

Refereed Publications of Xiaohui Fan

- 169** High-Redshift SDSS Quasars with Weak Emission Lines, A. M. Diamond-Stanic, **X. Fan** et al., 2009, ApJ, in press (astro-ph/0904.2181)
- 168** A Survey of $z \sim 6$ Quasars in the SDSS Deep Stripe. II. Discovery of Six Quasars at $z_{AB} > 21$, L. Jiang, **X. Fan**, et al., 2009, AJ, in press (astro-ph/0905.4126)
- 167** The Seventh Data Release of the Sloan Digital Sky Survey, K. N. Abazajian et al., 2009, ApJS, 182, 543
- 166** Quasar Clustering from SDSS DR5: Dependences on Physical Properties, Y. Shen, et al., 2009, ApJ, 697, 1656
- 165** X-Ray Insights into the Nature of Weak Emission-Line Quasars at High Redshift, O. Shemmer et al., 2009, ApJ, 696, 580
- 164** SPACE: the spectroscopic all-sky cosmic explorer, A. Cimatti et al., 2009, Experimental Astronomy, 23, 39
- 163** Determining Quasar Black Hole Mass Functions from their Broad Emission Lines: Application to the Bright Quasar Survey, K. C. Kelly. M. Vestergaard, **X. Fan**, 2009, ApJ, 692, 1388
- 162** A Catalog of Broad Absorption Line Quasars in Sloan Digital Sky Survey Data Release 5, R. R. Gibson et al., 2009, ApJ, 692, 758
- 161** Thermal Emission from Warm Dust in the Most Distant Quasars, R. Wang et al., 2008, ApJ, 687, 848
- 160** Improved Cosmological Constraints from New, Old, and Combined Supernova Data Sets M. Kowalski et al., 2008, ApJ, 686, 749
- 159** Observations of the Gas Reservoir around a Star-Forming Galaxy in the Early Universe, B. L. Frye, D. V. Bowen, M. Huley, T. M. Tripp, **X. Fan**, P. Guhathakurta, D. Coe, T. Broadhurst, E. Egama, G. Meylan, 2008, ApJ, 685, L5
- 158** The Rapidly Flaring Afterglow of the Very Bright and Energetic GRB 070125, A. C. Updike, et al., 2008, ApJ, 685, 361
- 157** Go Long, Go Deep: Finding Optical Jet Breaks for Swift-Era GRBs with the LBT, X. Dai, et al., 2008, 682, L77
- 156** Luminosity Function Constraints on the Evolution of Massive Red Galaxies since $z \sim 0.9$, R. J. Cool, D. J. Eisenstein, **X. Fan**, M. Fukugita, L. Jiang, C. Maraston, A. Meiksin, D. P. Schneider, & D. A. Wake, 2008, ApJ, 682, 919
- 155** A Flexible Method of Estimating Luminosity Functions, B. C. Kelly, **X. Fan**, M. Vestergaard, 2008, ApJ, 682, 874

- 154 A Molecular Probe of Dark Energy, R. I. Thompson, J. Bechtold, D. Eisenstein, **X. Fan**, D. Arnett, C. Martins, R. Kennicutt, J. Black, 2008, *AdSpR*, 42, 596
- 153 A Sample of Quasars with Strong Nitrogen Emission Lines from the Sloan Digital Sky Survey, L. Jiang, **X. Fan**, M. Vestergaard, 2008, *ApJ*, 679, 962
152. A Sample of Quasars with Strong Nitrogen Emission Lines from the Sloan Digital Sky Survey, L. Jiang, **X. Fan**, M. Vestergaard, 2008, *ApJ*, 679, 962
151. Modeling the Dust Properties of $z \sim 6$ Quasars with ART² – All-wavelength Radiative Transfer with Adaptive Refinement Tree, Y. Li, et al. 2008, *ApJ*, 678, 41
150. Mass Functions of the Active Black Holes in Distant Quasars from the Sloan Digital Sky Survey Data Release 3, M. Vestergaard, **X. Fan**, C. A. Tremonti, P. S. Osmer, G. T. Richards, 2008, *ApJ*, 674, 1
149. Four faint T dwarfs from the UKIRT Infrared Deep Sky Survey (UKIDSS) Southern Stripe, K. Chiu, et al., 2008, *MNRAS*, 385, 53
148. Sharc-II 350 μm Observations of Thermal Emission from Warm Dust in $z \geq 5$ Quasars, R. Wang, et al., 2008, *AJ*, 135, 1201
147. The Sixth Data Release of the Sloan Digital Sky Survey, J. K. Adelman-McCarthy et al., 2008, *ApJS*, 175, 297
146. Glimpsing Through the High Redshift Neutral Hydrogen Fog, S. Gallerani, A. Ferrara, **X. Fan**, T. R. Choudhury, 2008, *MNRAS*, 386, 359
145. A Survey of $z \sim 6$ Quasars in the SDSS Deep Stripe: I. a Flux-Limited Sample at $z_{AB} < 21$, L. Jiang, **X. Fan** et al., *AJ*, 2008, 135, 1057
144. Black hole masses and enrichment of $z \sim 6$ SDSS quasars, J. D. Kurk, F. Walter, **X. Fan** et al., 2007. *ApJ*, 669, 32
143. The Fifth Data Release of the Sloan Digital Sky Survey, J. K. Adelman-McCarthy et al., 2007, *ApJS*, 172, 634
142. Detection of $1.6 \times 10^{10} M_{\odot}$ of Molecular Gas in the Host Galaxy of the $z = 5.77$ SDSS Quasar J0927+2001, Carilli, C. L., et al., 2007, *ApJ*, 666, L9
141. Gemini Near-Infrared Spectroscopy of Luminous $z \sim 6$ Quasars: Chemical Abundances, Black Holes Masses, and MgII Absorptions, L. Jiang, **X. Fan**, M. Vestergaard, J. D. Kurk, F. Walter, B. C. Kelly, and M. A. Strauss, 2007, *AJ*, 134, 1150
140. Evidence for a $z < 8$ Origin of the Source Subtracted Near Infrared Background, R. I. Thompson, D. Eisenstein, **X. Fan**, M. Rieke, R. C. Kennicutt, 2007, *ApJ*, 666, 658
139. Millimeter and Radio Observations of $z \sim 6$ Quasars, Wang, R. et al., 2007, *AJ*, 134, 617
138. The Sloan Digital Sky Survey Quasar Catalog. IV. Fifth Data Release, D. P. Schneider et al., 2007, *AJ*, 134, 102

137. Clustering of High Redshift $z \geq 2.9$ Quasars from the Sloan Digital Sky Survey, Shen, Y., et al. 2007, AJ, 133, 2222
136. Constraints on the Cosmic Near Infrared Background Excess from NICMOS Deep Field Observations, Thompson, R. I., Eisenstein, D., **Fan, X.**, Rieke, M., & Kennicutt, R. C., 2007, ApJ, 657, 669
135. The Radio-Loud Fraction of Quasars is a Strong Function of Redshift and Optical Luminosity, L. Jiang, **X. Fan** et al., 2007, ApJ, 656, 680
134. Physical parameters of two very cool T dwarfs, D. Saumon, M.S. Marley, S.K. Leggett, T.R. Geballe, D. Stephens, D.A. Golimowski, M.C. Cushing, **X. Fan**, J.T. Rayner, K. Lodders, R.S. Freedman, 2007, ApJ, 656, 1136
133. 3.6-7.9 μm Photometry of L and T Dwarfs and the Prevalence of Vertical Mixing in their Atmospheres, S. K. Leggett, D. Saumon, M. S. Marley, T. R. Geballe, D. A. Golimowski, D. Stephens, **X. Fan**, 2007, ApJ, 655, 1079
132. Evolution of High-redshift Quasars, **X. Fan**, 2006, New Astronomy Review, 50, 665
131. Probing the Evolution of Infrared Properties of $z \sim 6$ Quasars: Spitzer Observations, L. Jiang, **X. Fan** et al., 2006, AJ, 132, 2127
130. SDSS J1534+1615AB: A Novel T Dwarf Binary Found with Keck Laser Guide Star Adaptive Optics and the Potential Role of Binarity in the L/T Transition, M. C. Liu, S. K. Leggett, D. A. Golimowski, K. Chiu, **X. Fan**, T. R. Geballe, D. P. Schneider, & J. Brinkmann, 2006, ApJ, 647, 1393
129. Star Formation History of the Hubble Ultra Deep Field: Comparison with the Hubble Deep Field-North, R. I. Thompson, D. Eisenstein, **X. Fan**, M. Dickinson, G. Illinworth, R. C. Kennicutt, 2006, ApJ, 647, 787
128. The Discovery of Three New $z > 5$ Quasars in the AGN and Galaxy Evolution Survey, R. Cool, et al., 2006, AJ, 132, 823
127. Spitzer Observations of High-Redshift QSOs, D. C. Hines, O. Krause, G. H. Rieke, **X. Fan**, M. Blaylock, and G. Neugebauer, 2006, ApJ, 641, L85
126. Cosmic Reionization Redux, N. Y. Gnedin and **X. Fan**, 2006, ApJ, 648, 1
125. Quasars Probing Quasars I: Optically Thick Absorbers Near Luminous Quasars, J. F. Hennawi et al., 2006, ApJ, 651, 61
124. Chandra Observations of the Highest Redshift Quasars from the Sloan Digital Sky Survey, O. Shemmer, W. N. Brandt, D. P. Schneider, **X. Fan**, M. A. Strauss, A. M. Diamond-Stanic, G. T. Richards, S. F. Anderson, J. E. Gunn, J. Brinkmann, 2006, ApJ, 644, 86
123. Catalog of Broad Absorption Line Quasars from the Sloan Digital Sky Survey Third Data Release, J. R. Trump et al., 2006, ApJS, 165, 1

122. Observational Constraints on Cosmic Reionization, **X. Fan**, C. L. Carilli, B. Keating, 2006, ARAA, 44, 415
121. Spectral Energy Distributions and Multiwavelength Selection of Type 1 Quasar, G. T. Richards, et al. 2006, ApJS, 166, 470
120. An MMT Hectospec Redshift Survey of 24 m Sources in the Spitzer First Look Survey, C. Papovich, R. Cool, D. Eisenstein, E. Le Floch, **X. Fan**, R. C. Kennicutt, J.-T. Smith, G. H. Rieke and M. Vestergaard, 2006, AJ, 132, 231
119. A Spectroscopic Survey of Faint Quasars in the SDSS Deep Stripe: I. Preliminary Results from the Co-added Catalog, L. Jiang, **X. Fan**, R. J. Cool, D. J. Eisenstein, I. Zehavi, G. T. Richards, R. Scranton, D. Johnston, M. A. Strauss, D. P. Schneider, J. Brinkmann, 2006, AJ, 131, 2788
118. The SDSS Quasar Survey: Quasar Luminosity Function from Data Release Three, G. T. Richards, M. A. Strauss, **X. Fan**, P. B. Hall, S. Jester, D. P. Schneider, D. E. Vanden Berk, C. Stoughton et al., 2006, AJ, 131, 2766
117. Constraining the Evolution of the Ionizing Background and the Epoch of Reionization with $z \sim 6$ Quasars II: A Sample of 19 Quasars, **X. Fan**, M. A. Strauss, R. H. Becker, R. L. White, J. E. Gunn, G. R. Knapp, G. T. Richards, D. P. Schneider, J. Brinkmann and M. Fukugita, 2006, AJ, 132, 117
116. A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey IV: Discovery of Seven Additional Quasars, **X. Fan**, M. A. Strauss, G. T. Richards, J. F. Hennawi, R. H. Becker, R. L. White et al., 2006, AJ, 131, 1203
115. Seventy New L and T Dwarfs from the Sloan Digital Sky Survey, K. Chiu, **X. Fan**, S. K. Leggett, W. Zheng, T. R. Geballe, D. A. Golimowski et al., 2006, AJ, 131, 2722
114. Binary Quasars in the Sloan Digital Sky Survey: Evidence for excess Clustering on Small Scales, J. F. Hennawi, et al. 2006, AJ, 131, 1
113. The Fourth Data Release of the Sloan Digital Sky Survey, J. K. Adelman-McCarthy et al. 2006, ApJS, 162, 38
112. Snapshot Survey for Gravitational Lenses Among $z \geq 4.0$ Quasars: II. Constraints on the $4.0 < z < 4.5$ Quasar Population, G. T. Richards, et al. 2006, AJ, 131, 49
111. Spectroscopic Observations and Analysis of the Unusual Type Ia SN 1999ac, G. Garavini, et al., 2005, AJ, 130, 2278
110. The X-Ray Spectral Properties and Variability of Luminous High-Redshift, O. Shemmer, W. N. Brandt, C. Vignalo, D. P. Schneider, **X. Fan**, G. T. Richards, & M. A. Strauss, 2005, ApJ, 630, 729
109. Large-Scale Clustering of Sloan Digital Sky Survey Quasars: Impact of the Baryon Density and the Cosmological Constant, K. Yahata, et al. 2005, PASJ, 57, 529

108. The Sloan Digital Sky Survey Quasar Catalog. III. Third Data Release, D. P. Schneider, et al. 2005, AJ, 130, 367
107. The 2dF-SDSS LRG and QSO (2SLAQ) Survey: the $z < 2.1$ Quasar Luminosity Function from 5645 Quasars to $g = 21.85$, R. T. Richards, et al. 2005, MNRAS, 360, 839
106. The Near-Infrared Camera and Multi-Object Spectrometer Ultra Deep Field: Observations, Data Reduction, and Galax Photometry, R. I. Thompson, et al. 2005, AJ, 130, 1
105. An Empirical Calibration of the Completeness of the SDSS Quasar Survey, D. E. Vanden Berk, et al. 2005, AJ, 129, 2047
104. Active Galactic Nuclei in the Sloan Digital Sky Survey II: Emission-Line Luminosity Function, L. Hao, M. A., Strauss, **X. Fan**, et al., 2005, AJ, 129, 1795
103. Active Galactic Nuclei in the Sloan Digital Sky Survey I: Sample Selection, L. Hao, et al. 2005, AJ, 129, 1783
102. Hubble Advanced Camera for Surveys Observations of the $z=6.42$ Quasar SDSS 148+5251: A Leak in the Gunn-Peterson Trough, R. L. White, R. H. Becker, **X. Fan**, M. A. Strauss, 2005, AJ, 129. 2102
101. The Third Data Release of the Sloan Digital Sky Survey, K. Abazajian et al. 2005, 129, 1755
100. Efficient Photometric Selection of Quasars from the Sloan Digital Sky Survey: 100,000 $z < 3$ Quasars from Data Release One, G. T. Richards et al. 2004, ApJS, 155, 257
99. Sloan Digital Sky Survey Imaging of Low Galactic Latitude Fields: Technical Summary and Data Release, Finkbeiner, D. P. et al. 2004, AJ, 128. 2577
98. Resolved Molecular Gas in a Quasar Host Galaxy at Redshift $z=6.42$, F. Walter, C. Carilli, F. Bertoldi, K. Menten, P. Cox, K. Y. Lo, **X. Fan**, M. A. Strauss 2004, ApJ, 615, L17
97. Galaxies at $z \sim 7 - 8$: z -dropouts in the Hubble Ultra Deep Field, R. J. Bouwens, R. I. Thompson, G. D. Illingworth, M. Franx, P. van Dokkum, **X. Fan**, M. E. Dickinson, D. J. Eisenstein, M. J. Rieke 2004, ApJ, 616, L79
96. Radio continuum imaging of FIR luminous QSOs at $z > 6$, C. L. Carilli, F. Walter, F. Bertoldi, K. M. Menten, **X. Fan**, G. R. Lewis, M. A. Strauss, P. Cox, A. Beelen, A. Omont, N. Mohan, 2004, AJ, 128, 997
95. Type Ia supernova rate at a redshift of ~ 0.1 , G. Blanc et al. 2004, A&A, 423, 881
94. A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey III: Discovery of Five Additional Quasars, **X. Fan**, J. F. Hennawi, G. T. Richards, M. A. Strauss, D. P. Schneider, J. L. Donley, J. E. Young, J. Annis, H. Lin, H. Lampeitl, R. H. Lupton, J. E. Gunn, G. R. Knapp et al. 2004, AJ, 128, 515
93. Spectroscopic Observations and Analysis of the Peculiar SN 1999aa, G. Garavini et al. 2004, AJ, 128, 387

92. The Second Data Release of the Sloan Digital Sky Survey, K. Abazajian et al. (the SDSS Collaboration), 2004, AJ, 128, 502
91. A Second Stellar Color Locus: a Bridge from White Dwarfs to M stars, V. Smolcic, Z. Ivezić, G.R. Knapp, R.H. Lupton, K. Pavlovski, S. Ilijic, D. Schlegel, J.A. Smith, P.M. McGehee, N.M. Silvestri, S.L. Hawley, C. Rockosi, J.E. Gunn, M.A. Strauss, **X. Fan**, D. Eisenstein, H. Harris, 2004, ApJ, 615, L141
90. Star Formation at $z \sim 6$: The UDF-Parallel ACS Fields, R.J. Bouwens, G.D. Illingworth, R.I. Thompson, J.P. Blakeslee, M.E. Dickinson, T.J. Broadhurst, D.J. Eisenstein, **X. Fan**, M. Franx, G. Meurer, P. van Dokkum, 2004, ApJ, 606, L25
89. L' and M' Photometry of Ultracool Dwarfs, D. A. Golimowski, S. K. Leggett, M. S. Marley, **X. Fan**, T. R. Geballe, G. R. Knapp et al., 2004, AJ, 127, 3516
88. Near-Infrared Photometry and Spectroscopy of L and T Dwarfs: the Effects of Temperature, Clouds, and Gravity, G. R. Knapp, S. K. Leggett, **X. Fan**, M. S. Marley, T. R. Geballe, D. A. Golimowski, et al., 2004, AJ, 127, 3553
87. Preliminary Parallaxes of 40 L and T Dwarfs from the U.S. Naval Observatory Infrared Astrometry Program, F. J. Vrba et al., 2004, AJ, 127, 2948
86. Snapshot Survey for Gravitational Lenses Among $z \gtrsim 4.0$ Quasars: I. The $z > 5.7$ Sample, G. T. Richards, M. A. Strauss, B. Pindor, Z. Haiman, **X. Fan**, D. Eisenstein, D. P. Schneider, N. A. Bahcall, J. Brinkmann and R. Brunner, 2004, AJ, 127, 1305
85. The Chandra Multiwavelength Project: Optical Followup of Serendipitous Chandra Sources, P. J. Green et al. 2004, ApJS, 150, 43
84. Continuum and Emission Line Properties of Broad Absorption Line Quasars, T. A. Reichard, G. T. Richards, P. B. Hall, D. P. Schneider, D. E. Vanden Berk, **X. Fan**, D. G. York, G. R. Knapp and J. Brinkmann, 2003, AJ, 126, 2594
83. Combining WMAP and SDSS Quasar Data on Reionization Constrains Cosmological Parameters and the Star Formation Efficiency, W. A. Chiu, **X. Fan** and J. P. Ostriker, 2003, ApJ, 499, 759
82. The Sloan Digital Sky Survey Quasar Catalog II. First Data Release, D. P. Schneider, **X. Fan**, P. B. Hall, S. Jester, G. T. Richards, C. Stoughton, M. A. Strauss, M. SubbaRao, D. E. Vanden Berk et al., 2003, AJ, 126, 2579
81. The First Data Release of the Sloan Digital Sky Survey, K. Abazajian et al. 2003, AJ, 126, 2018
80. SDSS White Dwarfs with Spectra Showing Atomic Oxygen and/or Carbon Lines, J. Liebert et al., 2003, AJ, 126, 2521
79. A Large, Uniform Sample of X-ray Emitting AGN: Selection Approach and an Initial Catalog from the ROSAT All-Sky and Sloan Digital Sky Surveys, S. F. Anderson et al. 2003, AJ, 126, 2209

78. The near-IR properties and continuum shapes of high redshift quasars from the Sloan Digital Sky Survey, L. Penttericci, H. W. Rix, F. Prada, **X. Fan**, M. A. Strauss, D. P. Schneider, E. K. Grebel, D. Harbeck, J. Brinkmann, V. K. Narayanan, 2003 A&A, 410, 75
77. High-excitation CO in a quasar host galaxy at $z=6.42$, F. Bertoldi, P. Cox, R. Neri, C.L. Carilli, F. Walter, A. Omont, A. Beelen, C. Henkel, **X. Fan**, M. A. Strauss, and K.M. Menten, 2003, A&A, 409, 47
76. Molecular Gas in the Host Galaxy of a Quasar at Redshift $z=6.42$, F. Walter, F. Bertoldi, C. Carilli, P. Cox, K. Y. Lo, R. Neri, **X. Fan**, A. Omont, M. A. Strauss, K. M. Menten, 2003, Nature, 424, 406
75. The C IV Mass Density of the Universe at Redshift 5, M. Pettini, P. Madau, M. Bolte, J. X. Prochaska, S. L. Ellison, and **X. Fan**, 2003, ApJ, 594, 695
74. An Initial Survey of White Dwarfs in the Sloan Digital Sky Survey, H. C. Harris et al., 2003, AJ, 123, 1023
73. Red and Reddened Quasars in the Sloan Digital Sky Survey, G. T. Richards, et al.. 2003, AJ, in press
72. Black Holes at the Cosmic Dawn, **X. Fan**, 2003, Science, 300, 752
71. Dust Emission from the Most Distant Quasars, F. Bertoldi, C.L. Carilli, P. Cox, **X. Fan**, M.A. Strauss, A. Beelen, A. Omont, R. Zylka, 2003, A&A Letters, 406, L55
70. VLT+UVES Spectroscopy of the CaII LoBAL Quasar SDSS 0300+0048, P. B. Hall, D. Hutsemekers, S. F. Anderson, J. Brinkmann, **X. Fan**, D. P. Schneider, D. G. York, 2003, ApJ, 593, 189
69. Sensitive observations at 1.4 and 250 GHz of $z > 5$ QSOs, A. O. Petric, C. L. Carilli, F. Bertoldi, **X. Fan**, P. Cox, M. A. Strauss, A. Omont, Donald P. Schneider, 2003, AJ, 126, 15
68. Probing the Ionization State of the Universe at $z > 6$, R. L. White, R. H. Becker, **X. Fan** , M. A. Strauss, 2003, AJ, 126, 1
67. Chandra and XMM-Newton Observations of the First Quasars: X-rays from the Age of Cosmic Enlightenment, C. Vignali, W. N. Brandt, D. P. Schneider, S. F. Anderson, **X. Fan** , J. E. Gunn, G. T. Richards, and M. A. Strauss, 2003, AJ, 125, 2876
66. A Survey of $z > 5.7$ Quasars in the Sloan Digital Sky Survey II: Discovery of Three Additional Quasars at $z > 6$, **X. Fan**, M. A. Strauss, D. P. Schneider, R. H. Becker, R. L. White, Z. Haiman, M. Gregg, L. Pentericci, E. K. Grebel, et al. 2003, AJ, 125, 1649
65. Two Rare Magnetic Cataclysmic Variables with Extreme Cyclotron Features Identified in the Sloan Digital Sky Survey, P. Szkody et al. 2003, ApJ, 583, 902
64. Optical and Radio Properties of Extragalactic Sources Observed by the FIRST Survey and the Sloan Digital Sky Survey, Z. Ivezić et al. 2002, AJ, 124, 2364

63. Unusual Broad Absorption Line Quasars from the Sloan Digital Sky Survey, P. B. Hall, S. F. Anderson, M. A. Strauss, D. G. York, G. T. Richards, **X. Fan**, G. R. Knapp, D. P. Schneider, D. E. Vanden Berk, T. R. Geballe, et al. 2002, ApJS, 141, 267 – 309
62. Comparison of Positions and Magnitudes of Asteroids Observed in the Sloan Digital Sky Survey with Those Predicted for Known Asteroids, M. Juric, Z. Ivezić, R. H. Lupton, T. Quinn, S. Tabachnik, **X. Fan**, J. E. Gunn, G.S. Hennessy, G. R. Knapp, J. A. Munn, J. R. Pier, C. M. Rockosi, D. P. Schneider, J. Brinkmann, I. Csabai, M. Fukugita, 2002, AJ, 124, 1776
61. Faint High Latitude Carbon Stars Discovered by the Sloan Digital Sky Survey: Methods and Initial Result, B. Margon, S. F. Anderson, H. C. Harris, M. A. Strauss, G. R. Knapp, **X. Fan**, D. P. Schneider, D. E. Vanden Berk, et al, AJ, 124, 1651 – 1669
60. An FeLoBAL Binary Quasar, M. D. Gregg, M. D., R. H. Becker, R. L. White, G. T. Richards, F. H. Chaffee, & **X. Fan**, ApJ, 573, L85 - 88
59. Characterization of M,L and T dwarfs in the Sloan Digital Sky Survey, S. L Hawley, K. R. Covey, G. R. Knapp, D. A. Golimowski, **X. Fan**, et al., 2002, AJ, 123, 3409 – 3427
58. Spectroscopic Target Selection in the Sloan Digital Sky Survey: The Quasar Sample, G. T. Richards, **X. Fan**, H. J. Newberg, M. A. Strauss, D. E. Vanden Berk, D. P. Schneider, B. Yanny et al., 2002, AJ, 123, 2945 – 2975
57. Exploratory Chandra Observations of the Three Highest Redshift Quasars Known, W.N. Brandt, D.P. Schneider, **X. Fan**, M.A. Strauss, J.E. Gunn, G.T. Richards et al., 2002, ApJ Letters, 569, L5 – L8
56. VLT observations of the $z=6.28$ quasar SDSS 1030+0524, L.Pentericci, **X. Fan**, H.W. Rix, M.A. Strauss, V. K. Narayanan, et al., 2002, AJ, 123, 2151 – 2158
55. Constraining the Evolution of the Ionizing Background and the Epoch of Reionization with $z \sim 6$ Quasars, **X. Fan**, V. K. Narayanan, M. A. Strauss, R. L. White, R. H. Becker, L. Pentericci, & H. Rix, 2002, AJ, 123, 1247 – 1257
54. Intermediate-Band Surface Photometry of the Edge-on Galaxy NGC 4565, H. Wu. et al., AJ, 2002, 123, 1364 – 1380
53. Clouds and Chemistry: Ultracool Dwarf Atmospheric Properties from Optical and Infrared Colors, M. S. Marley, S. Seager, D. Saumon, K. Lodders, A. S. Ackerman, S. Freeman, & **X. Fan**, 2002, ApJ, 568, 335 – 342
52. The Sloan Digital Sky Survey Quasar Catalog I. Early Data Release, D. P. Schneider, G. T. Richards, **X. Fan**, P. B. Hall, M. A. Strauss, D. E. Vanden Berk et al., 2002, AJ, 123, 567 – 577
51. L Dwarfs Found in Sloan Digital Sky Survey Commissioning Data II. Hobby-Eberly Telescope Observations, D. P. Schneider, S. Hamely, G. R. Knapp, K. Vovey, **X. Fan**, et al., 2002, AJ, 123, 467 – 477

50. Sloan Digital Sky Survey: Early Data Release, C. Stoughton et al. 2002, *AJ*, 123, 485 – 548
49. Towards Spectral Classification of L and T Dwarfs: Infrared and Optical Spectroscopy and Analysis, T. R. Geballe, G. R. Knapp, S. K. Leggett, **X. Fan**, D. A. Golimowski et al., 2002, *ApJ*, 564, 466 – 481
48. Infrared Photometry of Late-M, L, and T Dwarfs, S. K. Leggett, D. A. Golimowski, **X. Fan**, T. R. Geballe, G. R. Knapp, 2002, *ApJ*, 564, 452 – 465
47. Evidence for Reionization at $z \sim 6$: Detection of a Gunn-Peterson Trough in a $z=6.28$ Quasar, R. H. Becker, **X. Fan**, R. L. White, M. A. Strauss, V. K. Narayanan et al., 2001, *AJ*, 122, 2850 – 2858
46. Survey of $z > 5.8$ Quasars in the Sloan Digital Sky Survey I: Discovery of Three New Quasars and the Spatial Density of Luminous Quasars at $z \sim 6$, **X. Fan**, V. K. Narayanan, R. H. Lupton, M. A. Strauss et al., 2001, *AJ*, 122, 2833 – 2849
45. Exploratory Chandra Observations of the Highest-Redshift Quasars: X-rays from the Dawn of the Modern Universe, C. Vignali, W. N. Brandt, **X. Fan**, J. E. Gunn, S. Kaspi, D. P. Schneider, & M. A. Strauss, 2001, *AJ*, 122, 2143 – 2155
44. Photometric Redshifts of Quasars, G. T. Richards, M. Weinstein, D. P. Schneider, **X. Fan**, M. A. Strauss, D. Vanden Berk et al., 2001, *AJ*, 122, 1151 – 1162
43. Solar System Objects Observed in the Sloan Digital Sky Survey Commissioning Data, Z. Ivezić, et al., 2001, *AJ*, 122, 2749 – 2784
42. A 250 GHz Survey of High Redshift QSOs from the Sloan Digital Sky Survey, C. L. Carilli, F. Bertoldi, M. Rupen, **X. Fan**, M. A. Strauss, K. M. Menten, E. Kreysa, D. P. Schneider, A. Bertarini, M. S. Yun, & R. Zylka, 2001, *ApJ*, 555, 625 – 632
41. High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data VI. Sloan Digital Sky Survey Spectrograph Observations, S. F. Anderson, **X. Fan**, et al., 2001, *AJ*, 122, 503 – 517
40. J-Band Spectroscopy of the $z = 5.74$ BAL QSO SDSSp J104433.04-012502.2, R. W. Goodrich, et al. 2001, *ApJ Letters*, 561, L23 – 26
39. Broad Absorption Line Quasars in the Sloan Digital Sky Survey with VLA-FIRST Radio Detections, K. Menou, et al., 2001, *ApJ*, 561, 645
38. Composite Quasar Spectra from the Sloan Digital Sky Survey, D. E. Vanden Berk, et al., 2001, *AJ*, 122 549
37. Colors of 2625 Quasars at $0 < z < 5$ Measured in the Sloan Digital Sky Survey Photometric System, G. T. Richards, **X. Fan**, et al., 2001, *AJ*, 121, 2308
36. High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data V. Hobby-Eberly Telescope Observations, D. P. Schneider, **X. Fan**, et al., 2001, *AJ*, 121, 1232

- *35. High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data IV: Luminosity Function from the Fall Equatorial Stripe Sample, **X. Fan**, et al., 2001, AJ, 121, 31
- *34. High-Redshift Quasars Found in Sloan Digital Sky Survey Commissioning Data III: A Color Selected Sample at $i^* < 20$ in the Fall Equatorial Stripe, **X. Fan**, et al., 2001, AJ, 121, 54
- 33. An XMM-Newton Detection of the $z = 5.80$ X-ray Weak Quasar SDSSp J104433.04–012502.2, W. N. Brandt, M. Guainazzi, S. Kaspi, **X. Fan**, et al. 2001, AJ, 121, 591
- 32. A New Very Cool White Dwarf Discovered by the Sloan Digital Sky Survey, H. C. Harris et al. 2001, ApJ Letters, 549, L109
- *31. The Discovery of a Luminous $z = 5.80$ Quasar from the Sloan Digital Sky Survey, **X. Fan**, et al. et al., 2000, AJ, 120, 1167
- *30. The Sloan Digital Sky Survey: Technical Summary, D. G. York et al., 2000, AJ, 120, 1579 – 1587
- *29. Five High-Redshift Quasars Discovered in Commissioning Imaging Data of the Sloan Digital Sky Survey, W. Zheng, Z. I. Tsvetanov, D. P. Schneider, **X. Fan**, et al., 2000, AJ, 120, 1607
- *28. Candidate RR Lyrae Stars Found in Sloan Digital Sky Survey Commissioning Data, Z. Ivezić, et al., 2000, AJ, 120, 963
- *27. Discovery of a Close Pair of $z = 4.25$ Quasars from the Sloan Digital Sky Survey, D. P. Schneider, **X. Fan**, et al. 2000, AJ, 120, 2183
- *26. Optical and Infrared Colors of Stars Observed by 2MASS and SDSS, K. Finlator, Z. Ivezić, **X. Fan**, et al., 2000, AJ, 120, 2615
- *25. Spatially Resolved Spectrophotometry of M81: Age, Metallicity, and Reddening Maps, X. Kong et al., 2000, AJ, 119, 2745
- *24. The Missing Link: Early Methane (“T”) Dwarfs in the Sloan Digital Sky Survey, S. K. Leggett, T. R. Geballe, **X. Fan**, D. P. Schneider, J. E. Gunn et al., 2000, ApJ, 536, L35 – L38
- *23. Dust Emission from High-Redshift QSOs, C. L. Carilli, F. Bertoldi, K. M. Menten, M. P. Rupen, E. Kreysa, **X. Fan**, M. A. Strauss, D. P. Schneider, A. Bertarini, M. S. Yun, & R. Zylka, 2000, ApJ, 533, L13 – L16
- *22. The Discovery of a Second Field Methane Dwarf from Sloan Digital Sky Survey Commissioning Data, Z. I. Tsvetanov, et al., 2000, ApJ Letters, 531, L61
- *21. Calibration of the BATC Survey: Methodology and Accuracy, H. Yan, D. Burstein, **X. Fan**, et al., 2000, PASP, 112, 691
- *20. L Dwarfs from Sloan Digital Sky Survey Commissioning Data, **X. Fan**, et al., 2000, AJ, 119, 928

- *19. High-redshift Quasars found in Sloan Digital Sky Survey Commissioning Data II: the Spring Equatorial Stripe, **X. Fan**, et al., 2000, AJ, 119, 1
- *18. The Low Resolution Spectrograph of the Hobby-Eberly Telescope III: Observations of Quasar Candidates from the Sloan Digital Sky Survey, D. P. Schneider, G. J. Hill, **X. Fan**, et al., 2000, PASP, 112, 6
- *17. The Discovery of a High-redshift Quasar without Emission Lines from Sloan Digital Sky Survey Commissioning Data, **X. Fan**, et al., 1999, ApJ Letters, 526, L57
- *16. The Discovery of a Field Methane Dwarf from Sloan Digital Sky Survey Commissioning Data, M. A. Strauss, **X. Fan**, J. E. Gunn, S. K. Leggett, T. R. Geballe, J.R. Pier, R. H. Lupton, G. R. Knapp et al., 1999, ApJ, 522, L61
- *15. High-redshift Quasars found in Sloan Digital Sky Survey Commissioning Data, **X. Fan**, et al., 1999, AJ, 118, 1
- *14. Simulation of Stellar Objects in SDSS Color Space, **X. Fan**, 1999, AJ, 117, 2528
- *13. Catalog of Four-Color Photometry of Stars, Galaxies, and QSOs using SDSS Filter, H. J. Newberg, G. T. Richards, M. Richmond, & **X. Fan**, ApJS, 1999, 123, 377
- *12. Deep Intermediate-Band Surface Photometry of NGC 5907, Z. Zheng, et al. 1999, AJ, 117, 2757
- *11. An Automated Cluster Finder: the Adaptive Matched Filter, J. V. Kepner, **X. Fan**, N. A. Bahcall, J. E. Gunn, R. H. Lupton & G. Xu, 1999, ApJ, 517, 78
- *10. The Evolution of Massive Clusters: Determining Ω and σ_8 , N. A. Bahcall and **X. Fan**, 1998, ApJ Letters, 504, 1
- *9. Ring Structure and Warp of NGC5907 – Interaction with Dwarf Galaxies, Z. Shang et al., 1998, ApJ Letters, 504, L23
- *8. A Lightweight Universe, N. A. Bahcall & **X. Fan**, 1998, Proceedings of the National Academy of Sciences, 95, 5956
- *7. Determining the Amplitude of Mass Fluctuations in the Universe, **X. Fan**, N. A. Bahcall & R. Cen, 1997, ApJ, 490, L123
- *6. Constraining Ω with Cluster Evolution, N. A. Bahcall, **X. Fan** & R. Cen, 1997, ApJ, 485, L53
- *5. Quasar Photometry with the SDSS Monitor Telescope, G. Richards, et al., 1997, PASP, 109, 39
- *4. Deep Wide-Field Spectrophotometry of Old Open Cluster M67, **X. Fan**, et al., 1996, AJ, 111, 628
- *3. The Changes of QSO Color Indices with Redshift, **X. Fan** & J. Chen, 1994, Acta Astrophysica Sinica, 14, 197

*2. Discussion on Selection Effects of Multicolor Survey for High Redshift QSOs by Using Monte-Carlo Simulation, **X. Fan** & J. Chen, 1994, Acta Astrophysica Sinica, 14, 124

*1. Does the Lyman Limit System (LLS) Evolve Strongly? **X. Fan** & J. Chen, 1993, A&A, 277, L5