Jianwei Lyu / 吕建伟

ORCID: 0000-0002-6221-1829

School of Astronomy and Space Science
Nanjing University, 163 Xianlin Avenue
Nanjing, Jiangsu 210000, China

E-mail: jianwei@nju.edu.cn
WWW: `https://jlastro.github.io`

Observational astrophysicist specializing in infrared astronomy, active galactic nuclei (AGN), and galaxy evolution. Leads JWST programs investigating obscured black hole growth, distant galaxies, and the dust and interstellar medium of galaxies. Research combines multiwavelength surveys, spectroscopy, and time-domain observations to investigate black hole growth, the physics of the interstellar medium, and galaxy evolution across cosmic time. Lead author of 13 refereed papers and contributor to 80+ publications, with 8,500+ citations (720+ to first-author papers) and an h-index of 48.

EMPLOYMENT

Nanjing University, Nanjing, Jiangsu China **2026-now**

Associate Professor

University of Arizona, Tucson, Arizona USA **2023-2026**

Assistant Research Professor

University of Arizona, Tucson, Arizona USA **2020-2023**

Postdoctoral Research Associate

EDUCATION

University of Arizona, Tucson, Arizona USA **2014-2020**

Ph.D., Astronomy & Astrophysics, February 2020

- Dissertation Topic: "Demystifying the IR Emission of Type-1 AGNs from $z \sim 0$ to $z \sim 6$"
- Advisor: George H. Rieke

Shanghai Astronomical Observatory, Chinese Academy of Sciences, Shanghai, China **2011-2014**

M.S., Astronomy, June, 2014

University of Science and Technology of China, Hefei, China **2007-2011**

B.A., Astronomy, June, 2011

RESEARCH INTERESTS

- AGN Structure and Emission Physics
- Obscured AGN and Black Hole-Galaxy Co-evolution
- Interstellar Dust and PAH Emission
- Infrared Astronomy and Observational Techniques
- Time-Domain Astronomy
- Multi-wavelength Astronomical Surveys

CONFERENCES ORAL PRESENTATIONS & SEMINARS (SELECTED)

- The 16th meeting on Cosmic Dust, Niihama, Ehime, Japan (invited) (Sep 2026)
- EREBUS Meeting 2026, Ann Arbor, MI (Aug 2026)
- Massive Black Holes across Cosmic Time, Cambridge, UK (Sep 2025)
- EREBUS/COSMOS-3D Meeting 2025, Bologna, Italy (Jun 2025)
- MIRI team meeting, Biosphere, Tucson, AZ (invited) (Sep 2024)
- KIAA-DoA Seminar, Peking University, Beijing, China (invited) (Mar 2024)

- Lunch Talk at SWIFAR/YNU, Kunming, China (invited) (Feb 2024)
- EREBUS Collaboration Meeting, Tucson, AZ (Oct 2023)
- The First Year of JWST Science Conference, STScI, Balitmore, MD (Sep 2023)
- Astronomy Colloquium, Shanghai Jiao Tong University, Shanghai, China (invited) (Mar 2023)
- USTC Astronomy Colloquium, USTC, China (invited) (Mar 2023)
- Invited Talk at Institute of High Energy Physics, China (virtual) (Feb 2022)
- Supermassive Black Hole Studies with the Legacy Survey of Space and Time: 2021 (virtual) (Jul 2021)
- Lunch Talk at IPMU, Tokyo, Japan (virtual) (May 2021)
- Extragalactic group meeting, Cambridge, UK (virtual) (Apr 2021)
- Prof. Hoenig's group meeting, Southampton, UK (virtual) (Apr 2021)
- 235th AAS meeting, Honolulu, USA (Jan 2020)
- Cosmic Evolution of Quasars: from the First Light to Local Relics, Peking University, China (Oct 2019)
- NOAO FLASH talk, Tucson, AZ, USA (Oct 2019)
- Dusting the Universe workshop, Tucson, AZ, USA (Mar 2019)
- Colloquium, Shanghai Astronomical Observatory, China (Jan 2019)
- 233rd AAS meeting, Seattle, USA (Jan 2019)
- TORUS2018: the many faces of the AGN obscuration, Puerto Varas, Chile (Dec 2018)
- KIAA lunch talk, Peking University, China (Jul 2018)
- NOAO FLASH talk, Tucson, AZ, USA (May 2018)
- AGN: what's in a name, Garching ESO, Germany (Jun 2016)
- NOAO FLASH talk, Tucson, AZ, USA (May 2016)

PROPOSALS AND FUNDING

- PI: JWST GTO 2773 (6 hrs; MIRI/MRS)
- co-PI: JWST GTO 4549 (20 hrs; MIRI/imager, NIRCam/WFSS), GO 5893 (265 hrs; COSMOS-3D; MIRI/imager, NIRCam/WFSS, $1,412,709)
- co-I: JWST GO 2677 (11 hrs; NIRSpec/MSA; 2-person proposal, pending $46, 424/177, 278), 2075 (13 hrs; MIRI/MRS; 7-person proposal, pending $30, 000), 2249, 1967, 1764, 3215, 3428, 3432, 3577, 3859, 3960, 5015, 5645
- co-I: JWST GTO 1204, 1205, 1207, 2774, 4540
- PI: MMT/IFU, 2024a
- PI: Bok/VATT Telescope (optical spectrograph), 2020a
- PI: Magellen Telescope(Baade)/IMACS-IFU, 2019a
- PI: Kuiper 61-inch/SPOL, 2017a
- Col-I (PI: Feng Gao): SMT/1.3mm(ALMA), Spring 2016

HONORS AND AWARDS

- GPSC Travel Grant (December 2019)
- The 2019 AAS Doxsey Travel Prize (December 2018)
- Annual Scholarship of National Astronomical Observatories, CAS (December 2010)
- The Second Prize Scholarship, USTC (November 2010)
- The Third Prize Scholarship, USTC (November 2009)

TEACHING EXPERIENCE

Guest Lecturer **2025**

Lectures on JWST AGN sciences and MIRI data reduction; student labs, in-class discussions

- JWST Summer School, Westlake University, Hangzhou, China

Teaching Assistant **2017 - 2018**

Some lectures; leading the in-class discussions, student labs; shared responsibility for exams, homework assignments, and grades.

- ASTR170B1 The Physical Universe (by Dr. Brenda Frye), Spring 2018.
- ASTR170B1 The Physical Universe (by Dr. Christopher Walker), Spring 2017.

TECHNICAL SKILLS

- Data analysis: *JWST*, *Spitzer*, *WISE*, SDSS, Magellan/IMACS-IFU, some knowledge of *Herschel*, ALMA; general knowledge of photometric and spectroscopic data reductions; experienced in SED fittings and spectral decompositions; some experience of radiation transfer modeling and time series data analysis
- Languages: IDL, Python, C/C++, some use of Unix shell scripts, FORTRAN;
- Applications: LaTeX, SMART, SKIRT, P3D. some use of SEXtractor, IRAF, Supermongo;
- Operating Systems: Unix/Linux, Windows.

Service, Outreach and Other Activities

- Referee for Astrophysical Journal (ApJ), Monthly Notices of the Royal Astronomical Society (MNRAS), Astronomy & Astrophysics (A&A), Nature, Publications of Astronomical Society of Australia (PASA), Planetary and Space Science, Galaxies, Universe
- TAC member for JWST Cycle 5 (2026)
- Subject-matter expert reviewer in a NASA peer review (2023)
- NASA-designated subject matter expert of the official James Webb Space Telescope Community Event (2021–now)
- Invited Talk in Public Evening Lecture Series, Steward Observatory, Tucson, AZ (2025)
- Poster Judge in APS Conference for Undergraduate Women in Physics (CUWiP), Oracle, AZ (2024)
- Member of International Scholar Task Force, Steward Observatory, Tucson, AZ (2021–2022)
- Member of Graduate Admission Committee, Steward Observatory, Tucson, AZ (2022, 2024, 2025)
- Public Talk: Mysteries and Marvels of Supermassive Black Holes, Coffee at the Cosmos, Virtual (2022 JWST Community Event)
- Podcast Guest Speaker: The Influence of James Webb Space Telescope and Starlink on Astronomy, (2022 *Silicon Valley 101, S2E64*, in Mandarin)
- Public Talk: Why We Need James Webb Space Telescope in Space?, The Middle School Attached To Qinghai Normal University, Virtual (2021)
- Local Organizing Committe member of the conference "Dusting the Universe", Tucson, AZ (2018)
- Senita Valley Elementary School Family Science Night, Tucson, AZ (Jan, 2015)
- Volunteer of the Dissecting Galaxies with 2D Wide-field Spectroscopy conference, Lijiang, China (March, 2013)
- Host of USTC Students' Journal Club, USTC, Hefei, China (2011)
- Tour guide of USTC Observatory Open Day, USTC, Hefei, China (2007-2011)
- Local organizer of the IYA2009 "100 Hours of Astronomy" activity, Hefei, China (2009)

Publication List

ADS Bibliography: `https://ui.adsabs.harvard.edu/#/public-libraries/jbbTsn0iQhuruu2S8X9e3Q`

13 first-authored, 80+ contributed; total citations: 8500+ (720+ for first-authored papers); h-index: 48 (updated: 2026/10)

(also see Google Scholar: `https://scholar.google.com/citations?user=OHejMfOAAAAJ&hl=en`)

Lead Author:

1. "Unveiling the Aromatic and Aliphatic Universe at Redshifts $z \sim$0.2–0.5 with JWST/NIRCam" **Lyu, Jianwei**; Yang, Xuejuan; Li, Aigen; Sun, Fengwu; Rieke, George H.; Alberts Stacey; Shivaei, Irene (2025), *ApJ* [link].
2. "Fading Light, Fierce Winds: JWST Snapshot of a Sub-Eddington Quasar at Cosmic Dawn" **Lyu, Jianwei**; Rieke, George H.; Stone, Meredith; Morrison, Jane; Alberts, Stacey; Jin, Xiangyu; Zhu, Yongda; Liu, Weizhe; Yang, Jinyi (2025), *ApJ* [link].
3. "Active Galactic Nuclei Selection and Demographics: A New Age with JWST/MIRI" **Lyu, Jianwei**; Alberts, Stacey; Rieke, George H.; Shivaei, Irene; Pérez-González, Pablo G.; Sun, Fengwu; Hainline, Kevin N.; Baum, Stefi; Bonaventura, Nina; Bunker, Andrew J.; Egami, Eiichi; Eisenstein, Daniel J.; Florian, Michael; Ji, Zhiyuan; Johnson, Benjamin D.; Morrison, Jane; Rieke, Marcia; Robertson, Brant; Rujopakarn, Wiphu; Tacchella, Sandro; Scholtz, Jan; Willmer, Christopher N. A. (2024), *ApJ* [link].

4. "AGN Selection and Demographics in GOODS-S/HUDF from X-Ray to Radio" **Lyu, Jianwei**; Alberts, Stacey; Rieke, George H.; Rujopakarn, Wiphu (2022), *ApJ* [link].
5. "Polar Dust Emission in Quasar IR SEDs and Its Correlation with Narrow-line Regions" **Lyu, Jianwei**; Rieke, George H. (2022), *ApJ* [link].
6. "Infrared Spectral Energy Distribution and Variability of Active Galactic Nuclei: Clues to the Structure of Circumnuclear Material" **Lyu, Jianwei**; Rieke, George (2022), *Universe* [link].
7. "The Dusty Heart of NGC 4151 Revealed by $\lambda \sim$1–40 μm Reverberation Mapping and Variability: A Challenge to Current Clumpy Torus Models" **Lyu, Jianwei**; Rieke, George H. (2021), *ApJ* [link].
8. "Mid-IR Variability and Dust Reverberation Mapping of Low-z Quasars. I. Data, Methods, and Basic Results" **Lyu, Jianwei**; Rieke, George H.; Smith, Paul S. (2019), *ApJ* [link].
9. "Polar Dust, Nuclear Obscuration, and IR SED Diversity in Type-1 AGNs" **Lyu, Jianwei**; Rieke, George H. (2018), *ApJ* [link].
10. "The Intrinsic Far-infrared Continua of Type-1 Quasars" **Lyu, Jianwei**; Rieke, George H. (2017), *ApJ* [link].
11. "Dust-deficient Palomar-Green Quasars and the Diversity of AGN Intrinsic IR Emission" **Lyu, Jianwei**; Rieke, G. H.; Shi, Yong (2017), *ApJ* [link].
12. "The Contribution of Host Galaxies to the Infrared Energy Output of z $\gtrsim$5.0 Quasars" **Lyu, Jianwei**; Rieke, G. H.; Alberts, Stacey (2016), *ApJ* [link].
13. "Dust in Active Galactic Nuclei: Anomalous Silicate to Optical Extinction Ratios?" **Lyu, Jianwei**; Hao, Lei; Li, Aigen (2014), *ApJ* [link].

Major Contribution († indicates mentored students):

1. "No Evidence for a Significant Evolution of M. Relation in Massive Galaxies up to z $\sim$4" Sun, Yang†; **Lyu, Jianwei**; Rieke, George H.; Ji, Zhiyuan; Sun, Fengwu; Zhu, Yongda; Bunker, Andrew J.; Cargile, Phillip A.; Circosta, Chiara; D'Eugenio, Francesco; Egami, Eiichi; Hainline, Kevin; Helton, Jakob M.; Rinaldi, Pierluigi; Robertson, Brant E.; Scholtz, Jan; Shivaei, Irene; Stone, Meredith A.; Tacchella, Sandro; Williams, Christina C.; Willmer, Christopher N. A.; Willott, Chris (2025), *ApJ* [link].
2. "The Relation between AGN and Host-galaxy Properties in the JWST Era. I. Seyferts at Cosmic Noon are Obscured and Disturbed" Bonaventura, Nina; **Lyu, Jianwei**; Rieke, George H.; Alberts, Stacey; Willmer, Christopher N. A.; Pérez-González, Pablo G.; Bunker, Andrew J.; Stone, Meredith; D'Eugenio, Francesco; Williams, Christina C.; Maseda, Michael V.; Willott, Chris J.; Ji, Zhiyuan; Baker, William M.; Carniani, Stefano; Charlot, Stephane; Chevallard, Jacopo; Curtis-Lake, Emma; Eisenstein, Daniel J.; Hainline, Kevin; Hausen, Ryan; Nelson, Erica J.; Rieke, Marcia J.; Robertson, Brant; Shivaei, Irene (2025), *ApJ* [link].
3. "SMILES Initial Data Release: Unveiling the Obscured Universe with MIRI Multiband Imaging" Alberts, Stacey; **Lyu, Jianwei**; Shivaei, Irene; Rieke, George H.; Pérez-González, Pablo G.; Bonaventura, Nina; Zhu, Yongda; Helton, Jakob M.; Ji, Zhiyuan; Morrison, Jane; Robertson, Brant E.; Stone, Meredith A.; Sun, Yang; Williams, Christina C.; Willmer, Christopher N. A. (2024), *ApJ* [link].
4. "SMILES: A Prototype JWST Multiband Mid-infrared Survey" Rieke, G. H.; Alberts, Stacey; Shivaei, Irene; **Lyu, Jianwei**; Willmer, Christopher N. A.; Pérez-González, Pablo; Williams, Christina C. (2024), *ApJ* [link].
5. "SMILES: Discovery of Higher Ionizing Photon Production Efficiency in Overdense Regions" Zhu, Yongda; Alberts, Stacey; **Lyu, Jianwei**; Morrison, Jane; Rieke, George H.; Sun, Yang; Helton, Jakob M.; Ji, Zhiyuan; Bhatawdekar, Rachana; Bonaventura, Nina; Bunker, Andrew J.; Lin, Xiaojing; Rieke, Marcia J.; Rinaldi, Pierluigi; Shivaei, Irene; Willmer, Christopher N. A.; Zhang, Junyu (2024), *arXiv e-prints* [link].

6. "Extended hot dust emission around the earliest massive quiescent galaxy" Ji, Zhiyuan; Williams, Christina C.; Rieke, George H.; **Lyu, Jianwei**; Alberts, Stacey; Sun, Fengwu; Helton, Jakob M.; Rieke, Marcia; Shivaei, Irene; D'Eugenio, Francesco; Tacchella, Sandro; Robertson, Brant; Zhu, Yongda; Maiolino, Roberto; Bunker, Andrew J.; Sun, Yang; Willmer, Christopher N. A. (2024), *arXiv e-prints* [link].
7. "No evidence for a significant evolution of $M_\bullet$-M_* relation in massive galaxies up to z$\sim$4" Sun, Yang†; **Lyu, Jianwei**; Rieke, George H.; Ji, Zhiyuan; Sun, Fengwu; Zhu, Yongda; Bunker, Andrew J.; Cargile, Phillip A.; Circosta, Chiara; D'Eugenio, Francesco; Egami, Eiichi; Hainline, Kevin; Helton, Jakob M.; Rinaldi, Pierluigi; Robertson, Brant E.; Scholtz, Jan; Shivaei, Irene; Stone, Meredith A.; Tacchella, Sandro; Williams, Christina C.; Willmer, Christopher N. A.; Willott, Chris (2024), *arXiv e-prints* [link].
8. "What Is the Nature of Little Red Dots and what Is Not, MIRI SMILES Edition" Pérez-González, Pablo G.; Barro, Guillermo; Rieke, George H.; **Lyu, Jianwei**; Rieke, Marcia; Alberts, Stacey; Williams, Christina C.; Hainline, Kevin; Sun, Fengwu; Puskás, Dávid; Annunziatella, Marianna; Baker, William M.; Bunker, Andrew J.; Egami, Eiichi; Ji, Zhiyuan; Johnson, Benjamin D.; Robertson, Brant; Rodr´Del Pino, Bruno; Rujopakarn, Wiphu; Shivaei, Irene; Tacchella, Sandro; Willmer, Christopher N. A.; Willott, Chris (2024), *ApJ* [link].
9. "Undermassive Host Galaxies of Five z $\sim$6 Luminous Quasars Detected with JWST" Stone, Meredith A.†; **Lyu, Jianwei**; Rieke, George H.; Alberts, Stacey; Hainline, Kevin N. (2024), *ApJ* [link].
10. "Detection of the Low-stellar-mass Host Galaxy of a z$\sim$6.25 Quasar with JWST" Stone, Meredith A.†; **Lyu, Jianwei**; Rieke, George H.; Alberts, Stacey (2023), *ApJ* [link].
11. "ALMA confirmation of an obscured hyperluminous radio-loud AGN at z = 6.853 associated with a dusty starburst in the 1.5 deg^2 COSMOS field" Endsley, Ryan; Stark, Daniel P.; **Lyu, Jianwei**; Wang, Feige; Yang, Jinyi; Fan, Xiaohui; Smit, Renske; Bouwens, Rychard; Hainline, Kevin; Schouws, Sander (2023), *MNRAS* [link].

Other Papers (incomplete):

1. "JWST NIRCam simulations and observations of AGN ionization cones in cosmic noon galaxies" Lebowitz, Sophie; Hainline, Kevin; Juneau, Stéphanie; **Lyu, Jianwei**; Williams, Christina; Alberts, Stacey; Fan, Xiaohui; Rieke, Marcia (2025), *arXiv e-prints* [link].
2. "Not Just a Dot: the complex UV morphology and underlying properties of Little Red Dots" Rinaldi, P.; Bonaventura, N.; Rieke, G. H.; Alberts, S.; Caputi, K. I.; Baker, W. M.; Baum, S.; Bhatawdekar, R.; Bunker, A. J.; Carniani, S.; Curtis-Lake, E.; D'Eugenio, F.; Egami, E.; Ji, Z.; Hainline, K.; Helton, J. M.; Lin, X.; **Lyu, J.**; Johnson, B. D.; Ma, Z.; Maiolino, R.; Pérez-González, P. G.; Rieke, M.; Robertson, B. E.; Shivaei, I.; Stone, M.; Sun, Y.; Tacchella, S.; Übler, H.; Williams, C. C.; Willmer, C. N. A.; Willott, C.; Zhang, J.; Zhu, Y. (2024), *arXiv e-prints* [link].
3. "To High Redshift and Low Mass: Exploring the Emergence of Quenched Galaxies and Their Environments at $3 < z < 6$ in the Ultra-deep JADES MIRI F770W Parallel" Alberts, Stacey; Williams, Christina C.; Helton, Jakob M.; Suess, Katherine A.; Ji, Zhiyuan; Shivaei, Irene; **Lyu, Jianwei**; Rieke, George; Baker, William M.; Bonaventura, Nina; Bunker, Andrew J.; Carniani, Stefano; Charlot, Stephane; Curtis-Lake, Emma; D'Eugenio, Francesco; Eisenstein, Daniel J.; de Graaff, Anna; Hainline, Kevin N.; Hausen, Ryan; Johnson, Benjamin D.; Maiolino, Roberto; Parlanti, Eleonora; Rieke, Marcia J.; Robertson, Brant E.; Sun, Yang; Tacchella, Sandro; Willmer, Christopher N. A.; Willott, Chris J. (2024), *ApJ* [link].
4. "JADES: The diverse population of infant black holes at $4 < z < 11$: Merging, tiny, poor, but mighty" Maiolino, Roberto; Scholtz, Jan; Curtis-Lake, Emma; Carniani, Stefano; Baker, William; de Graaff, Anna; Tacchella, Sandro; Übler, Hannah; D'Eugenio, Francesco; Witstok, Joris; Curti, Mirko; Arribas, Santiago; Bunker, Andrew J.; Charlot, Stéphane; Chevallard, Jacopo; Eisenstein, Daniel J.; Egami, Eiichi; Ji, Zhiyuan; Jones, Gareth C.; **Lyu, Jianwei**; Rawle, Tim; Robertson, Brant; Rujopakarn, Wiphu; Perna, Michele; Sun, Fengwu; Venturi, Giacomo; Williams, Christina C.; Willott, Chris (2024), *A&A* [link].

5. "The abundance and nature of high-redshift quiescent galaxies from JADES spectroscopy and the FLAMINGO simulations" Baker, William M.; Lim, Seunghwan; D'Eugenio, Francesco; Maiolino, Roberto; Ji, Zhiyuan; Arribas, Santiago; Bunker, Andrew J.; Carniani, Stefano; Charlot, Stephane; de Graaff, Anna; Hainline, Kevin; Looser, Tobias J.; **Lyu, Jianwei**; Rinaldi, Pierluigi; Robertson, Brant; Schaller, Matthieu; Schaye, Joop; Scholtz, Jan; Ubler, Hannah; Williams, Christina C.; Willmer, Christopher N. A.; Willott, Chris; Zhu, Yongda (2024), *arXiv e-prints* [link].
6. "JADES + JEMS: A Detailed Look at the Buildup of Central Stellar Cores and Suppression of Star Formation in Galaxies at Redshifts $3 < z < 4.5$" Ji, Zhiyuan; Williams, Christina C.; Tacchella, Sandro; Suess, Katherine A.; Baker, William M.; Alberts, Stacey; Bunker, Andrew J.; Johnson, Benjamin D.; Robertson, Brant; Sun, Fengwu; Eisenstein, Daniel J.; Rieke, Marcia; Maseda, Michael V.; Hainline, Kevin; Hausen, Ryan; Rieke, George; Willmer, Christopher N. A.; Egami, Eiichi; Shivaei, Irene; Carniani, Stefano; Charlot, Stephane; Chevallard, Jacopo; Curtis-Lake, Emma; Looser, Tobias J.; Maiolino, Roberto; Willott, Chris; Chen, Zuyi; Helton, Jakob M.; **Lyu, Jianwei**; Nelson, Erica; Bhatawdekar, Rachana; Boyett, Kristan; Sandles, Lester (2024), *ApJ* [link].
7. "A new census of dust and polycyclic aromatic hydrocarbons at z = 0.7–2 with JWST MIRI" Shivaei, Irene; Alberts, Stacey; Florian, Michael; Rieke, George; Wuyts, Stijn; Bodansky, Sarah; Bunker, Andrew J.; Cameron, Alex J.; Curti, Mirko; D'Eugenio, Francesco; Dudzevičūtė, Ugnė; Ji, Zhiyuan; Johnson, Benjamin D.; Kramarenko, Ivan; **Lyu, Jianwei**; Matthee, Jorryt; Morrison, Jane; Naidu, Rohan; Pérez-González, Pablo G.; Reddy, Naveen; Robertson, Brant; Sun, Yang; Tacchella, Sandro; Whitaker, Katherine; Williams, Christina C.; Willmer, Christopher N. A.; Witstok, Joris; Xiao, Mengyuan; Zhu, Yongda (2024), *A&A* [link].
8. "An Investigation Into The Selection and Colors of Little Red Dots and Active Galactic Nuclei" Hainline, Kevin N.; Maiolino, Roberto; Juodzbalis, Ignas; Scholtz, Jan; Ubler, Hannah; D'Eugenio, Francesco; Helton, Jakob M.; Sun, Yang; Sun, Fengwu; Robertson, Brant; Tacchella, Sandro; Bunker, Andrew J.; Carniani, Stefano; Charlot, Stephane; Curtis-Lake, Emma; Egami, Eiichi; Johnson, Benjamin D.; Lin, Xiaojing; **Lyu, Jianwei**; Perez-Gonzalez, Pablo G.; Rinaldi, Pierluigi; Silcock, Maddie S.; Venturi, Giacomo; Williams, Christina C.; Willmer, Christopher N. A.; Willott, Chris; Zhang, Junyu; Zhu, Yongda (2024), *arXiv e-prints* [link].
9. "A Systematic Search for Galaxies with Extended Emission Line and Potential Outflows in JADES Medium-Band Images" Zhu, Yongda; Rieke, Marcia J.; Ji, Zhiyuan; Simmonds, Charlotte; Sun, Fengwu; Sun, Yang; Alberts, Stacey; Bhatawdekar, Rachana; Bunker, Andrew J.; Cargile, Phillip A.; Carniani, Stefano; de Graaff, Anna; Hainline, Kevin; Helton, Jakob M.; Jones, Gareth C.; **Lyu, Jianwei**; Rieke, George H.; Rinaldi, Pierluigi; Robertson, Brant; Scholtz, Jan; Übler, Hannah; Williams, Christina C.; Willmer, Christopher N. A. (2024), *arXiv e-prints* [link].
10. "A Post-Starburst Pathway to Forming Massive Galaxies and Their Black Holes at z>6" Onoue, Masafusa; Ding, Xuheng; Silverman, John D.; Matsuoka, Yoshiki; Izumi, Takuma; Strauss, Michael A.; Ward, Charlotte; Phillips, Camryn L.; Andika, Irham T.; Aoki, Kentaro; Arita, Junya; Baba, Shunsuke; Bieri, Rebekka; Bosman, Sarah E. I.; Eilers, Anna-Christina; Fujimoto, Seiji; Habouzit, Melanie; Haiman, Zoltan; Imanishi, Masatoshi; Inayoshi, Kohei; Ito, Kei; Iwasawa, Kazushi; Jahnke, Knud; Kashikawa, Nobunari; Kawaguchi, Toshihiro; Kohno, Kotaro; Lee, Chien-Hsiu; Li, Junyao; Lupi, Alessandro; **Lyu, Jianwei**; Nagao, Tohru; Overzier, Roderik; Schindler, Jan-Torge; Schramm, Malte; Scoggins, Matthew T.; Shimasaku, Kazuhiro; Toba, Yoshiki; Trakhtenbrot, Benny; Trebitsch, Maxime; Treu, Tommaso; Umehata, Hideki; Venemans, Bram; Vestergaard, Marianne; Volonteri, Marta; Walter, Fabian; Wang, Feige; Yang, Jinyi; Zhang, Haowen (2024), *arXiv e-prints* [link].
11. "5–25 μm Galaxy Number Counts from Deep JWST Data" Stone, Meredith A.; Alberts, Stacey; Rieke, George H.; Bunker, Andrew J.; **Lyu, Jianwei**; Pérez-González, Pablo G.; Shivaei, Irene; Zhu, Yongda (2024), *ApJ* [link].
12. "The JADES Transient Survey: Discovery and Classification of Supernovae in the JADES Deep Field" DeCoursey, Christa; Egami, Eiichi; Pierel, Justin D. R.; Sun, Fengwu; Rest, Armin; Coulter, David A.; Engesser, Michael; Siebert, Matthew R.; Hainline, Kevin N.; Johnson, Benjamin D.; Bunker, Andrew J.; Cargile, Phillip A.; Charlot, Stephane; Chen, Wenlei; Curti, Mirko; DeFour-Remy, Shea; Eisenstein, Daniel J.; Fox, Ori D.; Gezari, Suvi; Gomez, Sebastian; Jencson, Jacob; Joshi, Bhavin A.; Khairnar,

Sanvi; **Lyu, Jianwei**; Maiolino, Roberto; Moriya, Takashi J.; Quimby, Robert M.; Rieke, George H.; Rieke, Marcia J.; Robertson, Brant; Shahbandeh, Melissa; Strolger, Louis-Gregory; Tacchella, Sandro; Wang, Qinan; Williams, Christina C.; Willmer, Christopher N. A.; Willott, Chris; Zenati, Yossef (2024), *arXiv e-prints* [link].

13. "Lyαemission in galaxies at z 5-6: new insight from JWST into the statistical distributions of Lyαproperties at the end of reionization" Tang, Mengtao; Stark, Daniel P.; Ellis, Richard S.; Sun, Fengwu; Topping, Michael; Robertson, Brant; Tacchella, Sandro; Arribas, Santiago; Baker, William M.; Bhatawdekar, Rachana; Boyett, Kristan; Bunker, Andrew J.; Charlot, Stéphane; Chen, Zuyi; Chevallard, Jacopo; Jones, Gareth C.; Kumari, Nimisha; **Lyu, Jianwei**; Maiolino, Roberto; Maseda, Michael V.; Saxena, Aayush; Whitler, Lily; Williams, Christina C.; Willott, Chris; Witstok, Joris (2024), *MNRAS* [link].

14. "The Galaxies Missed by Hubble and ALMA: The Contribution of Extremely Red Galaxies to the Cosmic Census at $3 < z < 8$" Williams, Christina C.; Alberts, Stacey; Ji, Zhiyuan; Hainline, Kevin N.; **Lyu, Jianwei**; Rieke, George; Endsley, Ryan; Suess, Katherine A.; Sun, Fengwu; Johnson, Benjamin D.; Florian, Michael; Shivaei, Irene; Rujopakarn, Wiphu; Baker, William M.; Bhatawdekar, Rachana; Boyett, Kristan; Bunker, Andrew J.; Cameron, Alex J.; Carniani, Stefano; Charlot, Stephane; Curtis-Lake, Emma; DeCoursey, Christa; de Graaff, Anna; Egami, Eiichi; Eisenstein, Daniel J.; Gibson, Justus L.; Hausen, Ryan; Helton, Jakob M.; Maiolino, Roberto; Maseda, Michael V.; Nelson, Erica J.; Pérez-González, Pablo G.; Rieke, Marcia J.; Robertson, Brant E.; Saxena, Aayush; Tacchella, Sandro; Willmer, Christopher N. A.; Willott, Chris J. (2024), *ApJ* [link].

15. "Photometric detection at 7.7 μm of a galaxy beyond redshift 14 with JWST/MIRI" Helton, Jakob M.; Rieke, George H.; Alberts, Stacey; Wu, Zihao; Eisenstein, Daniel J.; Hainline, Kevin N.; Carniani, Stefano; Ji, Zhiyuan; Baker, William M.; Bhatawdekar, Rachana; Bunker, Andrew J.; Cargile, Phillip A.; Charlot, Stéphane; Chevallard, Jacopo; D'Eugenio, Francesco; Egami, Eiichi; Johnson, Benjamin D.; Jones, Gareth C.; **Lyu, Jianwei**; Maiolino, Roberto; Pérez-González, Pablo G.; Rieke, Marcia J.; Robertson, Brant; Saxena, Aayush; Scholtz, Jan; Shivaei, Irene; Sun, Fengwu; Tacchella, Sandro; Whitler, Lily; Williams, Christina C.; Willmer, Christopher N. A.; Willott, Chris; Witstok, Joris; Zhu, Yongda (2024), *arXiv e-prints* [link].

16. "The Cosmos in Its Infancy: JADES Galaxy Candidates at $z > 8$ in GOODS-S and GOODS-N" Hainline, Kevin N.; Johnson, Benjamin D.; Robertson, Brant; Tacchella, Sandro; Helton, Jakob M.; Sun, Fengwu; Eisenstein, Daniel J.; Simmonds, Charlotte; Topping, Michael W.; Whitler, Lily; Willmer, Christopher N. A.; Rieke, Marcia; Suess, Katherine A.; Hviding, Raphael E.; Cameron, Alex J.; Alberts, Stacey; Baker, William M.; Baum, Stefi; Bhatawdekar, Rachana; Bonaventura, Nina; Boyett, Kristan; Bunker, Andrew J.; Carniani, Stefano; Charlot, Stephane; Chevallard, Jacopo; Chen, Zuyi; Curti, Mirko; Curtis-Lake, Emma; D'Eugenio, Francesco; Egami, Eiichi; Endsley, Ryan; Hausen, Ryan; Ji, Zhiyuan; Looser, Tobias J.; **Lyu, Jianwei**; Maiolino, Roberto; Nelson, Erica; Puskás, Dávid; Rawle, Tim; Sandles, Lester; Saxena, Aayush; Smit, Renske; Stark, Daniel P.; Williams, Christina C.; Willott, Chris; Witstok, Joris (2024), *ApJ* [link].

17. "Brown Dwarf Candidates in the JADES and CEERS Extragalactic Surveys" Hainline, Kevin N.; Helton, Jakob M.; Johnson, Benjamin D.; Sun, Fengwu; Topping, Michael W.; Leisenring, Jarron M.; Baker, William M.; Eisenstein, Daniel J.; Hausen, Ryan; Hviding, Raphael E.; **Lyu, Jianwei**; Robertson, Brant; Tacchella, Sandro; Williams, Christina C.; Willmer, Christopher N. A.; Roellig, Thomas L. (2024), *ApJ* [link].

18. "The JWST Advanced Deep Extragalactic Survey: Discovery of an Extreme Galaxy Overdensity at z = 5.4 with JWST/NIRCam in GOODS-S" Helton, Jakob M.; Sun, Fengwu; Woodrum, Charity; Hainline, Kevin N.; Willmer, Christopher N. A.; Rieke, George H.; Rieke, Marcia J.; Tacchella, Sandro; Robertson, Brant; Johnson, Benjamin D.; Alberts, Stacey; Eisenstein, Daniel J.; Hausen, Ryan; Bonaventura, Nina R.; Bunker, Andrew; Charlot, Stephane; Curti, Mirko; Curtis-Lake, Emma; Looser, Tobias J.; Maiolino, Roberto; Willott, Chris; Witstok, Joris; Boyett, Kristan; Chen, Zuyi; Egami, Eiichi; Endsley, Ryan; Hviding, Raphael E.; Jaffe, Daniel T.; Ji, Zhiyuan; **Lyu, Jianwei**; Sandles, Lester (2024), *ApJ* [link].

19. "JADES: Rest-frame UV-to-NIR Size Evolution of Massive Quiescent Galaxies from Redshift z=5 to z=0.5" Ji, Zhiyuan; Williams, Christina C.; Suess, Katherine A.; Tacchella, Sandro; Johnson, Ben-

jamin D.; Robertson, Brant; Alberts, Stacey; Baker, William M.; Baum, Stefi; Bhatawdekar, Rachana; Bonaventura, Nina; Boyett, Kristan; Bunker, Andrew J.; Carniani, Stefano; Charlot, Stephane; Chen, Zuyi; Chevallard, Jacopo; Curtis-Lake, Emma; D'Eugenio, Francesco; de Graaff, Anna; DeCoursey, Christa; Egami, Eiichi; Eisenstein, Daniel J.; Hainline, Kevin; Hausen, Ryan; Helton, Jakob M.; Looser, Tobias J.; **Lyu, Jianwei**; Maiolino, Roberto; Maseda, Michael V.; Nelson, Erica; Rieke, George; Rieke, Marcia; Rix, Hans-Walter; Sandles, Lester; Sun, Fengwu; Übler, Hannah; Willmer, Christopher N. A.; Willott, Chris; Witstok, Joris (2024), *arXiv e-prints* [link].

20. "JADES: Resolving the Stellar Component and Filamentary Overdense Environment of Hubble Space Telescope (HST)-dark Submillimeter Galaxy HDF850.1 at z = 5.18" Sun, Fengwu; Helton, Jakob M.; Egami, Eiichi; Hainline, Kevin N.; Rieke, George H.; Willmer, Christopher N. A.; Eisenstein, Daniel J.; Johnson, Benjamin D.; Rieke, Marcia J.; Robertson, Brant; Tacchella, Sandro; Alberts, Stacey; Baker, William M.; Bhatawdekar, Rachana; Boyett, Kristan; Bunker, Andrew J.; Charlot, Stephane; Chen, Zuyi; Chevallard, Jacopo; Curtis-Lake, Emma; Danhaive, A. Lola; DeCoursey, Christa; Ji, Zhiyuan; **Lyu, Jianwei**; Maiolino, Roberto; Rujopakarn, Wiphu; Sandles, Lester; Shivaei, Irene; Übler, Hannah; Willott, Chris; Witstok, Joris (2024), *ApJ* [link].

21. "JADES: A large population of obscured, narrow line AGN at high redshift" Scholtz, Jan; Maiolino, Roberto; D'Eugenio, Francesco; Curtis-Lake, Emma; Carniani, Stefano; Charlot, Stephane; Curti, Mirko; Silcock, Maddie S.; Arribas, Santiago; Baker, William; Bhatawdekar, Rachana; Boyett, Kristan; Bunker, Andrew J.; Chevallard, Jacopo; Circosta, Chiara; Eisenstein, Daniel J.; Hainline, Kevin; Hausen, Ryan; Ji, Xihan; Ji, Zhiyuan; Johnson, Benjamin D.; Kumari, Nimisha; Looser, Tobias J.; **Lyu, Jianwei**; Maseda, Michael V.; Parlanti, Eleonora; Perna, Michele; Rieke, Marcia; Robertson, Brant; Rodr´Del Pino, Bruno; Sun, Fengwu; Tacchella, Sandro; Übler, Hannah; Venturi, Giacomo; Williams, Christina C.; Willmer, Christopher N. A.; Willott, Chris; Witstok, Joris (2023), *arXiv e-prints* [link].

22. "JADES Initial Data Release for the Hubble Ultra Deep Field: Revealing the Faint Infrared Sky with Deep JWST NIRCam Imaging" Rieke, Marcia J.; Robertson, Brant; Tacchella, Sandro; Hainline, Kevin; Johnson, Benjamin D.; Hausen, Ryan; Ji, Zhiyuan; Willmer, Christopher N. A.; Eisenstein, Daniel J.; Puskás, Dávid; Alberts, Stacey; Arribas, Santiago; Baker, William M.; Baum, Stefi; Bhatawdekar, Rachana; Bonaventura, Nina; Boyett, Kristan; Bunker, Andrew J.; Cameron, Alex J.; Carniani, Stefano; Charlot, Stephane; Chevallard, Jacopo; Chen, Zuyi; Curti, Mirko; Curtis-Lake, Emma; Danhaive, A. Lola; DeCoursey, Christa; Dressler, Alan; Egami, Eiichi; Endsley, Ryan; Helton, Jakob M.; Hviding, Raphael E.; Kumari, Nimisha; Looser, Tobias J.; **Lyu, Jianwei**; Maiolino, Roberto; Maseda, Michael V.; Nelson, Erica J.; Rieke, George; Rix, Hans-Walter; Sandles, Lester; Saxena, Aayush; Sharpe, Katherine; Shivaei, Irene; Skarbinski, Maya; Smit, Renske; Stark, Daniel P.; Stone, Meredith; Suess, Katherine A.; Sun, Fengwu; Topping, Michael; Übler, Hannah; Villanueva, Natalia C.; Wallace, Imaan E. B.; Williams, Christina C.; Willott, Chris; Whitler, Lily; Witstok, Joris; Woodrum, Charity (2023), *ApJS* [link].

23. "The JADES Origins Field: A New JWST Deep Field in the JADES Second NIRCam Data Release" Eisenstein, Daniel J.; Johnson, Benjamin D.; Robertson, Brant; Tacchella, Sandro; Hainline, Kevin; Jakobsen, Peter; Maiolino, Roberto; Bonaventura, Nina; Bunker, Andrew J.; Cameron, Alex J.; Cargile, Phillip A.; Curtis-Lake, Emma; Hausen, Ryan; Puskás, Dávid; Rieke, Marcia; Sun, Fengwu; Willmer, Christopher N. A.; Willott, Chris; Alberts, Stacey; Arribas, Santiago; Baker, William M.; Baum, Stefi; Bhatawdekar, Rachana; Carniani, Stefano; Charlot, Stephane; Chen, Zuyi; Chevallard, Jacopo; Curti, Mirko; DeCoursey, Christa; D'Eugenio, Francesco; de Graaff, Anna; Egami, Eiichi; Helton, Jakob M.; Ji, Zhiyuan; Jones, Gareth C.; Kumari, Nimisha; Lützgendorf, Nora; Laseter, Isaac; Looser, Tobias J.; **Lyu, Jianwei**; Maseda, Michael V.; Nelson, Erica; Parlanti, Eleonora; Rauscher, Bernard J.; Rawle, Tim; Rieke, George; Rix, Hans-Walter; Rujopakarn, Wiphu; Sandles, Lester; Saxena, Aayush; Scholtz, Jan; Sharpe, Katherine; Shivaei, Irene; Simmonds, Charlotte; Smit, Renske; Topping, Michael W.; Übler, Hannah; Venturi, Giacomo; Williams, Christina C.; Witstok, Joris; Woodrum, Charity (2023), *arXiv e-prints* [link].

24. "Carbonaceous dust grains seen in the first billion years of cosmic time" Witstok, Joris; Shivaei, Irene; Smit, Renske; Maiolino, Roberto; Carniani, Stefano; Curtis-Lake, Emma; Ferruit, Pierre; Arribas, Santiago; Bunker, Andrew J.; Cameron, Alex J.; Charlot, Stephane; Chevallard, Jacopo; Curti, Mirko; de

Graaff, Anna; D'Eugenio, Francesco; Giardino, Giovanna; Looser, Tobias J.; Rawle, Tim; Rodr´del Pino, Bruno; Willott, Chris; Alberts, Stacey; Baker, William M.; Boyett, Kristan; Egami, Eiichi; Eisenstein, Daniel J.; Endsley, Ryan; Hainline, Kevin N.; Ji, Zhiyuan; Johnson, Benjamin D.; Kumari, Nimisha; **Lyu, Jianwei**; Nelson, Erica; Perna, Michele; Rieke, Marcia; Robertson, Brant E.; Sandles, Lester; Saxena, Aayush; Scholtz, Jan; Sun, Fengwu; Tacchella, Sandro; Williams, Christina C.; Willmer, Christopher N. A. (2023), *Nature* [link].

25. "Detection of stellar light from quasar host galaxies at redshifts above 6" Ding, Xuheng; Onoue, Masafusa; Silverman, John D.; Matsuoka, Yoshiki; Izumi, Takuma; Strauss, Michael A.; Jahnke, Knud; Phillips, Camryn L.; Li, Junyao; Volonteri, Marta; Haiman, Zoltan; Andika, Irham Taufik; Aoki, Kentaro; Baba, Shunsuke; Bieri, Rebekka; Bosman, Sarah E. I.; Bottrell, Connor; Eilers, Anna-Christina; Fujimoto, Seiji; Habouzit, Melanie; Imanishi, Masatoshi; Inayoshi, Kohei; Iwasawa, Kazushi; Kashikawa, Nobunari; Kawaguchi, Toshihiro; Kohno, Kotaro; Lee, Chien-Hsiu; Lupi, Alessandro; **Lyu, Jianwei**; Nagao, Tohru; Overzier, Roderik; Schindler, Jan-Torge; Schramm, Malte; Shimasaku, Kazuhiro; Toba, Yoshiki; Trakhtenbrot, Benny; Trebitsch, Maxime; Treu, Tommaso; Umehata, Hideki; Venemans, Bram P.; Vestergaard, Marianne; Walter, Fabian; Wang, Feige; Yang, Jinyi (2023), *Nature* [link].

26. "JADES NIRSpec Spectroscopy of GN-z11: Lyman-αemission and possible enhanced nitrogen abundance in a z = 10.60 luminous galaxy" Bunker, Andrew J.; Saxena, Aayush; Cameron, Alex J.; Willott, Chris J.; Curtis-Lake, Emma; Jakobsen, Peter; Carniani, Stefano; Smit, Renske; Maiolino, Roberto; Witstok, Joris; Curti, Mirko; D'Eugenio, Francesco; Jones, Gareth C.; Ferruit, Pierre; Arribas, Santiago; Charlot, Stephane; Chevallard, Jacopo; Giardino, Giovanna; de Graaff, Anna; Looser, Tobias J.; Lützgendorf, Nora; Maseda, Michael V.; Rawle, Tim; Rix, Hans-Walter; Del Pino, Bruno Rodr´; Alberts, Stacey; Egami, Eiichi; Eisenstein, Daniel J.; Endsley, Ryan; Hainline, Kevin; Hausen, Ryan; Johnson, Benjamin D.; Rieke, George; Rieke, Marcia; Robertson, Brant E.; Shivaei, Irene; Stark, Daniel P.; Sun, Fengwu; Tacchella, Sandro; Tang, Mengtao; Williams, Christina C.; Willmer, Christopher N. A.; Baker, William M.; Baum, Stefi; Bhatawdekar, Rachana; Bowler, Rebecca; Boyett, Kristan; Chen, Zuyi; Circosta, Chiara; Helton, Jakob M.; Ji, Zhiyuan; Kumari, Nimisha; **Lyu, Jianwei**; Nelson, Erica; Parlanti, Eleonora; Perna, Michele; Sandles, Lester; Scholtz, Jan; Suess, Katherine A.; Topping, Michael W.; Übler, Hannah; Wallace, Imaan E. B.; Whitler, Lily (2023), *A&A* [link].

27. "JWST NIRCam + NIRSpec: interstellar medium and stellar populations of young galaxies with rising star formation and evolving gas reservoirs" Tacchella, Sandro; Johnson, Benjamin D.; Robertson, Brant E.; Carniani, Stefano; D'Eugenio, Francesco; Kumari, Nimisha; Maiolino, Roberto; Nelson, Erica J.; Suess, Katherine A.; Übler, Hannah; Williams, Christina C.; Adebusola, Alabi; Alberts, Stacey; Arribas, Santiago; Bhatawdekar, Rachana; Bonaventura, Nina; Bowler, Rebecca A. A.; Bunker, Andrew J.; Cameron, Alex J.; Curti, Mirko; Egami, Eiichi; Eisenstein, Daniel J.; Frye, Brenda; Hainline, Kevin; Helton, Jakob M.; Ji, Zhiyuan; Looser, Tobias J.; **Lyu, Jianwei**; Perna, Michele; Rawle, Timothy; Rieke, George; Rieke, Marcia; Saxena, Aayush; Sandles, Lester; Shivaei, Irene; Simmonds, Charlotte; Sun, Fengwu; Willmer, Christopher N. A.; Willott, Chris J.; Witstok, Joris (2023), *MNRAS* [link].

28. "JADES Imaging of GN-z11: Revealing the Morphology and Environment of a Luminous Galaxy 430 Myr after the Big Bang" Tacchella, Sandro; Eisenstein, Daniel J.; Hainline, Kevin; Johnson, Benjamin D.; Baker, William M.; Helton, Jakob M.; Robertson, Brant; Suess, Katherine A.; Chen, Zuyi; Nelson, Erica; Puskás, Dávid; Sun, Fengwu; Alberts, Stacey; Egami, Eiichi; Hausen, Ryan; Rieke, George; Rieke, Marcia; Shivaei, Irene; Williams, Christina C.; Willmer, Christopher N. A.; Bunker, Andrew; Cameron, Alex J.; Carniani, Stefano; Charlot, Stephane; Curti, Mirko; Curtis-Lake, Emma; Looser, Tobias J.; Maiolino, Roberto; Maseda, Michael V.; Rawle, Tim; Rix, Hans-Walter; Smit, Renske; Übler, Hannah; Willott, Chris; Witstok, Joris; Baum, Stefi; Bhatawdekar, Rachana; Boyett, Kristan; Danhaive, A. Lola; de Graaff, Anna; Endsley, Ryan; Ji, Zhiyuan; **Lyu, Jianwei**; Sandles, Lester; Saxena, Aayush; Scholtz, Jan; Topping, Michael W.; Whitler, Lily (2023), *ApJ* [link].

29. "Overview of the JWST Advanced Deep Extragalactic Survey (JADES)" Eisenstein, Daniel J.; Willott, Chris; Alberts, Stacey; Arribas, Santiago; Bonaventura, Nina; Bunker, Andrew J.; Cameron, Alex J.;

Carniani, Stefano; Charlot, Stephane; Curtis-Lake, Emma; D'Eugenio, Francesco; Endsley, Ryan; Ferruit, Pierre; Giardino, Giovanna; Hainline, Kevin; Hausen, Ryan; Jakobsen, Peter; Johnson, Benjamin D.; Maiolino, Roberto; Rieke, Marcia; Rieke, George; Rix, Hans-Walter; Robertson, Brant; Stark, Daniel P.; Tacchella, Sandro; Williams, Christina C.; Willmer, Christopher N. A.; Baker, William M.; Baum, Stefi; Bhatawdekar, Rachana; Boyett, Kristan; Chen, Zuyi; Chevallard, Jacopo; Circosta, Chiara; Curti, Mirko; Danhaive, A. Lola; DeCoursey, Christa; de Graaff, Anna; Dressler, Alan; Egami, Eiichi; Helton, Jakob M.; Hviding, Raphael E.; Ji, Zhiyuan; Jones, Gareth C.; Kumari, Nimisha; Lützgendorf, Nora; Laseter, Isaac; Looser, Tobias J.; **Lyu, Jianwei**; Maseda, Michael V.; Nelson, Erica; Parlanti, Eleonora; Perna, Michele; Puskás, Dávid; Rawle, Tim; Rodr´Del Pino, Bruno; Sandles, Lester; Saxena, Aayush; Scholtz, Jan; Sharpe, Katherine; Shivaei, Irene; Silcock, Maddie S.; Simmonds, Charlotte; Skarbinski, Maya; Smit, Renske; Stone, Meredith; Suess, Katherine A.; Sun, Fengwu; Tang, Mengtao; Topping, Michael W.; Übler, Hannah; Villanueva, Natalia C.; Wallace, Imaan E. B.; Whitler, Lily; Witstok, Joris; Woodrum, Charity (2023), *arXiv e-prints* [link].

30. "Spectroscopic confirmation of four metal-poor galaxies at z = 10.3-13.2" Curtis-Lake, Emma; Carniani, Stefano; Cameron, Alex; Charlot, Stephane; Jakobsen, Peter; Maiolino, Roberto; Bunker, Andrew; Witstok, Joris; Smit, Renske; Chevallard, Jacopo; Willott, Chris; Ferruit, Pierre; Arribas, Santiago; Bonaventura, Nina; Curti, Mirko; D'Eugenio, Francesco; Franx, Marijn; Giardino, Giovanna; Looser, Tobias J.; Lützgendorf, Nora; Maseda, Michael V.; Rawle, Tim; Rix, Hans-Walter; Rodr´del Pino, Bruno; Übler, Hannah; Sirianni, Marco; Dressler, Alan; Egami, Eiichi; Eisenstein, Daniel J.; Endsley, Ryan; Hainline, Kevin; Hausen, Ryan; Johnson, Benjamin D.; Rieke, Marcia; Robertson, Brant; Shivaei, Irene; Stark, Daniel P.; Tacchella, Sandro; Williams, Christina C.; Willmer, Christopher N. A.; Bhatawdekar, Rachana; Bowler, Rebecca; Boyett, Kristan; Chen, Zuyi; de Graaff, Anna; Helton, Jakob M.; Hviding, Raphael E.; Jones, Gareth C.; Kumari, Nimisha; **Lyu, Jianwei**; Nelson, Erica; Perna, Michele; Sandles, Lester; Saxena, Aayush; Suess, Katherine A.; Sun, Fengwu; Topping, Michael W.; Wallace, Imaan E. B.; Whitler, Lily (2023), *Nature Astronomy* [link].

31. "Identification and properties of intense star-forming galaxies at redshifts z $>$ 10" Robertson, B. E.; Tacchella, S.; Johnson, B. D.; Hainline, K.; Whitler, L.; Eisenstein, D. J.; Endsley, R.; Rieke, M.; Stark, D. P.; Alberts, S.; Dressler, A.; Egami, E.; Hausen, R.; Rieke, G.; Shivaei, I.; Williams, C. C.; Willmer, C. N. A.; Arribas, S.; Bonaventura, N.; Bunker, A.; Cameron, A. J.; Carniani, S.; Charlot, S.; Chevallard, J.; Curti, M.; Curtis-Lake, E.; D'Eugenio, F.; Jakobsen, P.; Looser, T. J.; Lützgendorf, N.; Maiolino, R.; Maseda, M. V.; Rawle, T.; Rix, H. -W.; Smit, R.; Übler, H.; Willott, C.; Witstok, J.; Baum, S.; Bhatawdekar, R.; Boyett, K.; Chen, Z.; de Graaff, A.; Florian, M.; Helton, J. M.; Hviding, R. E.; Ji, Z.; Kumari, N.; **Lyu, J.**; Nelson, E.; Sandles, L.; Saxena, A.; Suess, K. A.; Sun, F.; Topping, M.; Wallace, I. E. B. (2023), *Nature Astronomy* [link].

32. "Morpheus Reveals Distant Disk Galaxy Morphologies with JWST: The First AI/ML Analysis of JWST Images" Robertson, Brant E.; Tacchella, Sandro; Johnson, Benjamin D.; Hausen, Ryan; Alabi, Adebusola B.; Boyett, Kristan; Bunker, Andrew J.; Carniani, Stefano; Egami, Eiichi; Eisenstein, Daniel J.; Hainline, Kevin N.; Helton, Jakob M.; Ji, Zhiyuan; Kumari, Nimisha; **Lyu, Jianwei**; Maiolino, Roberto; Nelson, Erica J.; Rieke, Marcia J.; Shivaei, Irene; Sun, Fengwu; Übler, Hannah; Williams, Christina C.; Willmer, Christopher N. A.; Witstok, Joris (2023), *ApJ* [link].

33. "Radio and far-IR emission associated with a massive star-forming galaxy candidate at z$\sim$6.8: a radio-loud AGN in the reionization era?" Endsley, Ryan; Stark, Daniel P.; Fan, Xiaohui; Smit, Renske; Wang, Feige; Yang, Jinyi; Hainline, Kevin; **Lyu, Jianwei**; Bouwens, Rychard; Schouws, Sander (2022), *MNRAS* [link].

34. "A New Infrared Criterion for Selecting Active Galactic Nuclei to Lower Luminosities" Hviding, Raphael E.; Hainline, Kevin N.; Rieke, Marcia; Juneau, Stéphanie; **Lyu, Jianwei**; Pucha, Ragadeepika (2022), *AJ* [link].

35. "Infrared Spectral Energy Distributions and Dust Masses of Sub-solar Metallicity Galaxies at z$\sim$2.3" Shivaei, Irene; Popping, Gergö; Rieke, George; Reddy, Naveen; Pope, Alexandra; Kennicutt, Robert; Mobasher, Bahram; Coil, Alison; Fudamoto, Yoshinobu; Kriek, Mariska; **Lyu, Jianwei**; Oesch, Pascal; Sanders, Ryan; Shapley, Alice; Siana, Brian (2022), *ApJ* [link].

36. “Dust emission from the first massive galaxies” De Rossi, M. E.; Rieke, G. H.; Shivaei, I.; Bromm, V.; **Lyu, J.** (2020), *Boletin de la Asociacion Argentina de Astronomia La Plata Argentina* [link].
37. “The Far-Infrared emission of the first (z $\sim$6) massive galaxies” Rieke, George H.; De Rossi, Maria Emilia; Shivaei, Irene; Bromm, Volker; **Lyu, Jianwei** (2020), [link].
38. “The Far-infrared Emission of the First Massive Galaxies” De Rossi, Maria Emilia; Rieke, George H.; Shivaei, Irene; Bromm, Volker; **Lyu, Jianwei** (2018), *ApJ* [link].
39. “Long Fading Mid-infrared Emission in Transient Coronal Line Emitters: Dust Echo of a Tidal Disruption Flare” Dou, Liming; Wang, Ting-gui; Jiang, Ning; Yang, Chenwei; **Lyu, Jianwei**; Zhou, Hongyan (2016), *ApJ* [link].
40. “The WISE Detection of an Infrared Echo in Tidal Disruption Event ASASSN-14li” Jiang, Ning; Dou, Liming; Wang, Tinggui; Yang, Chenwei; **Lyu, Jianwei**; Zhou, Hongyan (2016), *ApJ* [link].
41. “SDSS J163459.82+204936.0: A Ringed Infrared-luminous Quasar with Outflows in Both Absorption and Emission Lines” Liu, Wen-Juan; Zhou, Hong-Yan; Jiang, Ning; Wu, Xufen; **Lyu, Jianwei**; Shi, Xiheng; Shu, Xinwen; Jiang, Peng; Ji, Tuo; Wang, Jian-Guo; Wang, Shu-Fen; Sun, Luming (2016), *ApJ* [link].