

## Papers in Preparation

1. “The multi-band properties of  $z \sim 6$  quasars and their galaxy progenitors” , **Li, Yuexing**, Hernquist, L., Fazio, G., Wang, R., Fan, X., & Elvis, M.
2. “The clustering of galaxies and quasars in the epoch of reionization” , **Li, Yuexing**, Hernquist, L., Fazio, G., McQuinn, M., Lidz, A., & Gao, L

## Papers in Refereed Journals

1. “Modeling the Dust Properties of  $z \sim 6$  Quasars with ART<sup>2</sup> – All-wavelength Radiative Transfer with Adaptive Refinement Tree” , **Li, Yuexing**, Hopkins, P. F., Hernquist, L., Finkbeiner, D. P., Cox, T. J., Springel, V., Jiang, L., Fan, X., & Yoshida, N., 2008, ApJ 678, 41
2. “Formation of  $z \sim 6$  quasars from hierarchical galaxy mergers” , **Li, Yuexing**, Hernquist, L., Robertson, B., Cox, T. J., Hopkins, P. F., Springel, V., Gao, L., Di Matteo, T., Zentner, A. R., Jenkins, A. & Yoshida, N., 2007, ApJ, 665, 187
3. “Nature of CO emission from  $z \sim 6$  quasars” , Narayanan, D., **Li, Yuexing**, Cox, T. J., Hernquist, L., Hopkins, P., Chakrabarti, S., Davé, R., Di Matteo, T., Kulesa, C., Robertson, B., Springel, V., & Walker, C. K. 2008, ApJS, 174, 13
4. “Photometric Properties of the Most Massive High-Redshift Galaxies” , Robertson, B., **Li, Yuexing**, Cox, T. J., Hernquist, L, Hopkins, P. F., 2007, ApJ, 667, 60
5. “The Relation Between Quasar and Merging Galaxy Luminosity Functions and the Merger-Induced Star Formation Rate of the Universe”, Hopkins, P. F., Somerville, R. S., Hernquist, L., Cox, T. J., Robertson, B., & **Li, Yuexing**, 2006, ApJ 652, 864
6. “Star Formation in Isolated Disk Galaxies. II. Schmidt Laws and Efficiency of Gravitational Collapse” , **Li, Yuexing**, Mac Low, M.-M., & Klessen, R. S., 2006, ApJ, 639, 879
7. “Star Formation in Isolated Disk Galaxies. I. Models and Characteristics of Nonlinear Gravitational Collapse” , **Li, Yuexing**, Mac Low, M.-M., & Klessen, R. S., 2005, ApJ, 626, 823
8. “Control of Star Formation in Galaxies by Gravitational Instability”, **Li, Yuexing**, Mac Low, M.-M., & Klessen, R. S. 2005, ApJL, 620, L19
9. “Effects of a Piecewise Polytrropic Equation of State on Turbulent Fragmentation”, Jappsen, A.-K., Klessen, R. S., Larson, R. B., **Li, Yuexing**, & Mac Low, M.-M. 2005, A&A, 435, 611
10. “Formation of Globular Clusters in Galaxy Mergers” , **Li, Yuexing**, Mac Low, M.-M., & Klessen, R. S. 2004, ApJL, 614, L29.
11. “Initial Ionization of Compressible Turbulence”, **Li, Yuexing**, Mac Low, M.-M., & Abel, T. 2004, ApJ., 610, 339.

12. “The Formation of Stellar Clusters in Turbulent Molecular Clouds: Effects of the Equation of State”, **Li, Yuexing**, Klessen, R. S., & Mac Low, M.-M., 2003, ApJ, 592, 975.
13. “Spectroscopic Signatures of Conduction-mediated Transition Layers above an X-Ray-illuminated Disk”, **Li, Yuexing**, Gu, M. F., & Kahn, S. M., 2001, ApJ, 560, 644.
14. “CO spectra of two IRAS sources”, **Li, Yuexing**, & Wu, Y., 1999, Chinese Journal of Astrophysics & Astronomy, 23, 304.
15. “High velocity gas in S241 and IRAS 19529+2704”, Wu, Y., Yang, C., & **Li, Yuexing** 1999, Chinese Journal of Astrophysics & Astronomy, 23, 6.
16. “A search for high-velocity gas in massive star formation regions”, Wu, Y., **Li, Yuexing**, & Zheng, L., 1998, Chinese Journal of Astrophys. & Astron., 22, 459.

### Conference Proceedings

1. “The formation, evolution, and multi-band properties of  $z \sim 6$  quasars and galaxy progenitors”, **Li, Yuexing**, Hopkins, Phil, Hernquist, Lars, Fazio, Giovanni, 2007, in Panoramic Views of Galaxy Formation and Evolution, Japan
2. “The Formation of Stellar Clusters in Turbulent Molecular Clouds: Effects of the Equation of State”, **Li, Yuexing**, Klessen, R. S., & Mac Low, M.-M. 2002, in Extragalactic Globular Cluster Systems, ed. M. Kissler-Patig (Springer, Heidelberg), p.32.
3. “The Multi-Phase Interstellar Medium of NGC 4406”, **Li, Yuexing**, & van Gorkom, J.H., 2001, in Gas and Galaxy Evolution, ASP Conference Proceedings, Vol. 240, Ed. J.E. Hibbard, M. Rupen, & J. H. van Gorkom, p.637.
4. “Transition Layers Above an X-ray Illuminated Disk”, **Li, Yuexing**, Gu, M.F., & Kahn, S.M., 2001, in X-ray Emission from Accretion onto Black Holes, Eds.: T. Yaqoob & J. H. Krolik, published electronically, p.41

### Popular Science Work

1. 2009, Provided scientific simulations for the new space show “Journey to the Stars” produced by the Hayden Planetarium at AMNH.
2. September 2008, Provided a movie for the Discovery Channel on the formation of a luminous quasar at  $z \sim 6$  through hierarchical mergers, for the TV program “Cosmic Collisions”.
3. 2001 - 2006, Provided scientific simulations and movies for two space shows produced by the Hayden Planetarium at American Museum of Natural History, “Search for Life” in 2003, and “Cosmic Collisions” in 2006, and translated them into Chinese. These programs are being shown globally and are viewed by thousands of people everyday.