

## PUBLICATIONS

**In Refereed Journals** (~16,500 citations and  $h$ -index=52 as of May 2020)

121. Jifeng Liu, **Zheng Zheng**, Roberto Soria, et al. 2020, ApJ, to be submitted (arXiv:2005.12595)  
“Phase-dependent study of near-infrared disk emission lines in LB-1”
120. Yiping Ao, **Zheng Zheng**, Christian Henkel, Shiyu Nie, et al. 2020, Nature Astronomy,  
<https://doi.org/10.1038/s41550-020-1033-3>  
“Infalling Gas in a Lyman- $\alpha$  Blob”
119. Jiani Ding, Zheng Cai, J. Xavier Prochaska, H Finley, Xiaohui Fan, **Zheng Zheng**, H. Fathivavsari,  
& P. Petitjean 2020, ApJ, 889, L12  
“Deep Hubble Space Telescope Imaging on the Extended Ly $\alpha$  Emission of a QSO at  $z = 2.19$  with  
Damped Lyman Alpha System as a Natural Coronagraph”
118. R. Marques-Chaves, et al. 2020, MNRAS, 492, 1257  
“Rest-frame UV properties of luminous strong gravitationally lensed Ly emitters from the BELLS  
GALLERY Survey”
117. R. Ahumada, et al., ApJS, submitted (arXiv:1912.02905)  
“The Sixteenth Data Release of the Sloan Digital Sky Surveys: First Release from the APOGEE-2  
Southern Survey and Full Release of eBOSS Spectra”
116. Jifeng Liu, Haotong Zhang, et al. 2019, Nature, 575, 618  
“A wide starblack-hole binary system from radial-velocity measurements”
115. Shiro Mukae, et al. 2019, ApJ, accepted (arXiv:1910.02962)  
“3D Distribution Map of HI Gas and Galaxies Around an Enormous Ly $\alpha$  Nebula and Three QSOs  
at  $z = 2.3$  Revealed by the HI Tomographic Mapping Technique”
114. Zhaoyu Wang, et al. 2019, ApJ, 879, 71  
“Accurate Modeling of the Projected Galaxy Clustering in Photometric Surveys: I. Tests with Mock  
Catalogs”
113. Zhenyuan Wang, et al. 2019, Phys. Rev. Lett., submitted (arXiv:1901.02724)  
“Can HI gas trace the matter density distribution linearly on large scales?”
112. Xiaoju Xu & **Zheng Zheng** 2020, MNRAS, 492, 2739  
“Galaxy assembly bias of central galaxies in the Illustris simulation”
111. D. S. Aguado, et al. 2019, ApJS, 240, 23  
“The Fifteenth Data Release of the Sloan Digital Sky Surveys: First Release of MaNGA Derived  
Quantities, Data Visualization Tools and Stellar Library”
110. Raphael Sadoun, Emilio Romano-Diaz, Isaac Shlosman, **Zheng Zheng** 2019, MNRAS, 484, 4601  
“Lyman- $\alpha$  Properties of Simulated Galaxies in Overdense Regions: Effects of Galactics Winds at  
 $z > 6$ ”
109. Hong Guo, Xiaohu Yang, Anand Raichoor, **Zheng Zheng**, et al. 2019, ApJ, 871, 147  
“Evolution of the Star-Forming Galaxies from  $z=0.7$  to 1.2 with eBOSS Emission Line Galaxies”
108. Kevin McCarthy, **Zheng Zheng**, & Hong Guo 2019, MNRAS, 487, 2424  
“The Effects of Galaxy Assembly Bias on the Inference of Growth Rate from Redshift-Space Distor-  
tions”
107. Rupert A.C. Croft, Jordi Miralda-Escudé, **Zheng Zheng**, Michael Blomqvist, & Matthew Pieri 2018,  
MNRAS, 481, 1320  
“Intensity mapping with SDSS/BOSS Lyman- $\alpha$  emission, quasars and their Lyman- $\alpha$  forest”

106. Kaustav Mitra, Suchetana Chatterjee, Michael A. DiPompeo, Adam D. Myers, & **Zheng Zheng** 2018, MNRAS, 477, 45  
“The Halo Occupation Distribution of Obscured Quasars: Revisiting the Unification Model”
105. Haojie Xu, **Zheng Zheng**, Hong Guo, Ying Zu, Idit Zehavi, & David H. Weinberg 2018, MNRAS, 481, 5470  
“The Conditional Colour-Magnitude Distribution: I. A Comprehensive Model of the Colour-Magnitude-Halo Mass Distribution of Present-Day Galaxies”
104. Xiaoju Xu & **Zheng Zheng** 2018, MNRAS, 479, 1579  
“Dependence of Halo Bias and Kinematics on Assembly Variables”
103. Matthew Cornachione, Adam Bolton, Yiping Shu, **Zheng Zheng**, et al. 2018, ApJ, 853, 148  
“The BOSS Emission-Line Lens Survey V. Morphology and Substructure of Lensed Lyman- $\alpha$  Emitters at redshift  $z \approx 2.5$  in the BELLS GALLERY”
102. SDSS Collaboration, Abolfathi, B., et al. 2018, ApJS, 235, 42  
“The Fourteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the extended Baryon Oscillation Sky Survey and from the second phase of the Apache Point Observatory Galactic Evolution Experiment”
101. Hong Guo, Cheng Li, **Zheng Zheng**, H. J. Mo, Y. P. Jing, Ying Zu, S. H. Lim, & Haojie Xu 2017, ApJ, 846, 61  
“Constraining the HI-Halo Mass Relation From Galaxy Clustering”
100. Subo Dong, Ji-Wei Xie, Ji-Lin Zhou, **Zheng Zheng**, & Ali Luo 2018, PNAS, 115, 266  
“LAMOST telescope reveals that Neptunian cousins of hot Jupiters are mostly single offspring of stars that are rich in heavy elements”
99. Jia-Ni Ye, Hong Guo, **Zheng Zheng**, & Idit Zehavi 2017, ApJ, 841, 45  
“Properties and Origin of Galaxy Velocity Bias in the Illustris Simulation”
98. Michael R. Blanton, et al. 2017, AJ, 154, 28  
“Sloan Digital Sky Survey IV: Mapping the Milky Way, Nearby Galaxies and the Distant Universe”
97. Alex Smith, Shaun Cole, Carlton Baugh, **Zheng Zheng**, Raul Angulo, Peder Norberg, & Idit Zehavi 2017, MNRAS, 470, 4646  
“A Lightcone Catalogue from the Millennium-XXL Simulation”
96. Rui Marques-Chaves, Ismael Pérez-Fournon, Yiping Shu, et al. 2017, ApJ, 834, L18  
“Discovery of a Very Bright and Intrinsically Very Luminous, Strongly Lensed Ly $\alpha$  Emitting Galaxy at  $z = 2.82$  in the BOSS Emission-Line Lens Survey”
95. Ji-Wei Xie, Subo Dong, Zhaohuan Zhu, Daniel Huber, **Zheng Zheng**, et al. 2016, PNAS, 113, 11431  
“Exoplanet orbital eccentricities derived from LAMOST-Kepler analysis”
94. Yiping Shu, Adam Bolton, et al. 2016, ApJ, 833, 264  
“The BOSS Emission-Line Lens Survey. IV. Smooth Lens Models for the BELLS GALLERY Sample”
93. Hong Guo, **Zheng Zheng**, Peter S. Behroozi, et al. 2016, ApJ, 831, 3  
“Galaxy Three-Point Correlation Functions and Halo/Subhalo Models”
92. SDSS Collaboration, Albareti, F. D., et al. 2017, ApJS, 233, 25  
“The Thirteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey MAPPING Nearby Galaxies at Apache Point Observatory”
91. Raphael Sadoun, **Zheng Zheng**, & Jordi Miralda-Escudé 2017, ApJ, 839, 44  
“On the decreasing fraction of Strong Ly $\alpha$  Emitters around  $z \sim 6-7$ ”

90. Yiping Shu, Adam Bolton, Christopher Kochanek, Masamune Oguri, Ismael Perez-Fournon, **Zheng Zheng**, et al. 2016, ApJ, 824, 86  
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89. Samuel Cabot, Renyue Cen, & **Zheng Zheng** 2016, MNRAS, 462, 1076  
“C IV and He II Line Emission of Lyman Alpha Blobs: Powered by Shock Heated Gas”
88. Ethan Lake, **Zheng Zheng**, & Subo Dong 2016, MNRAS, 465, 2010  
“Detecting Extrasolar Asteroid Belts Through Their Microlensing Signature”
87. Ethan Lake & **Zheng Zheng** 2016, MNRAS, 465, 2018  
“Gravitational Lensing by Ring-Like Structures”
86. Haojie Xu, **Zheng Zheng**, Hong Guo, Ju Zhu, & Idit Zehavi 2016, MNRAS, 460, 3647  
“On the Clustering of Faint Red Galaxies”
85. Hong Guo, **Zheng Zheng**, Peter S. Behroozi, et al. 2016, MNRAS, 459, 3040  
“Modelling Galaxy Clustering: Halo Occupation Distribution versus Subhalo Matching”
84. Dawson, K., et al. 2016, AJ, 151, 44  
“The SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Overview and Early Data”
83. Ao, Y., et al. 2015, A&A, 581, A132  
“What Powers Lyman-alpha Blobs?”
82. **Zheng Zheng** & Hong Guo 2016, MNRAS, 458, 4015  
“Accurate and Efficient Halo-based Galaxy Clustering Modelling with Simulations”
81. Hong Guo, **Zheng Zheng**, et al. 2015, MNRAS, 453, 4368  
“Redshift-Space Clustering of SDSS Galaxies — Luminosity Dependence, Halo Occupation Distribution, and Velocity Bias”
80. Jeffrey L. Carlin, et al. 2015, AJ, 150, 4  
“Estimation of Distances to Stars with Stellar Parameters from LAMOST”
79. Rupert Croft, Jordi Miralda-Escudé, **Zheng Zheng**, et al. 2016, MNRAS, 457, 3541  
“Large-scale clustering of Lyman-alpha emission intensity from SDSS/BOSS”
78. Ethan Lake, **Zheng Zheng**, Renyue Cen, Raphael Sadoun, Rieko Momose, & Masami Ouchi 2015, ApJ, 806, 46  
“On the Diffuse Lyman-alpha Halo Around Lyman-alpha Emitting Galaxies”
77. Alam, S., et al. (SDSS-III Collaboration) 2015, ApJS, 219, 12  
“The Eleventh and Twelfth Data Releases of the Sloan Digital Sky Survey: Final Data from SDSS-III”
76. Francesco Shankar, Hong Guo, et al. 2014, ApJ, 797, L27  
“On the intermediate-redshift central stellar mass-halo mass relation, and implications for the evolution of the most massive galaxies since  $z \sim 1$ ”
75. Hong Guo, **Zheng Zheng**, Y.P. Jing, et al. 2015, MNRAS, 449, L95  
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74. **Z. Zheng**, E. O. Ofek, S. R. Kulkarni, J. D. Neill, & M. Juric 2014, ApJ, 797, 71  
“Probing the Intergalactic Medium with Fast Radio Bursts”
73. Kathleen Grabowski, Jeffrey L. Carlin, Heidi Jo Newberg, et al. 2015, RAA, 15, 849  
“Fixing the Reference Frame for PPMXL Proper Motions Using Extragalactic Sources”
72. Hong Guo, **Zheng Zheng**, Idit Zehavi, Kyle Dawson, et al. 2015, MNRAS, 446, 578  
“Velocity Bias from the Small Scale Clustering of SDSS-III BOSS Galaxies”

71. S. R. Kulkarni, E. O. Ofek, J. D. Neill, **Z. Zheng**, & M. Juric 2014, ApJ, 797, 70  
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70. **Zheng Zheng**, Jeffrey L. Carlin, Timothy C. Beers, Licai Deng, et al. 2014, ApJ, 785, L23  
“The First Hypervelocity Star from the LAMOST Survey”
69. Hong Guo, **Zheng Zheng**, Idit Zehavi, Haojie Xu, et al. 2014, MNRAS, 441, 2398  
“The clustering of galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: modeling of the luminosity and colour dependence in the Data Release 10”
68. Subo Dong, **Zheng Zheng**, Zhaohuan Zhu, et al. 2014, ApJ, 789, L3  
“On the Metallicities of Kepler Stars”
67. Suchetana Chatterjee, My Nguyen, Adam Myers, & **Zheng Zheng** 2013, ApJ, 779, 147  
“A Direct Measurement of the Mean Occupation Function of Quasars: Breaking Degeneracies between Halo Occupation Distribution Models”
66. **Zheng Zheng** & Joshua Wallace 2014, ApJ, 794, 116  
“Anisotropic Lyman-alpha Emission”
65. Ahn, C. P., et al. (SDSS-III Collaboration) 2013, ApJS, 211, 17  
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64. Jonathan W. Richardson, Suchetana Chatterjee, **Zheng Zheng**, Adam Myers, Ryan C. Hickox 2013, ApJ, 774, 143  
“The Halo Occupation Distribution of X-ray-Bright Active Galactic Nuclei: A Comparison with Luminous Quasars”
63. Yue Shen, Cameron K. McBride, Martin White, **Zheng Zheng**, et al. 2013, ApJ, 778, 98  
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62. Hong Guo, Idit Zehavi, **Zheng Zheng**, David H. Weinberg, et al. 2013, ApJ, 767, 122  
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61. John K. Parejko, et al. 2013, MNRAS, 429, 98  
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60. Renyue Cen & **Zheng Zheng** 2013, ApJ, 775, 112  
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59. Dawson, K. S., et al. (SDSS-III Collaboration) 2013, AJ, 145, 10  
“The Baryon Oscillation Spectroscopic Survey of SDSS-III”
58. Ahn, C. P., et al. (SDSS-III Collaboration) 2012, ApJS, 203, 21  
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57. Licai Deng, Heidi Jo Newberg, Chao Liu, Jeffrey L. Carlin, et al. 2012, RAA, 12, 735  
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56. Jeffrey L. Carlin, Sebastien Lepine, Heidi Jo Newberg, Licai Deng, et al. 2012, RAA, 12, 755  
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55. Jonathan Richardson, **Zheng Zheng**, Suchetana Chatterjee, Daisuke Nagai, & Yue Shen 2012, ApJ, 755, 30  
“The Halo Occupation Distribution of SDSS Quasars ”
54. Nuza, S. E., Sanchez, A. G., Prada, F., et al. 2013, MNRAS, 432, 743  
“The Clustering of Galaxies at  $z \sim 0.5$  in the SDSS-III Data Release 9 BOSS-CMASS Sample: a Test for the LCDM Cosmology”
53. Hong Guo, Idit Zehavi, & **Zheng Zheng** 2012, ApJ, 756, 127  
“A New Method to Correct for Fiber Collisions in Galaxy Two-point Statistics”
52. Kulas, K. R., Shapley, A. E., Kollmeier, J. A., **Zheng, Z.**, Steidel, C. C., & Hainline, K. N. 2012, ApJ, 745, 33  
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51. Chatterjee, S., DeGraf, C., Richardson, J., **Zheng, Z.**, Nagai, D., & Di Matteo, T. 2012, MNRAS, 419, 2657  
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50. Zehavi, I., Patiri, S., & **Zheng, Z.** 2012, ApJ, 746, 145  
“The Growth of Galaxy Stellar Mass Within Dark Matter Halos”
49. DeGraf, C., et al. 2011, MNRAS, 416, 1591  
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48. White, M., et al. 2011, ApJ, 728, 126  
“The Clustering of Massive Galaxies at  $z \sim 0.5$  from the First Semester of BOSS Data”
47. **Zheng, Z.**, Cen, R., Weinberg, D. H., Trac, H., & Miralda-Escudé, J. 2011, ApJ, 739, 62  
“Extended Lyman-Alpha Emission around Star-forming Galaxies”
46. Zehavi, I., **Zheng, Z.**, Weinberg, D. H., Blanton, M. R., et al. 2011, ApJ, 736, 59  
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45. **Zheng, Z.**, Cen, R., Trac, H., & Miralda-Escudé, J. 2011, ApJ, 726, 38  
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42. Gong, Y., Wang, X., **Zheng, Z.**, & Chen X. L. 2010, RAA, 10, 107  
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41. Tinker, J. L., Wechsler, R. H., & **Zheng, Z.** 2010, ApJ, 709, 67  
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40. Wang, X., Chen, X. L., **Zheng, Z.**, Wu, F. Q., Zhang, P. J., & Zhao, Y. H. 2009, MNRAS, 394, 1775  
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39. **Zheng, Z.**, Zehavi, I., Eisenstein, D. J., Weinberg, D. H., & Jing, Y. P. 2009, ApJ, 707, 554  
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38. Yoo, J., Weinberg, D. H., Tinker, J. L., **Zheng, Z.**, & Warren, M. S. 2009, ApJ, 698, 967  
“Extending Recovery of the Primordial Matter Power Spectrum”

37. Hennawi, J. F., Prochaska, J. X., Kollmeier, J., & **Zheng, Z.** 2009, ApJ, 693, L49  
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36. Brown, M. J. I., **Zheng, Z.**, White, M., Dey A., Jannuzi, B. T., et al. 2008, ApJ, 682, 937  
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35. Zu, Y., **Zheng, Z.**, Zhu, G. T., & Jing, Y. P. 2008, ApJ, 686, 41  
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34. Chuzhoy, L., & **Zheng, Z.** 2007, ApJ, 670, 912  
“Radiative Transfer Effect on Ultraviolet Pumping of the 21cm Line in the High Redshift Universe”
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30. White, M., **Zheng, Z.**, Brown, M. J. I., Dey, A., & Jannuzi, B. T. 2007, ApJ, 655, 69  
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29. Zhang, P., **Zheng, Z.**, & Cen, R. 2007, MNRAS, 382, 1087  
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28. **Zheng, Z.**, & Ramirez-Ruiz, E. 2007, ApJ, 665, 1220  
“Deducing the Lifetime of Short Gamma-Ray Burst Progenitors from Host Galaxy Demography”
27. Zhu, G., **Zheng, Z.**, Lin, W. P., Jing, Y. P., Kang, X., & Gao, L. 2006, ApJ, 639, L5  
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26. **Zheng, Z.**, & Weinberg, D. H. 2007, ApJ, 659, 1  
“Breaking the Degeneracies Between Cosmology and Galaxy Bias”
25. Yoo, J., Tinker, J. L., Weinberg, D. H., **Zheng, Z.**, Katz, N., & Davé, R. 2006, ApJ, 652, 26  
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24. **Zheng, Z.**, & Ménard, B. 2005, ApJ, 635, 599  
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22. Tinker, J. L., Weinberg, D. H., & **Zheng, Z.** 2006, MNRAS, 368, 85  
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21. Tinker, J. L., Weinberg, D. H., **Zheng, Z.**, & Zehavi, I. 2005, ApJ, 631, 41  
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18. Abazajian, K., **Zheng, Z.**, Zehavi, I., Weinberg, D. H., Frieman, J. A., et al. 2005, ApJ, 625, 613  
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17. **Zheng, Z.** 2004, ApJ, 614, 527  
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“Interpreting the Observed Clustering of Red Galaxies at  $z \sim 3$ ”
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