

A running list of classic papers in theoretical astrophysics. Maintained by NC. Thanks to Eliot Quataert for many of the original suggestions. In compiling the list we have tried to select papers that are particularly readable.

Shepherd moons in planetary rings

<https://ui.adsabs.harvard.edu/abs/1979Natur.277...97G/abstract>

Blue kilonova spectra (confirmed!)

<http://adsabs.harvard.edu/abs/2010MNRAS.406.2650M>

Three-phase ISM

<https://adsabs.harvard.edu/full/1990ASPC...12....3M>

Feedback in galaxy formation

<https://ui.adsabs.harvard.edu/abs/1998A%26A...331L...1S/abstract>

Shakura-Sunyaev disks

<https://ui.adsabs.harvard.edu/abs/1973A%26A....24..337S/abstract>

SEDs of circumstellar accretion disks (to be contrasted with viscously heated SS disks)

<https://ui.adsabs.harvard.edu/abs/1997ApJ...490..368C/abstract>

Magnetorotational instability (important for how disks transport angular momentum)

<https://ui.adsabs.harvard.edu/abs/1991ApJ...376..214B/abstract>

Cold dark matter

<https://ui.adsabs.harvard.edu/abs/1984Natur.311..517B/abstract>

Runaway gas accretion (most cited paper in the history of Icarus)

<https://ui.adsabs.harvard.edu/abs/1996Icar..124...62P/abstract>

Tidal disruption events and their classic light curve solution (note that Phinney corrected the power-law index, should be  $5/3$ )

<https://ui.adsabs.harvard.edu/abs/1988Natur.333..523R/abstract>

Quasars in elliptical galaxies

<https://ui.adsabs.harvard.edu/abs/1982Natur.295...17R/abstract>

Microlensing

<https://ui.adsabs.harvard.edu/abs/1986ApJ...304....1P/abstract>

Gamma ray bursts

<https://ui.adsabs.harvard.edu/abs/1986ApJ...308L..43P/abstract>

