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Publication list

Total citation = 2402, H-index = 27 (as of Jan. 24 2022)

First author

Journal Article (7 published, 1 Nature in press, 289 citation)

- 8 [Fujimoto, S., Brammer, G., Watson, D., et al.](#), *A dusty, compact object bridging galaxies and quasars at cosmic dawn*, Nature in press, 2022
- 7 [Fujimoto, S., Oguri, M., Brammer, G., et al.](#), *ALMA Lensing Cluster Survey: Bright [C II] 158 μm Lines from a Multiply Imaged Sub- L^* Galaxy at $z = 6.0719$* , [ApJ](#), **911**, 99, 20, 2021
- 6 [Fujimoto, S., Silverman, J. D., Bethermin, M., et al.](#), *The ALPINE-ALMA [C II] Survey: Size of Individual Star-forming Galaxies at $z = 4-6$ and Their Extended Halo Structure*, [ApJ](#), **900**, 1, 2020
- 5 [Fujimoto, S., Oguri, M., Nagao, T., et al.](#), *Truth or Delusion? A Possible Gravitational Lensing Interpretation of the Ultraluminous Quasar SDSS J010013.02+280225.8 at $z = 6.30$* , [ApJ](#), **891**, 64, 8, 2020
- 4 [Fujimoto, S., Ouchi, M., Ferrara, A., et al.](#), *First Identification of 10 kpc [C II] 158 μm Halos around Star-forming Galaxies at $z = 5 - 7$* , [ApJ](#), **887**, 107, 17, 2019
- 3 [Fujimoto, S., Ouchi, M., Kohno, K., et al.](#), *ALMA 26 Arcmin² Survey of GOODS-S at One Millimeter (ASAGAO): Average Morphology of High- z Dusty Star-forming Galaxies in an Exponential Disk ($n \approx 1$)*, [ApJ](#), **861**, 7, 12, 2018
- 2 [Fujimoto, S., Ouchi, M., Shibuya, T., et al.](#), *Demonstrating a New Census of Infrared Galaxies with ALMA (DANCING-ALMA). I. FIR Size and Luminosity Relation at $z = 0 - 6$ Revealed with 1034 ALMA Sources*, [ApJ](#), **850**, 83, 21, 2017
- 1 [Fujimoto, S., Ouchi, M., Ono, Y., et al.](#), *ALMA Census of Faint 1.2 mm Sources Down to ~ 0.02 mJy: Extragalactic Background Light and Dust-poor, High- z Galaxies*, [ApJS](#), **222**, 1, 28, 2016

Book (1 published)

- 1 [Fujimoto, S.](#), *Demographics of the Cold Universe with ALMA: From Interstellar and Circumgalactic Media to Cosmic Structures*, [Springer thesis](#)

Proceedings (2 published)

- 2 [Fujimoto, S.](#), *Cold Molecular Gas Halo at $z \sim 6$ with ngVLA*, [ngVLA Science Memo Series, G002](#)
- 1 [Fujimoto, S., Ouchi, M., Ono, Y., et al.](#), *Resolving the Extragalactic Background Light with Multi-field Deep ALMA Data*, [ASPCS](#), **499**, 21, 2015

Co-author

Journal Article (56 published, 4 in press, 3 submitted, 2113 citation)

- 63 **Bakx, T. J. L. C., Sommovigo, L., Carniani, S., et al.**, *Accurate dust temperature determination in a $z = 7.13$ galaxy*, [MNRAS, 508, L58-L63, 2021](#)
- 62 **Jones, G. C., Vergani, D., Romano, M., et al.**, *The ALPINE-ALMA [C II] Survey: kinematic diversity and rotation in massive star-forming galaxies at $z = 4.4 - 5.9$* , [MNRAS, 507, 3540-3563, 24, 2021](#)
- 61 **Casey, C. M., Zavala, J. A., Manning, S. M., et al.**, *Mapping Obscuration to Reionization with ALMA (MORA): 2mm Efficiently Selects the Highest-Redshift Obscured Galaxies*, [ApJ in press, arXiv:2110.06930, 2021](#)
- 60 **Sun, F., Egami, E., Pérez-González, P. G., et al.**, *Extensive Lensing Survey of Optical and Near-Infrared Dark Objects (El Sonido): HST H-Faint Galaxies behind 101 Lensing Clusters*, [ApJ in press, arXiv:2109.01751, 2021](#)
- 59 **Onoue, M., Matsuoka, Y., Kashikawa, N., et al.**, *Subaru High- z Exploration of Low-luminosity Quasars (SHELLQs). XIV. A Candidate Type II Quasar at $z = 6.1292$* , [ApJ, 919, 61, 11, 2021](#)
- 58 **Romano, M., Cassata, P., Morselli, L., et al.**, *The ALPINE-ALMA [CII] survey. The contribution of major mergers to the galaxy mass assembly at $z \sim 5$* , [A&A, 653, A111, 31, 2021](#)
- 57 **Isobe, Y., Ouchi, M., Kojima, T., et al.**, *EMPRESS. III. Morphology, Stellar Population, and Dynamics of Extremely Metal-poor Galaxies (EMPGs): Are EMPGs Local Analogs of High- z Young Galaxies?*, [ApJ, 918, 54, 14, 2021](#)
- 56 **Valentino, F., Daddi, E., Puglisi, A., et al.**, *The effect of active galactic nuclei on the cold interstellar medium in distant star-forming galaxies*, [A&A in press, arXiv:2109.03842, 2021](#)
- 55 **Laporte, N., Zitrin, A., Ellis, R. S., et al.**, *ALMA Lensing Cluster Survey: a strongly lensed multiply imaged dusty system at $z \geq 6$* , [MNRAS, 505, 4838-4846, 9, 2021](#)
- 54 **Jolly, J.-B., Knudsen, K., Laporte, N., et al.**, *ALMA Lensing Cluster Survey: A spectral stacking analysis of [C II] in lensed $z \sim 6$ galaxies*, [A&A, 652, A128, 16, 2021](#)
- 53 **Isobe, Y., Ouchi, M., Suzuki, A., et al.**, *EMPRESS. IV. Extremely Metal-Poor Galaxies (EMPGs) Including Very Low-Mass Primordial Systems with $M_{\star} = 10^4 - 10^5 M_{\odot}$ and 2–3% $(O/H)_{\odot}$: High (Fe/O) Suggestive of Metal Enrichment by Hypernovae/Pair-Instability Supernovae*, [submitted to ApJ, arXiv:2108.03850, 2021](#)
- 52 **Harikane, Y., Ono, Y., Ouchi, M., et al.**, *GOLDRUSH. IV. Luminosity Functions and Clustering Revealed with $\sim 4,000,000$ Galaxies at $z \sim 2-7$: Galaxy-AGN Transition, Star Formation Efficiency, and Implication for Evolution at $z > 10$* , [submitted to ApJ, arXiv:2108.01090, 2021](#)

- 51 **Shibuya, T., Miura, N., Iwadate, K., et al.**, *Galaxy Morphologies Revealed with Subaru HSC and Super-Resolution Techniques I: Major Merger Fractions of $L_{UV} \sim 3 - 15 L_{UV}^*$ Dropout Galaxies at $z \sim 4-7$* , [submitted to PASJ](#), [arXiv:2106.03728](#), 2021
- 50 **Izumi, T., Matsuoka, Y., Fujimoto, S., et al.**, *Subaru High-z Exploration of Low-luminosity Quasars (SHELLQs). XIII. Large-scale Feedback and Star Formation in a Low-luminosity Quasar at $z = 7.07$ on the Local Black Hole to Host Mass Relation*, [ApJ](#), **914**, 36, 17, 2021
- 49 **Kojima, T., Ouchi, M., Rauch, M., et al.**, *EMPRESS. II. Highly Fe-enriched Metal-poor Galaxies with $\sim 1.0 (Fe/O)Z_{\odot}$ and $0.02 (O/H)Z_{\odot}$: Possible Traces of Supermassive ($> 300M_{\odot}$) Stars in Early Galaxies*, [ApJ](#), **913**, 22, 20, 2021
- 48 **Ono, Y., Itoh, R., Shibuya, T., et al.**, *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*, [ApJ](#), **911**, 78, 20, 2021
- 47 **Sugahara, Y., Inoue, A. K., Hashimoto, T., et al.**, *Big Three Dragons: A [N II] $122 \mu\text{m}$ Constraint and New Dust-continuum Detection of A $z = 7.15$ Bright Lyman Break Galaxy with ALMA*, [ApJ in press](#), [arXiv:2104.02201](#), 2021
- 46 **Zavala, J. A., Casey, C. M., Manning, S. M., et al.**, *The Evolution of the IR Luminosity Function and Dust-obscured Star Formation over the Past 13 Billion Years*, [ApJ](#), **909**, 165, 15, 2021
- 45 **Caputi, K. I., Caminha, G. B., Fujimoto, S., et al.**, *ALMA Lensing Cluster Survey: An ALMA Galaxy Signposting a MUSE Galaxy Group at $z = 4.3$ Behind "El Gordo"*, [ApJ](#), **908**, 146, 9, 2021
- 44 **Loiacono, F., Decarli, R., Gruppioni, C., et al.**, *The ALPINE-ALMA [C II] survey. Luminosity function of serendipitous [C II] line emitters at $z = 5$* , [A&A](#), **646**, A76, 18, 2021
- 43 **Izumi, T., Onoue, M., Matsuoka, Y., et al.**, *Subaru High-z Exploration of Low-luminosity Quasars (SHELLQs). XII. Extended [C II] Structure (Merger or Outflow) in a $z = 6.72$ Red Quasar*, [ApJ](#), **908**, 235, 10, 2021
- 42 **Lagos, C. del P., da Cunha, E., Robotham, A. S. G., et al.**, *Physical properties and evolution of (sub-)millimetre-selected galaxies in the galaxy formation simulation SHARK*, [MNRAS](#), **499**, 1948-1971, 24, 2020
- 41 **Donevski, D., Lapi, A., Malek, K., et al.**, *In pursuit of giants. I. The evolution of the dust-to-stellar mass ratio in distant dusty galaxies*, [A&A](#), **644**, A144, 25, 2020
- 40 **Ishimoto, R., Kashikawa, N., Onoue, M., et al.**, *Subaru High-z Exploration of Low-luminosity Quasars (SHELLQs). XI. Proximity Zone Analysis for Faint Quasar Spectra at $z \sim 6$* , [ApJ](#), **903**, 60, 11, 2020
- 39 **Gruppioni, C., Béthermin, M., Loiacono, F., et al.**, *The ALPINE-ALMA [CII] survey. The nature, luminosity function, and star formation history of dusty galaxies up to $z = 6$* , [A&A](#), **643**, A8, 25, 2020

- 38 **Le Fèvre, O., Béthermin, M., Faisst, A., et al.**, *The ALPINE-ALMA [CII] survey. Survey strategy, observations, and sample properties of 118 star-forming galaxies at $4 < z < 6$* , [A&A, 643, A1, 19, 2020](#)
- 37 **Dessauges-Zavadsky, M., Ginolfi, M., Pozzi, F., et al.**, *The ALPINE-ALMA [C II] survey. Molecular gas budget in the early Universe as traced by [C II]*, [A&A, 643, A5, 17, 2020](#)
- 36 **Cassata, P., Morselli, L., Faisst, A., et al.**, *The ALPINE-ALMA [CII] survey. Small Ly α -[CII] velocity offsets in main-sequence galaxies at $4.4 < z < 6$* , [A&A, 643, A6, 21, 2020](#)
- 35 **Ginolfi, M., Jones, G. C., Béthermin, M., et al.**, *The ALPINE-ALMA [CII] survey. Circumgalactic medium pollution and gas mixing by tidal stripping in a merging system at $z \sim 4.57$* , [A&A, 643, A7, 10, 2020](#)
- 34 **Béthermin, M., Fudamoto, Y., Ginolfi, M., et al.**, *The ALPINE-ALMA [CII] survey: Data processing, catalogs, and statistical source properties*, [A&A, 643, A2, 43, 2020](#)
- 33 **Schaerer, D., Ginolfi, M., Béthermin, M., et al.**, *The ALPINE-ALMA [C II] survey. Little to no evolution in the [C II]-SFR relation over the last 13 Gyr*, [A&A, 643, A3, 10, 2020](#)
- 32 **Fudamoto, Y., Oesch, P. A., Faisst, A., et al.**, *The ALPINE-ALMA [CII] survey. Dust attenuation properties and obscured star formation at $z \sim 4.4 - 5.8$* , [A&A, 643, A4, 13, 2020](#)
- 31 **Kato, N., Matsuoka, Y., Onoue, M., et al.**, *Subaru High-z Exploration of Low-Luminosity Quasars (SHELLQs). IX. Identification of two red quasars at $z > 5.6$* , [PASJ, 72, 84, 14, 2020](#)
- 30 **Yamaguchi, Y., Kohno, K., Hatsukade, B., et al.**, *ALMA twenty-six arcmin² survey of GOODS-S at one millimeter (ASAGAO): Millimeter properties of stellar mass selected galaxies*, [PASJ, 72, 69, 2020](#)
- 29 **Kojima, T., Ouchi, M., Rauch, M., et al.**, *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 $M_{\star} < 10^6 M_{\odot}$ and $0.016 Z_{\odot}$* , [ApJ, 898, 142, 2020](#)
- 28 **Silverman, J. D., Tang, S., Lee, K.-G., et al.**, *Dual Supermassive Black Holes at Close Separation Revealed by the Hyper Suprime-Cam Subaru Strategic Program*, [ApJ, 899, 154, 2020](#)
- 27 **Romano, M., Cassata, P., Morselli, L., et al.**, *The ALPINE-ALMA [C II] Survey: on the nature of an extremely obscured serendipitous galaxy*, [MNRAS, 496, 875-887, 13, 2020](#)
- 26 **Pizzati, E., Ferrara, A., Pallottini, A., et al.**, *Outflows and extended [C II] haloes in high-redshift galaxies*, [MNRAS, 495, 160-172, 13, 2020](#)
- 25 **Harikane, Y., Ouchi, M., Inoue, A. K., et al.**, *Large Population of ALMA Galaxies at $z > 6$ with Very High [O III] $88 \mu\text{m}$ to [C II] $158 \mu\text{m}$ Flux Ratios: Evidence of Extremely High Ionization Parameter or PDR Deficit?*, [ApJ, 896, 93, 19, 2020](#)

- 24 **Mukae, S., Ouchi, M., Cai, Z., et al.**, *Three-dimensional Distribution Map of H I Gas and Galaxies around an Enormous Ly α Nebula and Three QSOs at $z = 2.3$ Revealed by the H I Tomographic Mapping Technique*, [ApJ, 896, 45, 11, 2020](#)
- 23 **Faisst, A. L., Schaerer, D., Lemaux, B. C., et al.**, *The ALPINE-ALMA [C II] Survey: Multiwavelength Ancillary Data and Basic Physical Measurements*, [ApJS, 247, 61, 37, 2020](#)
- 22 **Mawatari, K., Inoue, A. K., Hashimoto, T., et al.**, *Balmer Break Galaxy Candidates at $z \sim 6$: A Potential View on the Star Formation Activity at $z \gtrsim 14$* , [ApJ, 889, 137, 20, 2020](#)
- 21 **Ginolfi, M., Jones, G. C., Béthermin, M., et al.**, *The ALPINE-ALMA [C II] survey: Star-formation-driven outflows and circumgalactic enrichment in the early Universe*, [A&A, 633, A90, 14, 2020](#)
- 20 **Izumi, T., Onoue, M., Matsuoka, Y., et al.**, *Subaru High- z Exploration of Low-Luminosity Quasars (SHELLQs). VIII. A less biased view of the early co-evolution of black holes and host galaxies*, [PASJ, 71, 111, 2019](#)
- 19 **Harikane, Y., Ouchi, M., Ono, Y., et al.**, *SILVERRUSH. VIII. Spectroscopic Identifications of Early Large-scale Structures with Protoclusters over 200 Mpc at $z \sim 6 - 7$: Strong Associations of Dusty Star-forming Galaxies*, [ApJ, 883, 142, 16, 2019](#)
- 18 **Yuma, S., Ouchi, M., Fujimoto, S., et al.**, *A Giant Green Pea Identified in the Spectroscopy of Spatially Extended [O III] Sources*, [ApJ, 882, 17, 16, 2019](#)
- 17 **Hayatsu, N. H., Ivison, R. J., Andreani, P., et al.**, *ADF22: Blind Detections of [C II] Line Emitters Shown to be Spurious*, [Research Notes of the American Astronomical Society, 3, 97, 2019](#)
- 16 **Higuchi, R., Ouchi, M., Ono, Y., et al.**, *SILVERRUSH. VII. Subaru/HSC Identifications of Protocluster Candidates at $z \sim 6 - 7$: Implications for Cosmic Reionization*, [ApJ, 879, 28, 15, 2019](#)
- 15 **Yamaguchi, Y., Kohno, K., Hatsukade, B., et al.**, *ALMA 26 arcmin² Survey of GOODS-S at 1 mm (ASAGAO): Near-infrared-dark Faint ALMA Sources*, [ApJ, 878, 73, 8, 2019](#)
- 14 **Ginolfi, M., Schneider, R., Valiante, R., et al.**, *The infrared-luminous progenitors of high- z quasars*, [MNRAS, 483, 1256-1264, 9, 2019](#)
- 13 **Hatsukade, B., Kohno, K., Yamaguchi, Y., et al.**, *ALMA twenty-six arcmin² survey of GOODS-S at one millimeter (ASAGAO): Source catalog and number counts*, [PASJ, 70, 105, 2018](#)
- 12 **Itoh, R., Ouchi, M., Zhang, H., et al.**, *CHORUS. II. Subaru/HSC Determination of the Ly α Luminosity Function at $z = 7.0$: Constraints on Cosmic Reionization Model Parameter*, [ApJ, 867, 46, 13, 2018](#)
- 11 **Izumi, T., Onoue, M., Shirakata, H., et al.**, *Subaru High- z Exploration of Low-Luminosity Quasars (SHELLQs). III. Star formation properties of the host galaxies at $z \gtrsim 6$ studied with ALMA*, [PASJ, 70, 36, 2018](#)

- 10 **Harikane, Y., Ouchi, M., Shibuya, T., et al.**, *SILVERRUSH. V. Census of Ly α , [O III] 5007, H α , and [C II] 158 μ m Line Emission with 1000 LAEs at $z = 4.9$ -7.0 Revealed with Subaru/HSC*, [ApJ](#), **859**, 84, 21, 2018
- 9 **Gómez-Guijarro, C., Toft, S., Karim, A., et al.**, *Starburst to Quiescent from HST/ALMA: Stars and Dust Unveil Minor Mergers in Submillimeter Galaxies at $z \sim 4.5$* , [ApJ](#), **856**, 121, 18, 2018
- 8 **Ueda, Y., Hatsukade, B., Kohno, K., et al.**, *ALMA 26 arcmin² Survey of GOODS-S at One-millimeter (ASAGAO): X-Ray AGN Properties of Millimeter-selected Galaxies*, [ApJ](#), **853**, 24, 11, 2018
- 7 **Aihara, H., Arimoto, N., Armstrong, R., et al.**, *The Hyper Suprime-Cam SSP Survey: Overview and survey design*, [PASJ](#), **70**, S4, 2018
- 6 **Aihara, H., Armstrong, R., Bickerton, S., et al.**, *First data release of the Hyper Suprime-Cam Subaru Strategic Program*, [PASJ](#), **70**, S8, 2018
- 5 **Ferrara, A., Hirashita, H., Ouchi, M., et al.**, *The infrared-dark dust content of high redshift galaxies*, [MNRAS](#), **471**, 5018-5024, 7, 2017
- 4 **Roberts-Borsani, G. W., Jiménez-Donaire, M. J., Daprà, M., et al.**, *Multiwavelength Characterization of an ACT-selected, Lensed Dusty Star-forming Galaxy at $z = 2.64$* , [ApJ](#), **844**, 110, 9, 2017
- 3 **Yuma, S., Ouchi, M., Drake, A. B., et al.**, *Systematic Survey for [O II], [O III], and H α Blobs at $z = 0.1$ -1.5: The Implication for Evolution of Galactic-scale Outflow*, [ApJ](#), **841**, 93, 17, 2017
- 2 **Hayatsu, N. H., Matsuda, Y., Umehata, H., et al.**, *ALMA deep field in SSA22: Blindly detected CO emitters and [C II] emitter candidates*, [PASJ](#), **69**, 45, 2017
- 1 **Umehata, H., Tamura, Y., Kohno, K., et al.**, *ALMA Deep Field in SSA22: Source Catalog and Number Counts*, [ApJ](#), **835**, 98, 15, 2017