

Publication list

I. First author (refereed article)

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 [DOI: 10.1088/2041-8205/800/2/L29](https://doi.org/10.1088/2041-8205/800/2/L29)
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. [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. [DOI: 10.1093/pasj/psz029](https://doi.org/10.1093/pasj/psz029)
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, [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 $z \simeq 2.9\text{--}4.4$ '', 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. [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. [DOI:10.1051/0004-6361/202451009](https://doi.org/10.1051/0004-6361/202451009)

II. Other articles

7. ``SILVERRUSH. XIV. Ly α Luminosity Functions and Angular Correlation Functions from 20,000 Ly α Emitters at $z \sim 2.2\text{--}7.3$ from up to 24 deg² HSC-SSP and CHORUS Surveys: Linking the Postreionization Epoch to the Heart of Reionization'', H. Umeda, M. Ouchi, S. Kikuta, Y. Harikane, Y.

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8. "The MUSE eXtremely Deep Field: Classifying the spectral shapes of Ly α -emitting galaxies," E. Vitte, A. Verhamme, P. Hibon, F. Leclercq, B. Alcalde Pampliega, J. Kerutt, H. Kusakabe, J. Matthee, Y. Guo, R. Bacon, M. Maseda, J. Richard, J. Pharo, J. Schaye, L. Boogaard, T. Nanayakkara, T. Contini, *A&A*, 694, 100, 2025
9. "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*, 691, 66 2024
10. "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
11. "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
12. "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 .
13. "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
14. "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
15. "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
16. "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.

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17. ``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 .
18. ``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 .
19. ``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
20. ``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
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22. ``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 .
23. ``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 .
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