

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 $z \approx 2.9-4.4$ '', 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.
[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. ``No Metallicity Preference in Fast Radio Burst Host Galaxies'', S. Yamasaki, T. Hashimoto, H. Kusakabe, T. Goto, ApJL, in press.
8. ``Quasar Negative Feedback to Surrounding Galaxies Probed with Ly α Emitters and Continuum-

- selected Galaxies'', Y. Suzuki, Y. Matsuoka, S. Kikuta, H. Uchiyama, H. Kusakabe, M. Imanishi, ApJL, 955, 31, 2025
9. ``Association of cold gas, massive galaxies, and AGNs in a filamentary protocluster traced by triple narrow-band imaging'', K. Daikuhara, T. Kodama, H. Kusakabe, C. Steidel, I. Tanaka, S. Kikuta, H. Umehata, R. Shimakawa, Y. Koyama, K. Motohara, M. Konishi, J. Perez-Martinez, M. Kubo, D. Erb, K. Takahashi, K. Fukushima, MNRAS, 544, 2, 2025
 10. ``Comprehensive JWST+ALMA Study on the Extended Ly α Emitters, Himiko and CR7 at z~7: Blue Major Merger Systems in Stark Contrast to Submillimeter Galaxies'', T. Kiyota, M. Ouchi, Y. Xu, Y. Nakazato, K. Soga, H. Yajima, S. Fujimoto, Y. Harikane, K. Nakajima, Y. Ono, D. Sun, H. Kusakabe, D. Ceverino, B. Hatsukade, D. Iono, K. Kohno, K. Nakanishi, ApJ, 995, 150, 2025
 11. ``The extreme starburst J1044+0353 blows kiloparsec-scale bubbles'', E. Herenz, H. Kusakabe, S. Maulick, PASJ, 77, 4, L63-69, 2025
 12. ``RIDEN pilot survey: broad-band selection of candidate quasars with extended Lyman- α nebulae using CLAUDS–HSC–SSP–DUNES2 joint data'', R. Shimakawa, S. Kikuta, H. Kusakabe, M. Sawicki, Y. Liang, R. Momose, S. Gwyn, G. Desprez, MNRAS, 540(4) 3565-3582, 2025
 13. ``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 deg 2 HSC-SSP and CHORUS Surveys: Linking the Postreionization Epoch to the Heart of Reionization'', H. Umeda, M. Ouchi, S. Kikuta, Y. Harikane, Y. Ono, T. Shibuya, A. Inoue, K. Shimasaku, Y. Liang, A. Matsumoto, S. Saito, H. Kusakabe, Y. Kageura, M. Nakane'', ApJS, 277, 2, 2025
 14. ``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
 15. ``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
 16. ``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
 17. ``EMPRESS. XIV. Strong High-ionization Lines of Young Galaxies at $z = 0\text{--}0.8$: Ionizing Spectra Consistent with the Intermediate-mass Black Holes with $M_{\text{BH}} \sim 10^3\text{--}10^6 M_{\odot}$ '', 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
 18. ``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,

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19. ``Lyman continuum leaker candidates at z~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
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21. ``EMPRESS. XIII. Chemical Enrichment of Young Galaxies Near and Far at z ~ 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
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24. ``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 .
25. ``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
26. ``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.

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28. ``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 .
29. ``Clustering dependence on Ly α luminosity from MUSE surveys at $3 < z < 6$ '', Y. Herrero Alonso, T. Miyaji, L. Wisotzki, M. Krumpe, J. Matthee, J. Schaye, H. Aceves, H. Kusakabe, & T. Urrutia, A&A, 671, 2023 .
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31. ``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 .
32. ``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 .
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38. ``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 .
39. ``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 .
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