, D. Smirnov, T.T. Thai, & E. Vitte, A&A in press., arXiv:2409.04537, 2024 [cited: 0].

- 8 ``A galactic outflow traced by its extended Mg II emission out to a ~ 30 kpc radius in the Hubble Ultra Deep Field with MUSE'', I. Pessa, L. Wisotzki, T. Urrutia, J. Pharo, R. Augustin, N.F. Bouche, A. Feltre, Y. Guo, D. Kozlova, D. Krajnovic, H. Kusakabe, F. Leclercq, H. Salas, J. Schaye, & A. Verhamme, A&A in press., arXiv:2408.16067, 2024 [cited: 1].
- 9 ``Median surface-brightness profiles of Lyman- α haloes in the MUSE Extremely Deep Field'', Y. Guo, R. Bacon, L. Wisotzki, T. Garel, J. Blaizot, J. Schaye, J. Richard, Y. Herrero Alonso, F. Leclercq, L. Boogaard, H. Kusakabe, J. Pharo, & E. Vitte, A&A, 688, 2024 [cited: 9].
- 10 ``EMPRESS. XIV. Strong High-ionization Lines of Young Galaxies at $z = 0-8$: Ionizing Spectra Consistent with the Intermediate-mass Black Holes with $M_{\text{BH}} \sim 10^3-10^6 M_{\odot}$ '', S. Hatano, M. Ouchi, H. Umeda, K. Nakajima, T. Kawaguchi, Y. Isobe, S. Aoyama, K. Watanabe, Y. Harikane, H. Kusakabe, A. Matsumoto, T.J. Moriya, M. Nishigaki, Y. Ono, M. Onodera, Y. Sugahara, A. Suzuki, Y. Xu, & Y. Zhang, ApJ, 966, 2, 2024 [cited: 6].
- 11 ``Large-scale excess H I absorption around $z \sim 4$ galaxies detected in a background galaxy spectrum in the MUSE eXtremely deep field'', J. Matthee, C. Golling, R. Mackenzie, G. Pezzulli, S. Lilly, J. Schaye, R. Bacon, H. Kusakabe, T. Urrutia, L. Boogaard, J. Brinchmann, M.V. Maseda, T. Garel, N.F. Bouche, & L. Wisotzki, MNRAS, 529, 3, 2024 [cited: 1].
- 12 ``Lyman continuum leaker candidates at $z \sim 3-4$ in the HDUV based on a spectroscopic sample of MUSE LAEs'', J. Kerutt, P.A. Oesch, L. Wisotzki, A. Verhamme, H. Atek, E.C. Herenz, G.D. Illingworth, H. Kusakabe, J. Matthee, V. Mauerhofer, M. Montes, R.P. Naidu, E. Nelson, N. Reddy, J. Schaye, C. Simmonds, T. Urrutia, & E. Vitte, A&A, 684, 2024 [cited: 10].
- 13 ``Linking UV spectral properties of MUSE Ly α emitters at $z \sim 3$ to Lyman continuum escape'', I.G. Kramarenko, J. Kerutt, A. Verhamme, P.A. Oesch, L. Barrufet, J. Matthee, H. Kusakabe, I. Goovaerts, & T.T. Thai, MNRAS, 527, 4, 2024 [cited: 5].
- 14 ``EMPRESS. XIII. Chemical Enrichment of Young Galaxies Near and Far at $z \sim 0$ and 4-10: Fe/O, Ar/O, S/O, and N/O Measurements with a Comparison of Chemical Evolution Models'', K. Watanabe, M. Ouchi, K. Nakajima, Y. Isobe, N. Tominaga, A. Suzuki, M.N. Ishigaki, K. Nomoto, K. Takahashi, Y. Harikane, S. Hatano, H. Kusakabe, T.J. Moriya, M. Nishigaki, Y. Ono, M. Onodera, & Y. Sugahara, ApJ, 962, 1, 2024 [cited: 25].
- 15 ``EMPRESS. XII. Statistics on the Dynamics and Gas Mass Fraction of Extremely-Metal Poor Galaxies'', Y. Xu, M. Ouchi, Y. Isobe, K. Nakajima, S. Ozaki, N.F. Bouche, J.H. Wise, E. Emsellem, H. Kusakabe, T. Hattori, T. Nagao, G. Chiaki, H. Fukushima, Y. Harikane, K. Hayashi, Y. Hirai, J.H. Kim, M.V. Maseda, K. Nagamine, T. Shibuya, Y. Sugahara, H. Yajima, S. Aoyama, S. Fujimoto, K. Fukushima, S. Hatano, A.K. Inoue, T. Ishigaki, M. Kawasaki, T. Kojima, Y. Komiyama, S. Koyama, Y. Koyama, C.-H. Lee, A. Matsumoto, K. Mawatari, T.J. Moriya, K. Motohara, K. Murai, M. Nishigaki, M. Onodera, Y. Ono, M. Rauch, T. Saito, R. Sasaki, A. Suzuki, T.T. Takeuchi, H. Umeda, M. Umemura, K. Watanabe, K. Yabe, & Y. Zhang, ApJ, 961, 1, 2024 [cited: 5].

- 16 ``Bipolar outflows out to 10 kpc for massive galaxies at redshift $z \sim 1$ ", Y. Guo, R. Bacon, N.F. Bouche, L. Wisotzki, J. Schaye, J. Blaizot, A. Verhamme, S. Cantalupo, L.A. Boogaard, J. Brinchmann, M. Cherrey, H. Kusakabe, I. Langan, F. Leclercq, J. Matthee, L. Michel-Dansac, I. Schroetter, & M. Wendt, *Natur*, 624, 7990, 2023 [cited: 13].
- 17 ``JWST/NIRSpec Measurements of Extremely Low Metallicities in High Equivalent Width Ly α Emitters", M.V. Maseda, Z. Lewis, J. Matthee, J.F. Hennawi, L. Boogaard, A. Feltre, T. Nanayakkara, R. Bacon, A. Barger, J. Brinchmann, M. Franx, T. Hashimoto, H. Inami, H. Kusakabe, F. Leclercq, L. Rowland, A.J. Taylor, C. Tremonti, T. Urrutia, J. Schaye, C. Simmonds, & E. Vitte, *ApJ*, 956, 1, 2023 [cited: 26].
- 18 ``Spatially-resolved Spectroscopic Analysis of Ly α Haloes: Radial Evolution of the Ly α Line Profile out to 60 kpc", Y. Guo, R. Bacon, L. Wisotzki, T. Garel, J. Blaizot, J. Schaye, J. Matthee, F. Leclercq, L. Boogaard, J. Richard, A. Verhamme, J. Brinchmann, L. Michel-Dansac, & H. Kusakabe, *A&A in press.*, arXiv:2309.06311, 2023 [cited: 6].
- 19 ``SILVERRUSH. XIII. A Catalog of 20,567 Ly α Emitters at $z = 2-7$ Identified in the Full-depth Data of the Subaru/HSC-SSP and CHORUS Surveys", S. Kikuta, M. Ouchi, T. Shibuya, Y. Liang, H. Umeda, A. Matsumoto, K. Shimasaku, Y. Harikane, Y. Ono, A.K. Inoue, S. Yamanaka, H. Kusakabe, R. Momose, N. Kashikawa, Y. Matsuda, & C.-H. Lee, *ApJS*, 268, 1, 2023 [cited: 6].
- 20 ``EMPRESS. XI. SDSS and JWST Search for Local and z 4-5 Extremely Metal-poor Galaxies (EMPGs): Clustering and Chemical Properties of Local EMPGs", M. Nishigaki, M. Ouchi, K. Nakajima, Y. Ono, M. Rauch, Y. Isobe, Y. Harikane, K. Narita, F. Zahedy, Y. Xu, H. Yajima, H. Fukushima, Y. Hirai, J.H. Kim, S. Inoue, H. Kusakabe, C.-H. Lee, T. Nagao, & M. Onodera, *ApJ*, 952, 1, 2023 [cited: 6].
- 21 ``EMPRESS. IX. Extremely Metal-poor Galaxies are Very Gas-rich Dispersion-dominated Systems: Will the James Webb Space Telescope Witness Gaseous Turbulent High- z Primordial Galaxies?", Y. Isobe, M. Ouchi, K. Nakajima, S. Ozaki, N.F. Bouche, J.H. Wise, Y. Xu, E. Emsellem, H. Kusakabe, T. Hattori, T. Nagao, G. Chiaki, H. Fukushima, Y. Harikane, K. Hayashi, Y. Hirai, J.H. Kim, M.V. Maseda, K. Nagamine, T. Shibuya, Y. Sugahara, H. Yajima, S. Aoyama, S. Fujimoto, K. Fukushima, S. Hatano, A.K. Inoue, T. Ishigaki, M. Kawasaki, T. Kojima, Y. Komiyama, S. Koyama, Y. Koyama, C.-H. Lee, A. Matsumoto, K. Mawatari, T.J. Moriya, K. Motohara, K. Murai, M. Nishigaki, M. Onodera, Y. Ono, M. Rauch, T. Saito, R. Sasaki, A. Suzuki, T.T. Takeuchi, H. Umeda, M. Umemura, K. Watanabe, K. Yabe, & Y. Zhang, *ApJ*, 951, 2, 2023 [cited: 8].
- 22 ``Clustering dependence on Ly α luminosity from MUSE surveys at $3 < z < 6$ ", Y. Herrero Alonso, T. Miyaji, L. Wisotzki, M. Krumpke, J. Matthee, J. Schaye, H. Aceves, H. Kusakabe, & T. Urrutia, *A&A*, 671, 2023 [cited: 11].
- 23 ``A ~ 15 kpc outflow cone piercing through the halo of the blue compact metal-poor galaxy SBS 0335-052E", E.C. Herenz, J. Inoue, H. Salas, B. Koenigs, C. Moya-Sierralta, J.M. Cannon, M. Hayes, P. Papaderos, G. Ostlin, A. Bik, A. Le Reste, H. Kusakabe, A. Monreal-Ibero, & J. Puschnig, *A&A*, 670, 2023 [cited: 6].

- 24 ``The MUSE Hubble Ultra Deep Field surveys: Data release II", R. Bacon, J. Brinchmann, S. Conseil, M. Maseda, T. Nanayakkara, M. Wendt, R. Bacher, D. Mary, P.M. Weilbacher, D. Krajnovic, L. Boogaard, N. Bouche, T. Contini, B. Epinat, A. Feltre, Y. Guo, C. Herenz, W. Kollatschny, H. Kusakabe, F. Leclercq, L. Michel-Dansac, R. Pello, J. Richard, M. Roth, G. Salvignol, J. Schaye, M. Steinmetz, L. Tresse, T. Urrutia, A. Verhamme, E. Vitte, L. Wisotzki, & S.L. Zoutendijk, *A&A*, 670, 2023 [cited: 64].
- 25 ``EMPRESS. VIII. A New Determination of Primordial He Abundance with Extremely Metal-poor Galaxies: A Suggestion of the Lepton Asymmetry and Implications for the Hubble Tension", A. Matsumoto, M. Ouchi, K. Nakajima, M. Kawasaki, K. Murai, K. Motohara, Y. Harikane, Y. Ono, K. Kushibiki, S. Koyama, S. Aoyama, M. Konishi, H. Takahashi, Y. Isobe, H. Umeda, Y. Sugahara, M. Onodera, K. Nagamine, H. Kusakabe, Y. Hirai, T.J. Moriya, T. Shibuya, Y. Komiyama, K. Fukushima, S. Fujimoto, T. Hattori, K. Hayashi, A.K. Inoue, S. Kikuchihara, T. Kojima, Y. Koyama, C.-H. Lee, K. Mawatari, T. Miyata, T. Nagao, S. Ozaki, M. Rauch, T. Saito, A. Suzuki, T.T. Takeuchi, M. Umemura, Y. Xu, K. Yabe, Y. Zhang, & Y. Yoshii, *ApJ*, 941, 2, 2022 [cited: 62].
- 26 ``The Lensed Lyman-Alpha MUSE Arcs Sample (LLAMAS). I. Characterisation of extended Lyman-alpha halos and spatial offsets", A. Claeysens, J. Richard, J. Blaizot, T. Garel, H. Kusakabe, R. Bacon, F.E. Bauer, L. Guaita, A. Jeanneau, D. Lagattuta, F. Leclercq, M. Maseda, J. Matthee, T. Nanayakkara, R. Pello, T.T. Thai, P. Tuan-Anh, A. Verhamme, E. Vitte, & L. Wisotzki, *A&A*, 666, 2022 [cited: 32].
- 27 ``EMPRESS. V. Metallicity Diagnostics of Galaxies over $12 + \log(\text{O}/\text{H}) \approx 6.9\text{--}8.9$ Established by a Local Galaxy Census: Preparing for JWST Spectroscopy", K. Nakajima, M. Ouchi, Y. Xu, M. Rauch, Y. Harikane, M. Nishigaki, Y. Isobe, H. Kusakabe, T. Nagao, Y. Ono, M. Onodera, Y. Sugahara, J.H. Kim, Y. Komiyama, C.-H. Lee, & F.S. Zahedy, *ApJS*, 262, 1, 2022 [cited: 55].
- 28 ``The MUSE eXtremely deep field: first panoramic view of an Mg II emitting intragroup medium", F. Leclercq, A. Verhamme, B. Epinat, C. Simmonds, J. Matthee, N.F. Bouche, T. Garel, T. Urrutia, L. Wisotzki, J. Zabl, R. Bacon, V. Abril-Melgarejo, L. Boogaard, J. Brinchmann, S. Cantalupo, T. Contini, J. Kerutt, H. Kusakabe, M. Maseda, L. Michel-Dansac, S. Muzahid, T. Nanayakkara, J. Richard, & J. Schaye, *A&A*, 663, 2022 [cited: 31].
- 29 ``SILVERRUSH. XII. Intensity Mapping for $\text{Ly } \alpha$ Emission Extending over 100-1000 Comoving Kpc around $z=2\text{--}7$ LAEs with Subaru HSC-SSP and CHORUS Data", S. Kikuchihara, Y. Harikane, M. Ouchi, Y. Ono, T. Shibuya, R. Itoh, R. Kakuma, A.K. Inoue, H. Kusakabe, K. Shimasaku, R. Momose, Y. Sugahara, S. Kikuta, S. Saito, N. Kashikawa, H. Zhang, & C.-H. Lee, *ApJ*, 931, 2, 2022 [cited: 13].
- 30 ``EMPRESS. VI. Outflows Investigated in Low-mass Galaxies with $M^* = 10^4\text{--}10^7 M_{\text{sun}}$: Weak Feedback in Low-mass Galaxies?", Y. Xu, M. Ouchi, M. Rauch, K. Nakajima, Y. Harikane, Y. Sugahara, Y. Komiyama, H. Kusakabe, S. Fujimoto, Y. Isobe, J.H. Kim, Y. Ono, & F.S. Zahedy, *ApJ*, 929, 2, 2022 [cited: 19].
- 31 ``Deciphering stellar metallicities in the early Universe: case study of a young galaxy at $z = 4.77$ in the MUSE eXtremely Deep Field", J. Matthee, A. Feltre, M. Maseda, T.

- Nanayakkara, L. Boogaard, R. Bacon, A. Verhamme, F. Leclercq, H. Kusakabe, T. Urrutia, & L. Wisotzki, *A&A*, 660, 2022 [cited: 27].
- 32 ``Equivalent widths of Lyman α emitters in MUSE-Wide and MUSE-Deep'', J. Kerutt, L. Wisotzki, A. Verhamme, K.B. Schmidt, F. Leclercq, E.C. Herenz, T. Urrutia, T. Garel, T. Hashimoto, M. Maseda, J. Matthee, H. Kusakabe, J. Schaye, J. Richard, B. Guiderdoni, V. Mauerhofer, T. Nanayakkara, & E. Vitte, *A&A*, 659, 2022 [cited: 29].
- 33 ``EMPRESS. IV. Extremely Metal-poor Galaxies Including Very Low-mass Primordial Systems with $M^* = 10^4\text{--}10^5$ Msun and 2%–3% (O/H): High (Fe/O) Suggestive of Metal Enrichment by Hypernovae/Pair-instability Supernovae'', Y. Isobe, M. Ouchi, A. Suzuki, T.J. Moriya, K. Nakajima, K. Nomoto, M. Rauch, Y. Harikane, T. Kojima, Y. Ono, S. Fujimoto, A.K. Inoue, J.H. Kim, Y. Komiyama, H. Kusakabe, C.-H. Lee, M. Maseda, J. Matthee, L. Michel-Dansac, T. Nagao, T. Nanayakkara, M. Nishigaki, M. Onodera, Y. Sugahara, & Y. Xu, *ApJ*, 925, 2, 2022 [cited: 32].
- 34 ``EMPRESS. III. Morphology, Stellar Population, and Dynamics of Extremely Metal-poor Galaxies (EMPGs): Are EMPGs Local Analogs of High- z Young Galaxies?'', Y. Isobe, M. Ouchi, T. Kojima, T. Shibuya, K. Hayashi, M. Rauch, S. Kikuchi-hara, H. Zhang, Y. Ono, S. Fujimoto, Y. Harikane, J.H. Kim, Y. Komiyama, H. Kusakabe, C.-H. Lee, K. Mawatari, M. Onodera, Y. Sugahara, & K. Yabe, *ApJ*, 918, 2, 2021 [cited: 18].
- 35 ``SILVERRUSH. IX. Ly α Intensity Mapping with Star-forming Galaxies at $z = 5.7$ and 6.6 : A Possible Detection of Extended Ly α Emission at $<\sim 100$ Comoving Kiloparsecs around and beyond the Virial-radius Scale of Galaxy Dark Matter Halos'', R. Kakuma, M. Ouchi, Y. Harikane, Y. Ono, A.K. Inoue, Y. Komiyama, H. Kusakabe, C.-H. Lee, Y. Matsuda, Y. Matsuoka, K. Mawatari, R. Momose, T. Shibuya, & Y. Taniguchi, *ApJ*, 916, 1, 2021 [cited: 22].
- 36 ``Constraining the cosmic UV background at $z < 3$ with MUSE Lyman- α emission observations'', S.G. Gallego, S. Cantalupo, S. Sarpas, B. Duboeuf, S. Lilly, G. Pezzulli, R.A. Marino, J. Matthee, L. Wisotzki, J. Schaye, J. Richard, H. Kusakabe, & V. Mauerhofer, *MNRAS*, 504, 1, 2021 [cited: 14].
- 37 ``Subaru Hyper Suprime-Cam excavates colossal over- and underdense structures over 360 deg^2 out to $z = 1$ '', R. Shimakawa, Y. Higuchi, M. Shirasaki, M. Tanaka, Y.-T. Lin, M. Hayashi, R. Momose, C.-H. Lee, H. Kusakabe, T. Kodama, & N. Yamamoto, *MNRAS*, 503, 3, 2021 [cited: 11].
- 38 ``EMPRESS. II. Highly Fe-enriched Metal-poor Galaxies with ~ 1.0 (Fe/O)_{sun} and 0.02 (O/H)_{sun}: Possible Traces of Supermassive (<300 Msun) Stars in Early Galaxies'', T. Kojima, M. Ouchi, M. Rauch, Y. Ono, K. Nakajima, Y. Isobe, S. Fujimoto, Y. Harikane, T. Hashimoto, M. Hayashi, Y. Komiyama, H. Kusakabe, J.H. Kim, C.-H. Lee, S. Mukae, T. Nagao, M. Onodera, T. Shibuya, Y. Sugahara, M. Umemura, & K. Yabe, *ApJ*, 913, 1, 2021 [cited: 31].
- 39 ``Catch Me if You Can: Biased Distribution of Ly α -emitting Galaxies according to the Viewing Direction'', R. Momose, K. Shimasaku, K. Nagamine, I. Shimizu, N. Kashikawa, M. Ando, & H. Kusakabe, *ApJL*, 912, 2, 2021 [cited: 9].

- 40 ``ALMA Lensing Cluster Survey: Bright [C II] 158 μ m Lines from a Multiply Imaged Sub-Lstar Galaxy at $z = 6.0719$ ", S. Fujimoto, M. Oguri, G. Brammer, Y. Yoshimura, N. Laporte, J. Gonzalez-Lopez, G.B. Caminha, K. Kohno, A. Zitrin, J. Richard, M. Ouchi, F.E. Bauer, I. Smail, B. Hatsukade, Y. Ono, V. Kokorev, H. Umehata, D. Schaerer, K. Knudsen, F. Sun, G. Magdis, F. Valentino, Y. Ao, S. Toft, M. Dessauges-Zavadsky, K. Shimasaku, K. Caputi, H. Kusakabe, K. Morokuma-Matsui, K. Shotaro, E. Egami, M.M. Lee, T. Rawle, & D. Espada, *ApJ*, 911, 2, 2021 [cited: 46].
- 41 ``Connection between Galaxies and H I in Circumgalactic and Intergalactic Media: Variation according to Galaxy Stellar Mass and Star Formation Activity", R. Momose, I. Shimizu, K. Nagamine, K. Shimasaku, N. Kashikawa, & H. Kusakabe, *ApJ*, 911, 2, 2021 [cited: 11].
- 42 ``SILVERRUSH X: Machine Learning-aided Selection of 9318 LAEs at $z = 2.2, 3.3, 4.9, 5.7, 6.6$, and 7.0 from the HSC SSP and CHORUS Survey Data", Y. Ono, R. Itoh, T. Shibuya, M. Ouchi, Y. Harikane, S. Yamanaka, A.K. Inoue, T. Amagasa, D. Miura, M. Okura, K. Shimasaku, I. Iwata, Y. Taniguchi, S. Fujimoto, M. Iye, A.T. Jaelani, N. Kashikawa, S. Kikuchihara, S. Kikuta, M.A.R. Kobayashi, H. Kusakabe, C.-H. Lee, Y. Liang, Y. Matsuoka, R. Momose, T. Nagao, K. Nakajima, & K.-. ichi . Tadaki, *ApJ*, 911, 2, 2021 [cited: 21].
- 43 ``Environmental Dependence of Galactic Properties Traced by Ly α Forest Absorption: Diversity among Galaxy Populations", R. Momose, K. Shimasaku, N. Kashikawa, K. Nagamine, I. Shimizu, K. Nakajima, Y. Terao, H. Kusakabe, M. Ando, K. Motohara, & L. Spitler, *ApJ*, 909, 2, 2021 [cited: 29].
- 44 ``The MUSE Extremely Deep Field: The cosmic web in emission at high redshift", R. Bacon, D. Mary, T. Garel, J. Blaizot, M. Maseda, J. Schaye, L. Wisotzki, S. Conseil, J. Brinchmann, F. Leclercq, V. Abril-Melgarejo, L. Boogaard, N.F. Bouche, T. Contini, A. Feltre, B. Guiderdoni, C. Herenz, W. Kollatschny, H. Kusakabe, J. Matthee, L. Michel-Dansac, T. Nanayakkara, J. Richard, M. Roth, K.B. Schmidt, M. Steinmetz, L. Tresse, T. Urrutia, A. Verhamme, P.M. Weilbacher, J. Zabl, & S.L. Zoutendijk, *A&A*, 647, 2021 [cited: 64].
- 45 ``CHORUS. I. Cosmic HydrOgen Reionization Unveiled with Subaru: Overview", A.K. Inoue, S. Yamanaka, M. Ouchi, I. Iwata, K. Shimasaku, Y. Taniguchi, T. Nagao, N. Kashikawa, Y. Ono, K. Mawatari, T. Shibuya, M. Hayashi, H. Ikeda, H. Zhang, Y. Liang, C.-H. Lee, M. Hilmi, S. Kikuta, H. Kusakabe, H. Furusawa, T. Hayashino, M. Kajisawa, Y. Matsuda, K. Nakajima, R. Momose, Y. Harikane, T. Saito, T. Kodama, S. Kikuchihara, M. Iye, & T. Goto, *PASJ*, 72, 6, 2020 [cited: 16].
- 46 ``MUSE observations towards the lensing cluster A2744: Intersection between the LBG and LAE populations at $z \sim 3-7$ ", G. de La Vieuville, R. Pello, J. Richard, G. Mahler, L. Lev^{\^}eque, F.E. Bauer, D.J. Lagattuta, J. Blaizot, T. Contini, L. Guaita, H. Kusakabe, N. Laporte, J. Martinez, M.V. Maseda, D. Schaerer, K.B. Schmidt, & A. Verhamme, *A&A*, 644, 2020 [cited: 12].
- 47 ``The nature of CR7 revealed with MUSE: a young starburst powering extended Ly α emission at $z = 6.6$ ", J. Matthee, G. Pezzulli, R. Mackenzie, S. Cantalupo, H. Kusakabe, F.

- Leclercq, D. Sobral, J. Richard, L. Wisotzki, S. Lilly, L. Boogaard, R. Marino, M. Maseda, & T. Nanayakkara, *MNRAS*, 498, 2, 2020 [cited: 14].
- 48 ``The MUSE Hubble Ultra Deep Field Survey. XV. The mean rest-UV spectra of Ly α emitters at $z < 3$ ", A. Feltre, M.V. Maseda, R. Bacon, J. Pradeep, F. Leclercq, H. Kusakabe, L. Wisotzki, T. Hashimoto, K.B. Schmidt, J. Blaizot, J. Brinchmann, L. Boogaard, S. Cantalupo, D. Carton, H. Inami, W. Kollatschny, R.A. Marino, J. Matthee, T. Nanayakkara, J. Richard, J. Schaye, L. Tresse, T. Urrutia, A. Verhamme, & P.M. Weibacher, *A&A*, 641, 2020 [cited: 34].
- 49 ``ALMA twenty-six arcmin² survey of GOODS-S at one millimeter (ASAGAO): Millimeter properties of stellar mass selected galaxies", Y. Yamaguchi, K. Kohno, B. Hatsukade, T. Wang, Y. Yoshimura, Y. Ao, J.S. Dunlop, E. Egami, D. Espada, S. Fujimoto, N.H. Hayatsu, R.J. Ivison, T. Kodama, H. Kusakabe, T. Nagao, M. Ouchi, W. Rujopakarn, K.-. ichi . Tadaki, Y. Tamura, Y. Ueda, H. Umehata, & W.-H. Wang, *PASJ*, 72, 4, 2020 [cited: 11].
- 50 ``Extremely Metal-poor Representatives Explored by the Subaru Survey (EMPRESS). I. A Successful Machine-learning Selection of Metal-poor Galaxies and the Discovery of a Galaxy with $M^* < 10^6 M_{\odot}$ and $0.016 Z_{\odot}$ ", T. Kojima, M. Ouchi, M. Rauch, Y. Ono, K. Nakajima, Y. Isobe, S. Fujimoto, Y. Harikane, T. Hashimoto, M. Hayashi, Y. Komiyama, H. Kusakabe, J.H. Kim, C.-H. Lee, S. Mukae, T. Nagao, M. Onodera, T. Shibuya, Y. Sugahara, M. Umemura, & K. Yabe, *ApJ*, 898, 2, 2020 [cited: 61].
- 51 ``Elevated ionizing photon production efficiency in faint high-equivalent-width Lyman- α emitters", M.V. Maseda, R. Bacon, D. Lam, J. Matthee, J. Brinchmann, J. Schaye, I. Labbe, K.B. Schmidt, L. Boogaard, R. Bouwens, S. Cantalupo, M. Franx, T. Hashimoto, H. Inami, H. Kusakabe, G. Mahler, T. Nanayakkara, J. Richard, & L. Wisotzki, *MNRAS*, 493, 4, 2020 [cited: 47].
- 52 ``CHORUS. III. Photometric and Spectroscopic Properties of Ly α Blobs at $z = 4.9-7.0$ ", H. Zhang, M. Ouchi, R. Itoh, T. Shibuya, Y. Ono, Y. Harikane, A.K. Inoue, M. Rauch, S. Kikuchihara, K. Nakajima, H. Yajima, S. Arata, M. Abe, I. Iwata, N. Kashikawa, S. Kawanomoto, S. Kikuta, M.A.R. Kobayashi, H. Kusakabe, K. Mawatari, T. Nagao, K. Shimasaku, & Y. Taniguchi, *ApJ*, 891, 2, 2020 [cited: 18].
- 53 ``The MUSE Hubble Ultra Deep Field Survey. XIII. Spatially resolved spectral properties of Lyman α haloes around star-forming galaxies at $z < 3$ ", F. Leclercq, R. Bacon, A. Verhamme, T. Garel, J. Blaizot, J. Brinchmann, S. Cantalupo, A. Claeysens, S. Conseil, T. Contini, T. Hashimoto, E.C. Herenz, H. Kusakabe, R.A. Marino, M. Maseda, J. Matthee, P. Mitchell, G. Pezzulli, J. Richard, K.B. Schmidt, & L. Wisotzki, *A&A*, 635, 2020 [cited: 71].
- 54 ``ALMA 26 arcmin² Survey of GOODS-S at 1 mm (ASAGAO): Near-infrared-dark Faint ALMA Sources", Y. Yamaguchi, K. Kohno, B. Hatsukade, T. Wang, Y. Yoshimura, Y. Ao, K.I. Caputi, J.S. Dunlop, E. Egami, D. Espada, S. Fujimoto, N.H. Hayatsu, R.J. Ivison, T. Kodama, H. Kusakabe, T. Nagao, M. Ouchi, W. Rujopakarn, K.-. ichi . Tadaki, Y. Tamura, Y. Ueda, H. Umehata, W.-H. Wang, & M.S. Yun, *ApJ*, 878, 1, 2019 [cited: 61].
- 55 ``CHORUS. II. Subaru/HSC Determination of the Ly α Luminosity Function at $z = 7.0$: Constraints on Cosmic Reionization Model Parameter", R. Itoh, M. Ouchi, H. Zhang,

- A.K. Inoue, K. Mawatari, T. Shibuya, Y. Harikane, Y. Ono, H. Kusakabe, K. Shimasaku, S. Fujimoto, I. Iwata, M. Kajisawa, N. Kashikawa, S. Kawanomoto, Y. Komiyama, C.-H. Lee, T. Nagao, & Y. Taniguchi, *ApJ*, 867, 1, 2018 [cited: 56].
- 56 ``SILVERRUSH. VI. A simulation of Ly α emitters in the reionization epoch and a comparison with Subaru Hyper Suprime-Cam survey early data", A.K. Inoue, K. Hasegawa, T. Ishiyama, H. Yajima, I. Shimizu, M. Umemura, A. Konno, Y. Harikane, T. Shibuya, M. Ouchi, K. Shimasaku, Y. Ono, H. Kusakabe, R. Higuchi, & C.-H. Lee, *PASJ*, 70, 3, 2018 [cited: 73].
- 57 ``SILVERRUSH. IV. Ly α luminosity functions at $z = 5.7$ and 6.6 studied with ~ 1300 Ly α emitters on the $14\text{-}21\text{ deg}^2$ sky", A. Konno, M. Ouchi, T. Shibuya, Y. Ono, K. Shimasaku, Y. Taniguchi, T. Nagao, M.A.R. Kobayashi, M. Kajisawa, N. Kashikawa, A.K. Inoue, M. Oguri, H. Furusawa, T. Goto, Y. Harikane, R. Higuchi, Y. Komiyama, H. Kusakabe, S. Miyazaki, K. Nakajima, & S.-Y. Wang, *PASJ*, 70, 2018 [cited: 170].
- 58 ``SILVERRUSH. III. Deep optical and near-infrared spectroscopy for Ly α and UV-nebular lines of bright Ly α emitters at $z = 6\text{-}7$ ", T. Shibuya, M. Ouchi, Y. Harikane, M. Rauch, Y. Ono, S. Mukae, R. Higuchi, T. Kojima, S. Yuma, C.-H. Lee, H. Furusawa, A. Konno, C.L. Martin, K. Shimasaku, Y. Taniguchi, M.A.R. Kobayashi, M. Kajisawa, T. Nagao, T. Goto, N. Kashikawa, Y. Komiyama, H. Kusakabe, R. Momose, K. Nakajima, M. Tanaka, & S.-Y. Wang, *PASJ*, 70, 2018 [cited: 119].
- 59 ``SILVERRUSH. II. First catalogs and properties of ~ 2000 Ly α emitters and blobs at $z \sim 6\text{-}7$ identified over the $14\text{-}21\text{ deg}^2$ sky", T. Shibuya, M. Ouchi, A. Konno, R. Higuchi, Y. Harikane, Y. Ono, K. Shimasaku, Y. Taniguchi, M.A.R. Kobayashi, M. Kajisawa, T. Nagao, H. Furusawa, T. Goto, N. Kashikawa, Y. Komiyama, H. Kusakabe, C.-H. Lee, R. Momose, K. Nakajima, M. Tanaka, S.-Y. Wang, & S. Yuma, *PASJ*, 70, 2018 [cited: 68].
- 60 ``First data release of the Hyper Suprime-Cam Subaru Strategic Program", H. Aihara, R. Armstrong, S. Bickerton, J. Bosch, J. Coupon, H. Furusawa, Y. Hayashi, H. Ikeda, Y. Kamata, H. Karoji, S. Kawanomoto, M. Koike, Y. Komiyama, D. Lang, R.H. Lupton, S. Mineo, H. Miyatake, S. Miyazaki, T. Morokuma, Y. Obuchi, Y. Oishi, Y. Okura, P.A. Price, T. Takata, M.M. Tanaka, M. Tanaka, Y. Tanaka, T. Uchida, F. Uraguchi, Y. Utsumi, S.-Y. Wang, Y. Yamada, H. Yamanoi, N. Yasuda, N. Arimoto, M. Chiba, F. Finet, H. Fujimori, S. Fujimoto, J. Furusawa, T. Goto, A. Goulding, J.E. Gunn, Y. Harikane, T. Hattori, M. Hayashi, K.G. He{\l}miniak, R. Higuchi, C. Hikage, P.T.P. Ho, B.-C. Hsieh, K. Huang, S. Huang, M. Imanishi, I. Iwata, A.T. Jaelani, H.-Y. Jian, N. Kashikawa, N. Katayama, T. Kojima, A. Konno, S. Koshida, H. Kusakabe, A. Leauthaud, C.-H. Lee, L. Lin, Y.-T. Lin, R. Mandelbaum, Y. Matsuoka, E. Medezinski, S. Miyama, R. Momose, A. More, S. More, S. Mukae, R. Murata, H. Murayama, T. Nagao, F. Nakata, M. Niida, H. Niikura, A.J. Nishizawa, M. Oguri, N. Okabe, Y. Ono, M. Onodera, M. Onoue, M. Ouchi, T.-S. Pyo, T. Shibuya, K. Shimasaku, M. Sime{\l}, J. Speagle, D.N. Spergel, M.A. Strauss, Y. Sugahara, N. Sugiyama, Y. Suto, N. Suzuki, P.J. Tait, M. Takada, T. Terai, Y. Toba, E.L. Turner, H. Uchiyama, K. Umetsu, Y. Urata, T. Usuda, S. Yeh, & S. Yuma, *PASJ*, 70, 2018 [cited: 542].
- 61 ``The Hyper Suprime-Cam SSP Survey: Overview and survey design", H. Aihara, N. Arimoto, R. Armstrong, S. Arnouts, N.A. Bahcall, S. Bickerton, J. Bosch, K. Bundy, P.L.

Capak, J.H.H. Chan, M. Chiba, J. Coupon, E. Egami, M. Enoki, F. Finet, H. Fujimori, S. Fujimoto, H. Furusawa, J. Furusawa, T. Goto, A. Goulding, J.P. Greco, J.E. Greene, J.E. Gunn, T. Hamana, Y. Harikane, Y. Hashimoto, T. Hattori, M. Hayashi, Y. Hayashi, K.G. He{\l}miniak, R. Higuchi, C. Hikage, P.T.P. Ho, B.-C. Hsieh, K. Huang, S. Huang, H. Ikeda, M. Imanishi, A.K. Inoue, K. Iwasawa, I. Iwata, A.T. Jaelani, H.-Y. Jian, Y. Kamata, H. Karoji, N. Kashikawa, N. Katayama, S. Kawanomoto, I. Kayo, J. Koda, M. Koike, T. Kojima, Y. Komiyama, A. Konno, S. Koshida, Y. Koyama, H. Kusakabe, A. Leauthaud, C.-H. Lee, L. Lin, Y.-T. Lin, R.H. Lupton, R. Mandelbaum, Y. Matsuoka, E. Medezinski, S. Mineo, S. Miyama, H. Miyatake, S. Miyazaki, R. Momose, A. More, S. More, Y. Moritani, T.J. Moriya, T. Morokuma, S. Mukae, R. Murata, H. Murayama, T. Nagao, F. Nakata, M. Niida, H. Niikura, A.J. Nishizawa, Y. Obuchi, M. Oguri, Y. Oishi, N. Okabe, S. Okamoto, Y. Okura, Y. Ono, M. Onodera, M. Onoue, K. Osato, M. Ouchi, P.A. Price, T.-S. Pyo, M. Sako, M. Sawicki, T. Shibuya, K. Shimasaku, A. Shimono, M. Shirasaki, J.D. Silverman, M. Simet, J. Speagle, D.N. Spergel, M.A. Strauss, Y. Sugahara, N. Sugiyama, Y. Suto, S.H. Suyu, N. Suzuki, P.J. Tait, M. Takada, T. Takata, N. Tamura, M.M. Tanaka, M. Tanaka, M. Tanaka, Y. Tanaka, T. Terai, Y. Terashima, Y. Toba, N. Tominaga, J. Toshikawa, E.L. Turner, T. Uchida, H. Uchiyama, K. Umetsu, F. Uraguchi, Y. Urata, T. Usuda, Y. Utsumi, S.-Y. Wang, W.-H. Wang, K.C. Wong, K. Yabe, Y. Yamada, H. Yamanoi, N. Yasuda, S. Yeh, A. Yonehara, & S. Yuma, PASJ, 70, 2018 [cited: 891].

- 62 ``A Hard Ionizing Spectrum in $z = 3-4$ Ly α Emitters with Intense [O III] Emission: Analogs of Galaxies in the Reionization Era?", K. Nakajima, R.S. Ellis, I. Iwata, A.K. Inoue, H. Kusakabe, M. Ouchi, & B.E. Robertson, ApJL, 831, 1, 2016 [cited: 103].
- 63 ``Bright and Faint Ends of Ly α Luminosity Functions at $z = 2$ Determined by the Subaru Survey: Implications for AGNs, Magnification Bias, and ISM H I Evolution", A. Konno, M. Ouchi, K. Nakajima, F. Duval, H. Kusakabe, Y. Ono, & K. Shimasaku, ApJ, 823, 1, 2016 [cited: 101].