

Tsvi Piran – 30 Selected Publications

The list covers selected publications concerning GRBs and neutron star mergers as well as selected publication in other topics in high energy astrophysics.

1. Eichler, D., Livio, M., **Piran, T.**, Schramm, D.,N. *Nucleosynthesis, neutrino bursts and gamma-rays from coalescing neutron stars*, Nature, 340, 126, 1989 [768 citations]
2. Shemi, A., **Piran, T.**, *The appearance of cosmic fireballs*, ApJ, 365, L55, 1990 [240 citations]
3. Narayan, R., **Piran, T.**, Shemi, A. *Neutron star and black hole binaries in the Galaxy*, ApJ, 379, L17, 1991 [citations]
4. Narayan, R., Paczynski, B., **Piran, T.**, *Gamma-ray bursts as the death throes of massive binary stars*, ApJ, 395, L83, 1992 [332 citations]
5. **Piran, T.** *The implications of the Compton (GRO) observations for cosmological gamma-ray bursts*, ApJ, 389, L45, 1992 [183 citations]
6. Kochanek, C.,S., **Piran, T.**, *Gravitational Waves and gamma -Ray Bursts*, ApJ, 417, L17, 1993 [97 citations]
7. Davies, M.,B., Benz, W., **Piran, T.**, Thielemann, F.,K., *Merging neutron stars. 1. Initial results for coalescence of noncorotating systems*, ApJ, 431, 742, 1994 [110 citations]
8. Sari, R., **Piran, T.**, *Variability in Gamma-Ray Bursts: A Clue*, ApJ, 485, 270, 1997 [268 citations]
9. Sari, R., **Piran, T.**, Narayan, R., *Spectra and Light Curves of Gamma-Ray Burst Afterglows*, ApJ, 497, L17, 1998 [1183 citations]
10. Sari, R., **Piran, T.**, Halpern, J.,P., *Jets in Gamma-Ray Bursts*, ApJ, 519, L17, 1999 [657 citations]
11. Sari, R., **Piran, T.**, GRB 990123: *The Optical Flash and the Fireball Model*, ApJ, 517, L109, 1999 [264 citations]
12. Berger, E.,...**Piran, T.** ... et al., *The afterglow and elliptical host galaxy of the short γ -ray burst GRB 050724*, Nature, 438, 988, 2005 [249 citations]
13. **Piran, T.**, *The physics of gamma-ray bursts*, RvMP, 76, 1143, 2005 [876 citations]
14. Racusin, J.,L. ,...**Piran, T.** ... et al., *Broadband observations of the naked-eye gamma-ray burst GRB080319B*, Nature, 455, 183, 2008 [305 citations]
15. Wanderman D., **Piran T.**, *The luminosity function and the rate of Swift's Gamma Ray Bursts*, 2010, MNRAS, 406, 1944 [110 citations]
16. Nakar, E. and **Piran T.**, *Radio Remnants of Compact Binary Mergers – the Electromagnetic Signal that will follow the Gravitational Waves*, 2011, Nature 478, 82. [79 citations]
17. Stark, R.,F., **Piran, T.**, *Gravitational-wave emission from rotating gravitational collapse*, PhRvL, 55, 891, 1985 [174 citations]
18. Amelino-Camelia, G., **Piran, T.**, *Cosmic rays and TeV photons as probes of quantum properties of space-time*, PhLB, 497, 265, 2001 [65 citations]
19. Shaviv, N. J., Nakar E., **Piran T.**, *Inhomogeneity in Cosmic Ray Sources as the Origin of the Electron Spectrum and the PAMELA Anomaly*, PhRvL, 103, 111302, 2009 [86 citations]

20. Grossman, D., Korobkin, O., Rosswog, S., **Piran, T.** *The long-term evolution of neutron star merger remnants - II. Radioactively powered transients*, 2014 MNRAS.439..757G [40 citations]
21. Rosswog, S., Korobkin, O., Arcones, A., Thielemann, F.-K., **Piran, T.** *The long-term evolution of neutron star merger remnants - I. The impact of r-process nucleosynthesis*, 2014MNRAS.439..744R [34 citations]
22. Jacob, U., **Piran, T.**, Lorentz-violation-induced arrival delays of cosmological particles, 2008JCAP...01..031J [57 citations]
23. Kohri, K., Narayan, R., **Piran, T.** *Neutrino-dominated Accretion and Supernovae*, 2005ApJ...629..341K [96 citations]
24. Spergel, D.N., **Piran, T.**, Goodman, J., Dynamics of superconducting cosmic strings, 1987NuPhB.291..847S [86 citations]
25. Bahcall, J. N.; Dar, A.; **Piran, T.** *Neutrinos from the recent LMC supernova*, 1987Natur.326..135B [51 citations]
26. Ori, A.; Piran, T., *Naked singularities and other features of self-similar general-relativistic gravitational collapse*, 1990PhRvD..42.1068O [200 citations]
27. Laor, A.; Netzer, H.; **Piran, T.**, *Massive thin accretion discs. II – Polarization*, 1990MNRAS.242..560L [122 citations]
28. Stark, R. F.; **Piran, T.**, Gravitational-wave emission from rotating gravitational collapse, 1985PhRvL..55..891S [174 citations]
29. Spergel, D. N.; **Piran, T.**; Goodman, J., *Dynamics of superconducting cosmic strings*, 1987NuPhB.291..847S [86 citations]
30. **Piran, T.**, *The role of viscosity and cooling mechanisms in the stability of accretion disks*, 1978ApJ...221..652P [207 citations]

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