

# Jinyi Yang

**Steward Observatory**  
**The University of Arizona**  
933 N Cherry Ave., Tucson, AZ, 85721  
**Email** : jinyiyang@arizona.edu  
**Mobile** : +1-(520)-360-3966  
**Web**: <http://jinyiyang.github.io>

## WORKING EXPERIENCE

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<b>Steward Observatory, The University of Arizona</b> <i>Assistant Research Professor</i>	Tucson, AZ, USA <i>Since Oct 2022</i>
<b>Steward Observatory, The University of Arizona</b> <i>Peter A. Strittmatter Fellow</i>	Tucson, AZ, USA <i>Sept 2020 - Sept 2022</i>
<b>Steward Observatory, The University of Arizona</b> <i>Postdoctoral Researcher</i>	Tucson, AZ, USA <i>Oct 2017 - Aug 2020</i>
<b>Steward Observatory, The University of Arizona</b> <i>Visiting Scholar</i>	Tucson, AZ, USA <i>Sep 2014 - Oct 2015</i>

## RESEARCH INTERESTS

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- Early Supermassive Black Holes
- Cosmic Reionization History
- Black Hole-Galaxy Co-evolution
- Quasar Environment
- Quasar Survey and Quasar Luminosity Function
- Wide-area Imaging and Spectroscopic Surveys

## EDUCATION

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<b>Peking University</b> <i>Ph.D. in Astrophysics</i> Thesis: Quasar Surveys and Quasar Luminosity Function Based on Optical/NIR Color Selections Advisors: Prof. Xue-Bing Wu, Prof. Xiaohui Fan	Beijing, China <i>Sept 2011 – Jul 2017</i>
<b>University of Electronic Science and Technology of China</b> <i>Bachelor of Engineering</i> Major: Electromagnetic Field and Wireless Technology	Chengdu, China <i>Sept 2007 – Jul 2011</i>

## PROFESSIONAL SERVICES

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- Referee for The Astrophysical Journal
- Referee for The Astrophysical Journal Letter
- Referee for Monthly Notices of the Royal Astronomical Society
- Referee for Astronomy and Astrophysics
- JWST Telescope Allocation Committee (TAC) discussion panelist
- NASA ADAP proposal review panelist
- NASA Keck TAC
- NASA Swift TAC panelist
- DESI coordinator of University of Arizona, 2020.01 – 09
- Steward Observatory Graduate Admissions Committee
- Steward Observatory TAC

## COLLABORATIONS

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Steering Committee	EREBUS JWST High-z Quasar Collaboration
PI	DESI $z \gtrsim 5$ Quasar Survey
Co-I	The Ultimate X-SHOOTER Legacy Survey of Quasars (XQR-30, <a href="#">Link</a> )
Member	LSST AGN Science Collaboration ( <a href="#">Link</a> )
Member	Roman Cosmic Dawn Science Investigation Team member
Member	DESI imaging group ( <a href="#">Link</a> )
Member	DESI target selection group ( <a href="#">Link</a> )

## AWARDS

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- **2020.09:** Peter A. Strittmatter Postdoctoral Fellowship
- **2017.11:** Outstanding Research Award, Beijing Astronomical Society, China
- **2013.09:** Kwang-Hua Educational Foundation Scholarship, Peking University
- **2011–2015:** Graduate Student Scholarship, Peking University
- **2008–2011:** Renmin Scholarship, University of Electronic Science and Technology of China

## SELECTED GRANT

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- **JWST Cycle 2 GO Medium program (GO 3325):** 2023-2025, \$308,631, *Co-PI*
- **HST Cycle 27 GO program:** 2020-2024, \$51,845, *PI*
- **XMM-Newton AO-19 GO program:** 2022-2022, \$15,000 *PI*
- **Chandra Cycle-24 GO program:** 2023-2024, \$80,100 *PI*
- **JWST Cycle 1 GO Medium program (GO 1764):** 2022-2025, \$422,369, *Co-PI*
- **JWST Cycle 1 GO program (GO 2249):** 2022-2024, \$81,346, *PI*
- **JWST Cycle 1 GO program (GO 2028):** 2022-2025, \$125,235, *Co-PI*
- **SOFIA Cycle 8 GO program:** 2020-2022, \$120,700, *PI*
- **HST Cycle 26 GO program, DDT:** 2018-2021, \$24,020, *Science PI*
- **XMM-Newton AO-19 GO program:** 2019-2021, \$60,832 *Science PI*
- **NASA Keck, four programs:** 2018-2020, \$61,920, *Science PI*

## OBSERVING EXPERIENCES

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Large Binocular Telescope (LBT) 2*8.4m/LUCI, MODS	>15 nights
MMT 6.5m/RedChannel, MMIRS, MMTCam, SWIRC	>25 nights
Magellan Baade 6.5m/FIRE, IMACS	>50 nights
Keck 10m/NIRES, DEIMOS, MOSFIRE	>20 nights
Gemini 8m/GMOS, GNIRS	6 nights
P200 Hale 5m/DBSP, Triplespec	>25 nights
JCMT/SCUBA-2	4 nights
Lijiang 2.4m/YFOSC	>15 nights
ANU 2.3m/WiFeS	13 nights (remotely)
Bok 2.3m/B&C, 90Prime	11 nights
Xinglong 2.16m/BFOSC	>20 nights

## EXPERIENCES ON DATA ANALYSIS AND REDUCTION

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- **Optical/NIR:** ground-based long-slit, echelle, and multi-fiber spectroscopy; imaging JWST NIRC*am*, NIRS*pec*, and MIRI imaging and spectroscopic data
- **Sub-mm/radio:** spectroscopy and imaging with NOEMA, ALMA, VLA, and JCMT
- **X-ray:** *XMM-Newton* and *Chandra*

## SELECTED SUCCESSFUL OBSERVING PROPOSALS

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(PI, Co-PI, or Technical contact)

<b>JWST</b> C2	45.3 hours	Mapping the Most Extreme Protoclusters in the Epoch of Reionization. <i>Co-PI</i>
<b>JWST</b> C1	65.5 hours	A Comprehensive JWST View of the Most Distant Quasars Deep into the Epoch of Reionization. <i>Co-PI &amp; Contact</i>
<b>JWST</b> C1	6 hours	Monster in the Early Universe: Unveiling the Nature of a Dust Reddened Quasar Hosting a Ten-Billion Solar Mass Black Hole at $z = 7.1$ . <i>PI</i>
<b>JWST</b> C1	16.3 hours	Mapping a Distant Protocluster Anchored by a Luminous Quasar in the Epoch of Reionization. <i>Co-PI</i>
<b>ALMA</b> C9	29.8 hours	The Assembly of the Earliest Massive Quasar Host Galaxies. <i>PI</i>
<b>ALMA</b> C9	6.8 hours	A Multi-wavelength View of the Host Galaxy of the Earliest Supermassive Black Hole in the Universe. <i>PI</i>
<b>ALMA</b> C9	99.9 hours	A SPectroscopic survey of biased halos In the Reionization Era (ASPIRE): An ALMA/JWST Quasar Legacy Redshift Survey. <i>Co-PI</i>
<b>ALMA</b> C8	36.5 hours	The Assembly of the Earliest Massive Quasar Host Galaxies. <i>PI</i>
<b>ALMA</b> C8	1.7 hours	Unveiling the Nature of a Dust-reddened Quasar Hosting a Ten-Billion Solar Mass Black Hole at $z=7.1$ . <i>PI</i>
<b>ALMA</b> C6	15.8 hours	ALMA Mapping of the Most Distant Proto-Cluster. <i>PI</i>
<b>ALMA</b> C6	13.8 hours	A Magnified View of Black Hole/Galaxy Co-Evolution in the EoR. <i>Science PI &amp; Technical contact</i>

<b>ALMA C6</b>	5.7 hours	A Pilot Survey Towards the First Direct Black Hole Mass Measurements at $z \sim 5$ . <i>Co-I and Technical contact</i>
<b>HST C27</b>	9 orbits	Probing SMBH/Galaxy Co-Evolution with a Gravitationally Lensed Quasar. <i>PI</i>
<b>HST C26</b>	2 orbits	The Most Distant Gravitational Lensed Quasar at $z = 6.5$ . <i>Science PI and Technical contact, DDT</i>
<b>VLT P109</b>	36.4 hours	Probing Cosmic Reionization and Supermassive Black Hole Growth with Three New Luminous $z \sim 7$ Quasars. <i>PI</i>
<b>Keck 19A-20A</b>	7 nights	Probing Cosmic Reionization with Newly Discovered $z \sim 7$ Quasars. <i>Science PI &amp; Technical contact</i>
<b>Keck 18B</b>	2 nights	Probing Cosmic Reionization and Super-Massive Black Hole Growth with Newly Discovered $z \sim 7$ Quasars. <i>Science PI &amp; Technical contact</i>
<b>Gemini 20A</b>	12.5 hours	Exploring Reionization-era Quasars: A Complete Near-IR Spectroscopic Survey of $z \gtrsim 6.5$ Quasar Sample. <i>PI</i>
<b>Gemini 19B</b>	13.2 hours	Probing Cosmic Reionization with New $z > 6.5$ Luminous Quasars. <i>PI</i>
<b>Gemini 19A</b>	13.7 hours	Probing Cosmic Reionization and SMBH Growth with $z \sim 7$ Quasars. <i>Science PI &amp; Technical contact</i>
<b>Gemini 18FT</b>	5.7 hours	Observations of Three Newly Discovered Quasars at $z \sim 7$ . <i>PI</i>
<b>Gemini 18FT</b>	10 hours	GNIRS Observations of Two Newly Discovered $z > 6.7$ Quasars. <i>PI</i>
<b>VLA 22A</b>	93.24 hours	A Multi-wavelength Quasar Legacy Survey: Radio Emission from the Earliest SMBHs. <i>Co-I and Technical contact</i>
<b>VLA 19B</b>	13.8 hours	Probing ISM of the FIR Brightest Quasar Host at Reionization Era. <i>PI</i>
<b>VLA 18A</b>	3.0 hours	Radio Continuum Emission from the Most Luminous Quasar Host. <i>PI, DDT</i>
<b>Chandra C24</b>	200 ks	Unveiling the Nature of a Dust Reddened Quasar Hosting a Ten-Billion Solar Mass Black Hole at $z=7.1$ . <i>PI</i>
<b>XMM AO19</b>	70 ks	The Formation of the Most Massive Supermassive Black Hole at $z = 7.5$ . <i>PI</i>
<b>XMM AO19</b>	130 ks	A Magnified X-ray View of the Most Distant Lensed Quasar at $z = 6.5$ . <i>Science PI and Technical contact</i>
<b>SOFIA C8</b>	12.7 hours	Probing IR SED of a Bright, Gravitationally Lensed Quasar in the Reionization Epoch with SOFIA. <i>PI</i>
<b>NOEMA 21S</b>	9 hours	Unveiling the Nature of a Dust-reddened Quasar Hosting a Ten-Billion Solar Mass Black Hole at $z=7.1$ . <i>PI</i>
<b>NOEMA 19W</b>	24.0 hours	A Comprehensive Study of Quasar Host Galaxy at $z > 6.5$ . <i>PI</i>
<b>NOEMA 19W</b>	10.5 hours	Characterizing the ISM and Gas Excitation in the Most Luminous Quasar. <i>Co-PI</i>
<b>NOEMA 19S</b>	11 hours	Probing the ISM Properties of a Bright, Gravitationally Lensed Quasar Host. <i>Co-PI</i>
<b>NOEMA 19W</b>	2.0 hours	FIR Properties of an Outstandingly Luminous Young Quasar. <i>Co-PI, DDT</i>
<b>JCMT 18B</b>	22 hours	Dust Emission in Luminous Quasars at $z > 6.5$ . <i>PI</i>

<b>JCMT 18A</b>	2.0 hours	Dust Emission from the Most Luminous Quasar Host in the EoR. <i>PI, DDT</i>
<b>JCMT 17B</b>	12 hours	Dust emission in Luminous Quasars at $z > 5$ . <i>PI</i>
<b>Hale 5m</b>	>15 nights	Complete the uniform $z \sim 5.5$ quasar sample. <i>PI</i> Study black hole masses of luminous $z \sim 5$ quasars. <i>PI</i>
<b>Magellan</b>	> 30 nights	A Survey of Luminous Quasars at $z > 7$ . <i>PI</i>
<b>MMT</b>	> 30 nights	A Survey of Luminous Quasars at $z > 7$ . <i>PI</i>
	5 nights	Probing the Gaseous Universe at the Post-Reionization Epoch. <i>PI</i>
<b>LBT</b>	> 15 nights	Probing Cosmic Reionization with New $6.5 \leq z \leq 7$ Luminous Quasar Sample. <i>PI</i>

## SEMINARS AND COLLOQUIUMS

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- Tsinghua University, Astronomy Colloquium, **invited**, 2022
- Imperial College London, Astrophysics Seminar, **invited**, 2021
- University of Michigan, Astronomy Colloquium, **invited**, 2021
- UT Austin, ExGal/Cosmology Seminar, **invited**, 2020
- Steward, EURECA Seminar, **invited**, 2020
- Steward, Early Career Scientist Online Talk, 2020
- Steward, Galaxy Group Lunch Talk, **invited**, 2018
- Gemini Observatory, Science Colloquium, **invited**, 2018
- ASU Cosmology Seminar, 2016
- Carnegie Lunch Talk, Carnegie Observatory, 2016
- IMPS Seminar, UCO/Lick Observatory, 2016
- Caltech Tea Talk, 2016
- NOAO FLASH Talk, 2016

## TALK IN MEETINGS AND CONFERENCES

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- **2023 Nov**: ‘Probing co-evolution between the earliest supermassive black holes and host galaxies using JWST and ALMA’, talk at Resolving the Extragalactic Universe with ALMA & JWST conference (**Tokyo, Japan**)
- **2023 Jun**: ‘Probing the Early Universe Using the Most Distant Quasars’, talk at Roman Science Inspired By Emerging JWST Results (**invited, STScI, US**)
- **2023 Jun**: ‘Probing Cosmic Reionization Using the Most Distant Quasars’, talk at Reionisation in the Summer (**invited, MPIA, Germany**)
- **2023 Jun**: ‘First Look at the Rest-frame Optical Spectra and Quasar Host Galaxies of Luminous Quasars at  $z \sim 6.5 - 7.6$ ’, talk at First Light conference (**MIT, US**)
- **2023 Jul**: ‘First Look at the Rest-frame Optical Spectra and Quasar Host Galaxies of Luminous Quasars at  $z \sim 6.5 - 7.6$ ’, talk at the European Astronomical Society Annual Meeting 2023 (**Krakow, Poland**)
- **2022 Dec**: ‘First Look at the Rest-frame Optical Spectra and Quasar Host Galaxies of  $z > 6.5$  Quasars using Early ASPIRE Data’, talk at the First Science Results from JWST Meeting, **STScI (Online)**
- **2022 Oct**: ‘The Rest-frame Optical Spectra of  $z > 6.5$  Quasars and Their Host Galaxies’, talk at the Ringberg JWST workshop (**Online**)

- **2021 Jun:** ‘High-redshift ( $z \gtrsim 5$ ) Quasar Survey with DESI’, talk at June 2022 DESI Collaboration Meeting (**invited, Online**)
- **2021 Dec:** ‘High-redshift ( $z \gtrsim 5$ ) Quasars from DESI’, talk at December 2021 DESI Collaboration Meeting (**invited, Online**)
- **2020 Sept:** ‘Exploring Reionization-era Quasars: Study the Early SMBHs at Redshift 7 with Keck/NIRES’, talk at Keck Science Meeting 2020 (**Online**)
- **2020 Jul:** ‘Constraints on the IGM evolution and early SMBHs using a new reionization-era quasar sample’, talk at SAZERAC summer meeting (**Online**)
- **2019 Oct:** ‘Exploring Reionization-Era Quasars: Multi-wavelength Follow-ups of the New  $z \sim 7$  Quasar Sample’, talk at Cosmic Evolution of Quasars: from the First Light to Local Relics (**Beijing, China**)
- **2019 Jul:** ‘Exploring Reionization-Era Quasars: Multi-wavelength Follow-ups of the New  $z \sim 7$  Quasar Sample’, talk at ‘Barefoot EoR’: Exploring the first billion years of the Universe (**Cairns, Australia**)
- **2019 Jan:** ‘Probing Cosmic Reionization with New  $z \sim 7$  Quasar Sample’, talk at Extremely Big Eyes on the Early Universe conference (**UCLA, US**)
- **2018 May:** ‘Exploring Reionization-Era Quasars with DESI Legacy imaging Survey and UKIRT Hemisphere Survey’, talk at DECam Community Science Workshop 2018 (**Tucson, US**)
- **2018 Mar:** ‘A New Survey of  $z \sim 7$  Quasar II QLF, BH Masses and Interesting Individual’, talk at the symposium of Arthur M. Wolfe Symposium in Astrophysics (**Esalen, US**)
- **2018 Feb:** ‘Exploring Quasars at Cosmic Dawn: A Survey of  $z \sim 7$  Quasar’, talk at the Steward Internal Symposium (**Steward Observatory, US**)
- **2017 Aug:** ‘Quasar Surveys and Quasar Luminosity Functions based on Optical and Infrared Color Selected Samples’, talk at the annual academic meeting of Chinese Astronomical Society (**Urumqi, China**)
- **2017 Feb:** ‘Surveys of Luminous Quasars in the Post-reionization Universe at  $z = 5 - 6$ ’, talk at Bilateral Workshop between the KIAA/PKU and PUC (**Beijing, China**)
- **2017 Jan:** ‘Surveys of Luminous Quasars in the Post-reionization Universe at  $z = 5 - 6$ ’, 229th AAS Meeting Dissertation Talk (**Dallas, US**)
- **2016 Nov:** ‘Quasar surveys and Quasar luminosity function(QLF) at  $z > 5$ ’, talk at 2016 Annual academic meeting of Chinese Astronomical Society (**Wuhan, China**)
- **2016 Jun:** ‘Quasar selection and Quasar luminosity function(QLF) at  $z \sim 5$ ’, poster at the conference of Illuminating the Dark Ages: Quasars and Galaxies in the Reionization Epoch (**MPIA, Germany**)
- **2015 Feb:** ‘Study of the bright end quasar luminosity function at  $z \sim 5$  based on SDSS-WISE data’, talk at the Steward Internal Symposium (**Steward Observatory, US**)
- **2015 Feb:** ‘Study of the bright end quasar luminosity function at  $z \sim 5$  based on SDSS-WISE data’, poster at the meeting of WISE at 5: Legacy and Prospects (**Caltech, US**)
- **2014 May:** ‘Quasar selection based on deep Y-band image’, poster at the Sino-Germany workshop on galaxies and cosmology (**Xi’an, China**)
- **2013 Jun:** ‘CFHT deep Y-band image of VVDS F-22 field and quasar candidates selection’, talk at the EACOA Medium-Size Telescope Science Workshop (**Kunming, China**)

## MENTORING EXPERIENCE

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- Graduate student, Minghao Yue, University of Arizona, co-advised with Xiaohui Fan Sept. 2019 – Sept. 2022. *Gravitationally lensed quasar survey and multi-wavelength observations*. Three papers published. Graduated in 2022 (postdoc in MIT)
- Graduate student, Xiangyu Jin, University of Arizona, co-advised with Xiaohui Fan Sept. 2020 – present. *Probing IGM evolution during the reionization epoch using quasar spectra*. One paper published.
- Undergraduate, Ansh R. Gupta, University of Arizona, co-advised with Xiaohui Fan Sept. 2021 – present. *Identification and spectral analysis of DESI high-redshift quasars*.
- Postdoc, Weizhe Liu, University of Arizona, co-advised with Xiaohui Fan Sept. 2022 – present. *High-redshift quasar outflows from JWST observations*.

## TEACHING AND OUTREACH

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- **2023.04**: Guest lecturer for Cosmology, 'Reionization' (Instructor: Prof. Xiaohui Fan)
- **2022.04**: Guest lecturer for Astronomy 296, Topics in Astronomical Research (Instructor: Prof. Edward Olszewski)
- **2021.12**: Public talk, 'A Comprehensive JWST View of the Most Distant Quasars', Steward Public Evening Lecture, **invited**
- **2021.04**: Public talk, 'A Comprehensive JWST View of the Most Distant Quasars', Astronomy on Tap (Mandarin, Caltech Astronomy), **invited**
- **2021**: Public talk, 'The Earliest Supermassive Black Holes in the Universe', San Diego Astronomy Association, **invited**
- **2021**: Translator of DESI Science Pages.
- **2020.07**: Public talk, 'Searching for the Most Distant Quasars in the Universe', the Live from NOIRLab webcast, **invited**
- **2019.04**: Guest lecturer for Astronomy 296, Topics in Astronomical Research (Instructor: Prof. Edward Olszewski)
- **2017.07**: Manager and guide of campus observatory visit in Peking University campus open day
- **2013.05**: Teaching undergraduates on astronomical observations in the campus observatory, Peking University
- **2013.03 – 07**: Teaching assistant in Fundamental Astronomy, Peking University

# Refereed Publications of Jinyi Yang

## BIBLIOGRAPHY

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**ADS link:** <https://ui.adsabs.harvard.edu/public-libraries/gIxy-ICCS4KohS2WPou0bA>

**Total citations:** > 6600 total citations as of December 2023 (via ADS)

**h-index:** 37 (via ADS)

**Total publications:** 98 refereed publications, including 12 1st-author and 19 2nd/3rd-author publications

## FIRST AUTHORED PUBLICATIONS

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12. **Yang, J.**, Wang, F., Fan, X., Hennawi, J. F., Barth, A. J., Bañados, E., Sun, F., Liu, W., Cai, Z., Jiang, L., Li, Z., Onoue, M., Schindler, J.-T., Shen, Y., Wu, Y., Bhowmick, A. K., Bieri, R., Blecha, L., Bosman, S., Champagne, J. B., Colina, L., Connor, T., Costa, T., Davies, F. B., Decarli, R., De Rosa, G., Drake, A. B., Egami, E., Eilers, A.-C., Evans, A. E., Farina, E. P., Habouzit, M., Haiman, Z., Jin, X., Jun, H. D., Kakiichi, K., Khusanova, Y., Kulkarni, G., Loiacono, F., Lupi, A., Mazzucchelli, C., Pan, Z., Rojas-Ruiz, S., Strauss, M. A., Tee, W. L., Trakhtenbrot, B., Trebitsch, M., Venemans, B., Vestergaard, M., Volonteri, M., Walter, F., Xie, Z.-L., Yue, M., Zhang, H., Zhang, H., Zou, S., *A Spectroscopic Survey of Biased Halos in the Reionization Era (ASPIRE): A First Look at the Rest-frame Optical Spectra of  $z > 6.5$  Quasars Using JWST*. **ApJL**, 951, L5, (2023)
11. **Yang, J.**, Fan, X., Gupta, A., Myers, A., Palanque-Delabrouille, N., Wang, F., Yèche, C., et al. *DESI  $z \gtrsim 5$  Quasar Survey. I. A First Sample of 400 New Quasars at  $z \sim 4.7 - 6.6$* . **ApJS**, 269, 27 (2023)
10. **Yang, J.**, Fan, X., Wang, F., Lanzuisi, G., Nanni, R., Cappi, M., Chartas, G., Dadina, M., Decarli, R., Jin, X., Keeton, C. R., Venemans, B., Walter, F., Wang, R., Wu, X-B., Yue, M., Zabludoff, A., *Deep XMM-Newton Observation of a X-ray Weak, Broad Absorption Line Quasar at  $z = 6.5$* . **ApJL**, 924, 25 (2022)
9. **Yang, J.**, Wang, F., Fan, X., Barth, A., Hennawi, J., Nanni, R., Bian, F., Davies, F., Farina, E. P., Schindler, J.-T., Banados, E., Decarli, R., Eilers, A.-C., Green, R., Guo, H., Jiang, L., Li, J.-T., Venemans, B., Walter, F., Wu, X-B., Yue, M., *Probing Early Super-massive Black Hole Growth and Quasar Evolution with Near-infrared Spectroscopy of 37 Reionization-era Quasars at  $6.3 < z \leq 7.64$* . **ApJ**, 923, 262 (2021)
8. **Yang, J.**, Wang, F., Fan, X., Hennawi, J., Davies, F., Yue, M., Banados, E., Wu, X-B., Venemans, B., Barth, A., Bian, F., Decarli, R., Farina, E. P., Green, R., Jiang, L., Li, J.-T., Mazzucchelli, C., Walter, F., *Pōniuā'ena: A Luminous  $z = 7.5$  Quasar Hosting a 1.5 Billion Solar Mass Black Hole*. **ApJL**, 897, 14 (2020)
7. **Yang, J.**, Wang, F., Fan, X., Hennawi, J., Davies, F., Yue, M., Eilers, A.-C., Farina, E. P., Wu, X.-B., Bian, F., Pacucci, F., Lee, K.-G., *Measurements of the  $z \sim 6$  Intergalactic Medium Optical Depth and Transmission Spikes Using a New  $z > 6.3$  Quasar Sample*. **ApJ**, 904, 26 (2020)



6. **Yang, J.**, Venemans, B., Wang, F., Fan, X., Novak, M., Decarli, R., Walter, F., Yue, M., Momjian, E., Keeton, C. R., Wang, R., Zabludoff, A., Wu, X.-B., Bian, F., *Far-infrared Properties of the Bright, Gravitationally Lensed Quasar J0439+1634 at  $z = 6.5$* . **ApJ**, 880, 153 (2019)
5. **Yang, J.**, Wang, F., Fan, X., Yue, M., Wu, X.-B., Li, J.-T., Bian, F., Jiang, L., Bañados, E., Beletsky, Y., *Exploring Reionization-era Quasars. IV. Discovery of Six New  $z \gtrsim 6.5$  Quasars with DES, VHS, and unWISE Photometry*. **AJ**, 157, 236 (2019)
4. **Yang, J.**, Wang, F., Fan, X., Wu, X.-B., Bian, F., Bañados, E., Yue, M., Schindler, J.-T., Yang, Q., Jiang, L., McGreer, I. D., Green, R., Dye, S., *Filling in the Quasar Redshift Gap at  $z \sim 5.5$ . II. A Complete Survey of Luminous Quasars in the Post-reionization Universe*. **ApJ**, 871, 199 (2019)
3. **Yang, J.**, Wu, X.-B., Liu, D., Fan, X., Yang, Q., Wang, F., McGreer, I. D., Fan, Z., Yuan, S., Shan, H., *Deep CFHT Y-band Imaging of VVDS-F22 Field. II. Quasar Selection and Quasar Luminosity Function*. **AJ**, 155, 110 (2018)
2. **Yang, J.**, Fan, X., Wu, X.-B., Wang, F., Bian, F., Yang, Q., McGreer, I. D., Yi, W., Jiang, L., Green, R., Yue, M., Wang, S., Li, Z., Ding, J., Dye, S., Lawrence, A., *Discovery of 16 New  $z \sim 5.5$  Quasars: Filling in the Redshift Gap of Quasar Color Selection*. **AJ**, 153, 184 (2017)
1. **Yang, J.**, Wang, F., Wu, X.-B., Fan, X., McGreer, I. D., Bian, F., Yi, W., Yang, Q., Ai, Y., Dong, X., Zuo, W., Green, R., Jiang, L., Wang, S., Wang, R., Yue, M., *A Survey of Luminous High-redshift Quasars with SDSS and WISE. II. the Bright End of the Quasar Luminosity Function at  $z \sim 5$* . **ApJ**, 829, 33 (2016)

## SECOND AND THIRD AUTHORED PUBLICATIONS

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