

PUBLICATIONS

In Refereed Journals ($\sim 33,300$ citations and h -index=66 as of July 2026)

153. Chuan-Peng Zhang, Hong Guo, Yizhou Gu, et al. 2026, *Nature Astronomy*, accepted
“Weak Evolution of Cosmic Atomic Hydrogen over the Past 4.5 Billion Years”
152. Pengfei Li & **Zheng Zheng** 2026, *MNRAS*, accepted
“Analytical and fitting formulae for solutions to Lyman-alpha radiative transfer equations: the effects of geometry, recoil, and velocity gradients”
151. T. Hagen, K.S. Dawson, **Z. Zheng**, et al. 2026, *JCAP*, submitted (arXiv:2606.18581)
“DESI Data Release 2 ELGs: Property-dependent subsamples, imaging systematics, and clustering”
150. Ryuichiro Hada, Paul Martini, David H. Weinberg, **Zheng Zheng**, et al. 2026, *ApJ*, i1003, 94
“Measurements of quasar proximity zones with the Lyman- α forest of DESI Y1 quasars”
149. Pengfei Li & **Zheng Zheng** 2025, *MNRAS*, 542, 2151
“Emulating extended Lyman-alpha haloes around star-forming galaxies”
148. T. Hagen, K.S. Dawson, **Z. Zheng**, et al. 2025, *ApJ*, 992, 121
“DESI Emission Line Galaxies: Clustering Dependence on Stellar Mass and [OII] Luminosity”
147. DESI Collaboration 2025, *AJ*, 171, 285
“Data Release 1 of the Dark Energy Spectroscopic Instrument”
146. Mingyu Li, Haibin Zhang, Zheng Cai, et al. 2024, *ApJS*, 275, 27
“MAMMOTH-Subaru. II. Diverse Populations of Circumgalactic Ly α Nebulae at Cosmic Noon”
145. Haojie Xu, **Zheng Zheng**, Xiaohu Yang, Qingyang Li 2024, *MNRAS*, 533, 1485
“The conditional colour-magnitude distribution: II. A comparison of galaxy colour and luminosity distribution in galaxy groups”
144. Chen Di-Chang, et al. 2023, *PNAS*, 120, e2304179120
“The evolution of hot Jupiters revealed by the age distribution of their host stars”
143. Jia-Yi Yang, et al. 2023, *AJ*, 166, 243
“Planets Across Space and Time (PAST) IV: The Occurrence and Architecture of Kepler Planetary Systems as a Function of Kinematic Age Revealed by the LAMOST-Gaia-Kepler Sample”
142. Antoine Rocher, et al. 2023, *JCAP*, 2023, 016
“The DESI One-Percent survey: exploring the Halo Occupation Distribution of Emission Line Galaxies with ABACUSSUMMIT simulations”
141. Sihan Yuan, et al. 2024, *MNRAS*, 530, 947
“The DESI One-Percent Survey: Exploring the Halo Occupation Distribution of Luminous Red Galaxies and Quasi-Stellar Objects with AbacusSummit”
140. DESI Collaboration 2024, *AJ*, 168, 58
“The Early Data Release of the Dark Energy Spectroscopic Instrument”
139. DESI Collaboration 2024, *AJ*, 167, 62
“Validation of the Scientific Program for the Dark Energy Spectroscopic Instrument”
138. Allyson Brodzeller, et al. 2023, *AJ*, 166, 66
“Performance of the Quasar Spectral Templates for the Dark Energy Spectroscopic Instrument”

137. Shiwu Zhang, Zheng Cai, Dandan Xu, Rhythm Shimakawa, Fabrizio Arrigoni Battaia, Jason Xavier Prochaska, Renyue Cen, **Zheng Zheng**, et al. 2023, *Science*, 380, 494
“Inspiring streams of enriched gas observed around a massive galaxy 11 billion years ago”
136. Satoshi Kikuta, Yuichi Matsuda, Shigeki Inoue, Charles Steidel, Renyue Cen, **Zheng Zheng**, et al. 2023, *ApJ*, 947, 75
“UV and Ly α halos of Ly α emitters across environments at $z = 2.84$ ”
135. Li Yang, **Zheng Zheng**, & T.-S. Kim 2023, *RAA*, 23, 045007
“Constraining the Temperature-Density Relation of the Inter-Galactic Medium from Analytically Modeling Lyman-alpha Forest Absorbers”
134. Xiaojing Lin, **Zheng Zheng**, & Zheng Cai 2022, *ApJS*, 262, 38
“Probing the Diffuse Lyman-alpha Emission on Cosmological Scales: Ly α Emission Intensity Mapping Using the Complete SDSS-IV eBOSS”
133. Xiaoju Xu, **Zheng Zheng**, & Qi Guo 2022, *MNRAS*, 516, 4276
“Conditional colour-magnitude distribution of central galaxies in galaxy formation models”
132. Callie Clontz, David Wake, & **Zheng Zheng** 2022, *MNRAS*, 515, 2224
“The H α luminosity and stellar mass dependent clustering of star-forming galaxies at $0.7 < z < 1.5$ with 3D-*HST*”
131. Li Yang, **Zheng Zheng**, Hélion du Mas des Bourboux, Kyle Dawson, Matthew M. Pieri, Graziano Rossi, Donald P. Schneider, Axel de la Macorra, & Adrean Muñoz Gutiérrez 2022, *ApJ*, 935, 121
“Metal Lines Associated with the Ly α Forest from eBOSS Data”
130. Tsevi Mazeh, et al. 2022, *MNRAS*, 517, 4005
“Probable Dormant Neutron Star in a Short-Period Binary System”
129. Di-Chang Chen, et al. 2022, *AJ*, 163, 249
“Planets Across Space and Time (PAST). III. Morphology of the Planetary Radius Valley as a Function of Stellar Age and Metallicity in the Galactic Context Revealed by the LAMOST-Gaia-Kepler Sample”
128. Abdurro’uf, et al. 2022, *ApJS*, 259, 35
“The Seventeenth Data Release of the Sloan Digital Sky Surveys: Complete Release of MaNGA, MaStar and APOGEE-2 Data”
127. Di-Chang Chen, et al. 2021, *AJ*, 162, 100
“Planets Across Space and Time (PAST). II: Catalog and Analyses of the LAMOST-Gaia-Kepler Stellar Kinematic Properties”
126. Kevin McCarthy, **Zheng Zheng**, Hong Guo, Wentao Luo, & Yen-Ting Lin 2022, *MNRAS*, 509, 380
“On the Constraints of Galaxy Assembly Bias in Velocity Space”
125. Di-Chang Chen, et al. 2021, *ApJ*, 909, 115
“Planets Across Space and Time (PAST). I. Characterizing the Memberships of Galactic Components and Stellar Ages: Revisiting the Kinematic Methods and Applying to Planet Host Stars”
124. Nakul Gangolli, Anson D’Aloisio, Fahad Nasir, & **Zheng Zheng** 2021, *MNRAS*, 501, 5294
“Constraining Reionization in Progress at $z=5.7$ with Lyman- α Emitters: Voids, Peaks, and Cosmic Variance”
123. Kevin McCarthy, **Zheng Zheng**, & Enrico Ramirez-Ruiz 2020, *MNRAS*, 499, 5220
“Constraining Delay Time Distribution of Binary Neutron Star Mergers from Host Galaxy Properties”

122. eBOSS Collaboration 2021, Phys. Rev. D, 103, 083533
“The Completed SDSS-IV extended Baryon Oscillation Spectroscopic Survey: Cosmological Implications from two Decades of Spectroscopic Surveys at the Apache Point Observatory”
121. Jifeng Liu, **Zheng Zheng**, Roberto Soria, et al. 2020, ApJ, 900, 1
“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, 4, 670
“Infalling Gas in a Lyman- α 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 α 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 α emitters from the BELLS GALLERY Survey”
117. R. Ahumada, et al. 2020, ApJS, 249, 3
“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 star–black-hole binary system from radial-velocity measurements”
115. Shiro Mukae, et al. 2020, ApJ, 896, 45
“3D Distribution Map of HI Gas and Galaxies Around an Enormous Ly α 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. 2021, ApJ, 907, 4
“The Breakdown Scale of H I Bias Linearity”
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- α 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 Distortions”
107. Rupert A.C. Croft, Jordi Miralda-Escudé, **Zheng Zheng**, Michael Blomqvist, & Matthew Pieri 2018, MNRAS, 481, 1320
“Intensity mapping with SDSS/BOSS Lyman- α emission, quasars and their Lyman- α 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- α 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 α 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 α 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
“The BOSS Emission-Line Lens Survey. III. : Strong Lensing of Ly α Emitters by Individual Galaxies”
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
“Modeling The Redshift-Space Three-Point Correlation Function in SDSS-III”
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
“Giant Sparks at Cosmological Distances?”
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
“The Tenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Apache Point Observatory Galactic Evolution Experiment”
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
“Cross-Correlation of SDSS DR7 Quasars and DR10 BOSS Galaxies: The Weak Luminosity Dependence of Quasar Clustering at $z \sim 0.5$ ”
62. Hong Guo, Idit Zehavi, **Zheng Zheng**, David H. Weinberg, et al. 2013, ApJ, 767, 122
“The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: Luminosity and Color Dependence and Redshift Evolution”
61. John K. Parejko, et al. 2013, MNRAS, 429, 98
“The Clustering of Galaxies in the SDSS-III Baryon Oscillation Spectroscopic Survey: the Low Redshift Sample”
60. Renyue Cen & **Zheng Zheng** 2013, ApJ, 775, 112
“Nature of Lyman Alpha Blobs: Powered by Extreme Starbursts”
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
“The Ninth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-III Baryon Oscillation Spectroscopic Survey”
57. Licai Deng, Heidi Jo Newberg, Chao Liu, Jeffrey L. Carlin, et al. 2012, RAA, 12, 735
“LAMOST Experiment for Galactic Understanding and Exploration (LEGUE) The survey’s science plan”
56. Jeffrey L. Carlin, Sebastien Lepine, Heidi Jo Newberg, Licai Deng, et al. 2012, RAA, 12, 755
“An Algorithm for Preferential Selection of Spectroscopic Targets in LEGUE”

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
“The Kinematics of Multiple-Peaked Ly α Emission in Star-Forming Galaxies at $z \sim 2 - 3$ ”
51. Chatterjee, S., DeGraf, C., Richardson, J., **Zheng, Z.**, Nagai, D., & Di Matteo, T. 2012, MNRAS, 419, 2657
“The Halo Occupation Distribution of Active Galactic Nuclei”
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
“The Halo Occupation Distribution of Black Holes: Dependence on Mass”
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
“Galaxy Clustering in the Completed SDSS Redshift Survey: The Dependence on Color and Luminosity”
45. **Zheng, Z.**, Cen, R., Trac, H., & Miralda-Escudé, J. 2011, ApJ, 726, 38
“Radiative Transfer Modeling of Lyman Alpha Emitters. II. New Effects in Galaxy Clustering”
44. **Zheng, Z.**, Cen, R., Trac, H., & Miralda-Escudé, J. 2010, ApJ, 716, 574
“Radiative Transfer Modeling of Lyman Alpha Emitters. I. Statistics of Spectra and Luminosity”
43. Kollmeier, K. A., **Zheng, Z.**, Davé, R., Gould, A., Katz, N., Miralda-Escudé, J., & Weinberg, D. H. 2010, ApJ, 708, 1048
“Lyman-alpha Emission From Cosmic Structure. I. Fluorescence”
42. Gong, Y., Wang, X., **Zheng, Z.**, & Chen X. L. 2010, RAA, 10, 107
“Primordial Non-Gaussianity from LAMOST Surveys”
41. Tinker, J. L., Wechsler, R. H., & **Zheng, Z.** 2010, ApJ, 709, 67
“Interpreting the Clustering of Distant Red Galaxies”
40. Wang, X., Chen, X. L., **Zheng, Z.**, Wu, F. Q., Zhang, P. J., & Zhao, Y. H. 2009, MNRAS, 394, 1775
“Forecasting the Dark Energy Measurement with Baryon Acoustic Oscillations: Prospects for the LAMOST surveys”
39. **Zheng, Z.**, Zehavi, I., Eisenstein, D. J., Weinberg, D. H., & Jing, Y. P. 2009, ApJ, 707, 554
“Halo Occupation Distribution Modeling of Clustering of Luminous Red Galaxies”
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
“A $z = 3$ Ly α Blob Associated with a Damped Ly α System Proximate to Its Background Quasar”
36. Brown, M. J. I., **Zheng, Z.**, White, M., Dey A., Jannuzi, B. T., et al. 2008, ApJ, 682, 937
“Red Galaxy Growth and the Halo Occupation Distribution”
35. Zu, Y., **Zheng, Z.**, Zhu, G. T., & Jing, Y. P. 2008, ApJ, 686, 41
“Environmental Effects on Real-Space and Redshift-Space Galaxy Clustering”
34. Chuzhoy, L., & **Zheng, Z.** 2007, ApJ, 670, 912
“Radiative Transfer Effect on Ultraviolet Pumping of the 21cm Line in the High Redshift Universe”
33. Zhang, L., Chen, X. L., Kamionkowski, M., Si, Z. G., & **Zheng, Z.** 2007, Phys. Rev. D, 76, 061301
“Constraints on Radiative Dark-Matter Decay from the Cosmic Microwave Background”
32. **Zheng, Z.**, Coil, A. L., & Zehavi, I. 2007, ApJ, 667, 760
“Galaxy Evolution from Halo Occupation Distribution Modeling of DEEP2 and SDSS Galaxy Clustering”
31. Yoo, J., Miralda-Escudé, J., Weinberg, D. H., **Zheng, Z.**, & Morgan, C. W. 2007, ApJ, 667, 813
“The Most Massive Black Holes in the Universe: Effects of Mergers in Massive Galaxy Clusters”
30. White, M., **Zheng, Z.**, Brown, M. J. I., Dey, A., & Jannuzi, B. T. 2007, ApJ, 655, 69
“Evidence for Merging or Disruption of Red Galaxies from the Evolution of Their Clustering”
29. Zhang, P., **Zheng, Z.**, & Cen, R. 2007, MNRAS, 382, 1087
“Lensing of 21cm Absorption Halos of $z \sim 20$ -30 First Galaxies”
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
“The Dependence of Occupation of Galaxies on Halo Formation Time”
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
“From Galaxy-Galaxy Lensing to Cosmological Parameters”
24. **Zheng, Z.**, & Ménard, B. 2005, ApJ, 635, 599
“Microlensing of Circumstellar Disks”
23. Eisenstein, D. J., Zehavi, I., Hogg, D. W., Scoccimarro, R., Blanton, M. R., Nichol, R. C., Scranton, R., Seo, H., Tegmark, M., **Zheng, Z.**, et al. 2005, ApJ, 633, 560
“Detection of the Baryon Acoustic Peak in the Large-Scale Correlation Function of SDSS Luminous Red Galaxies”
22. Tinker, J. L., Weinberg, D. H., & **Zheng, Z.** 2006, MNRAS, 368, 85
“Redshift-Space Distortions with the Halo Occupation Distribution I: Numerical Simulations”
21. Tinker, J. L., Weinberg, D. H., **Zheng, Z.**, & Zehavi, I. 2005, ApJ, 631, 41
“On the Mass-to-Light Ratio of Large Scale Structure”
20. Zehavi, I., **Zheng, Z.**, Weinberg, D. H., Frieman, J. A., Berlind, A. A., et al. 2005, ApJ, 630, 1
“The Luminosity and Color Dependence of the Galaxy Correlation Function”
19. **Zheng, Z.**, Berlind, A. A., Weinberg, D. H., Benson, A. J., Baugh, C. M., et al. 2005, ApJ, 633, 791
“Theoretical Models of the Halo Occupation Distribution: Separating Central and Satellite Galaxies”
18. Abazajian, K., **Zheng, Z.**, Zehavi, I., Weinberg, D. H., Frieman, J. A., et al. 2005, ApJ, 625, 613
“Cosmology and the Halo Occupation Distribution from Small-Scale Galaxy Clustering in the Sloan Digital Sky Survey”

17. **Zheng, Z.** 2004, ApJ, 614, 527
“Projected Three-Point Correlation Functions and Galaxy Bias”
16. **Zheng, Z.** 2004, ApJ, 610, 61
“Interpreting the Observed Clustering of Red Galaxies at $z \sim 3$ ”
15. Zehavi, I., Weinberg, D., **Zheng, Z.**, Berlind, A., Frieman, J., et al. 2004, ApJ, 608, 16
“On Departures from a Power Law in the Galaxy Correlation Function”
14. **Zheng, Z.**, Flynn, C., Gould, A., Bahcall, J. N., & Salim, S. 2004, ApJ, 601, 500
“M Dwarfs from Hubble Space Telescope Star Counts. V. The I-Band Luminosity Function”
13. Wu, Hong, et al. 2002, AJ, 123, 1364
“Intermediate-Band Surface Photometry of the Edge-on Galaxy NGC 4565”
12. **Zheng, Z.**, & Miralda-Escudé, J. 2002, ApJ, 578, 33
“Monte Carlo Simulation of Lyman Alpha Scattering and Application to Damped Lyman Alpha Systems”
11. **Zheng, Z.**, Tinker, J. L., Weinberg, D. H., & Berlind, A. A. 2002, ApJ, 575, 617
“Do Distinct Cosmological Models Predict Degenerate Halo Populations?”
10. **Zheng Z.**, & Miralda-Escudé, J. 2002, ApJ, 568, L71
“Self-shielding Effects on the Column Density Distribution of Damped Lyman Alpha Systems”
9. Shemmer, O., et al. 2001, ApJ, 561, 162
“Multiwavelength Monitoring of the Narrow-Line Seyfert 1 Galaxy Arakelian 564. III. Optical Observations and the Optical-UV-X-Ray Connection”
8. **Zheng, Z.**, Flynn, C., Gould, A., Bahcall, J. N., & Salim, S. 2001, ApJ, 555, 393
“M Dwarfs from Hubble Space Telescope Star Counts. IV.”
7. **Zheng, Z.**, & Gould, A. 2000, ApJ, 541, 728
“Superluminal Caustics of Close, Rapidly-Rotating Binary Microlenses”
6. Kong, Xu, et al. 2000, AJ, 119, 2745
“Spatially Resolved Spectrophotometry of M81: Age, Metallicity, and Reddening Maps”
5. Yan, Haojing, et al. 2000, PASP, 112, 691
“Calibration of the BATC Survey: Methodology and Accuracy”
4. **Zheng, Z.**, Wu, H., Mao, S., Xia, X.-Y., Deng Z.-G., & Zou, Z.-L. 1999, A&A, 349, 735
“An HST Surface Photometric Study of Ultraluminous Infrared Galaxies”
3. Zheng, Zhongyuan, et al. 1999, AJ, 117, 2757
“Deep Intermediate-Band Surface Photometry of NGC 5907”
2. Xia, X.-Y., Mao, S., Wu, H., **Zheng, Z.**, Böller, Th., Deng, Z.-G., & Zou, Z.-L. 1999, A&A, 341, L13
“Ultraluminous IRAS Galaxy 10026+4347”
1. **Zheng, Z.**, Zhang, B., & Qiao, G. J. 1998, A&A, 334, L49
“Is Gamma-ray Absorption by Induced Electric Fields Important in the Pulsar Magnetospheres?”

Other Publications

12. **Zheng Zheng** 2024, [WeChat Official Account NAOC-Beijing \(National Astronomical Observatories, Chinese Academy of Sciences\)](#), “Legend of Zeldovich” (in Chinese)
11. **Zheng Zheng** 2022, [Science Communication Media WeChat Official Account mrsience100](#), “Miraculous Connections in Clauser’s Career: From Astronomy Research to Nobel Prize in Quantum Physics” (in Chinese)
10. **Zheng Zheng** 2022, SCPMA, 65, 109831
“The power of the constrained – Unbiased and stringent constraints of galaxy assembly bias”
9. Jeremy Tinker & **Zheng Zheng** 2021, [DESI Education & Outreach Blog Post](#), “Congratulations to David Weinberg”
8. **Zheng, Z.** & Zhang, P.J. 2020, [Physics](#), 49(1), 8–16 (also in [WeChat Official Account SJTU_PA](#)), “Peebles’ Physical Universe” (in Chinese)
7. **Zheng Zheng** 2020, [Science Communication Media WeChat Official Account mrsience100](#), “Dyson, Dyson Sphere, and Extraterrestrial Civilizations” (in Chinese)
6. Cooray, A., et al. 2019, Astro2020: Decadal Survey on Astronomy and Astrophysics, APC white papers, no. 23; Bulletin of the American Astronomical Society, Vol. 51, Issue 7, id. 23 (arXiv:1903.03144), “Cosmic Dawn Intensity Mapper”
5. Chang, T.-C., et al. 2019, Astro2020: Decadal Survey on Astronomy and Astrophysics, science white papers, no. 282; Bulletin of the American Astronomical Society, Vol. 51, Issue 3, id. 282 (arXiv:1903.11744), “Tomography of the Cosmic Dawn and Reionization Eras with Multiple Tracers”
4. Cooray, A., et al. 2019, Astro2020: Decadal Survey on Astronomy and Astrophysics, science white papers, no. 48; Bulletin of the American Astronomical Society, Vol. 51, Issue 3, id. 48 (arXiv:1903.03629), “Cosmic Dawn and Reionization: Astrophysics in the Final Frontier”
3. Stanford, S.A., et al. 2009, Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers, no. 285, “Galaxy Evolution Studies with Deep, Wide-field, Near-Infrared Surveys”
2. Zakamska, N., et al. 2009, Astro2010: The Astronomy and Astrophysics Decadal Survey, Position Papers, no. 69 (arXiv:0905.1986), “Challenges Facing Young Astrophysicists”
1. Deng, L.C., et al. 1998, Minor Planet Electronic Circ., No.1998-A08, “1997 YM3”