

Frederic A. Rasio — List of Publications

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Articles Published in Books and Refereed Journals

Highly cited papers are highlighted with their title in boldface; the number of citations reported by the NASA Astrophysics Data System is given in square brackets following the title. An online version of this list, including links to electronic copies of all papers in PDF format and full citation information, is available at <http://www.astro.northwestern.edu/rasio/> under Publications.

1989

1. Solving the Collisionless Boltzmann Equation in General Relativity. Rasio, F.A., Shapiro, S.L., & Teukolsky, S.A. 1989, in *Dynamics of Dense Stellar Systems*, ed. D. Merritt (Cambridge Univ. Press), 121–130.
2. On the Existence of Stable Relativistic Star Clusters with Arbitrarily Large Central Redshifts. Rasio, F.A., Shapiro, S.L., & Teukolsky, S.A. 1989, *The Astrophysical Journal Letters*, **336**, L63–L66.
3. What is Causing the Eclipse in the Millisecond Binary Pulsar? Rasio, F.A., Shapiro, S.L., & Teukolsky, S.A. 1989, *The Astrophysical Journal*, **342**, 934–939.
4. Solving the Vlasov Equation in General Relativity. Rasio, F.A., Shapiro, S.L., & Teukolsky, S.A. 1989, *The Astrophysical Journal*, **344**, 146–157.

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5. Encounters between Compact Stars and Red Giants in Dense Stellar Systems. Rasio, F.A., & Shapiro, S.L. 1990, *The Astrophysical Journal*, **354**, 201–210.

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6. Eclipse Mechanisms for Binary Pulsars. Rasio, F.A., Shapiro, S.L., & Teukolsky, S.A. 1991, *Astronomy & Astrophysics*, **241**, L25–L28.
7. **Collisions of Giant Stars with Compact Objects: Hydrodynamical Calculations** [130]. Rasio, F.A., & Shapiro, S.L. 1991, *The Astrophysical Journal*, **377**, 559–580.

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8. **An Observational Test for the Existence of a Planetary System Orbiting PSR 1257+12** [66]. Rasio, F.A., Nicholson, P.D., Shapiro, S.L., & Teukolsky, S.A. 1992, *Nature*, **355**, 325–326.
9. Formation of a ‘Planet’ by Rapid Evaporation of a Pulsar’s Companion. Rasio, F.A., Shapiro, S.L., & Teukolsky, S.A. 1992, *Astronomy & Astrophysics*, **256**, L35–L37.
10. **Hydrodynamical Evolution of Coalescing Binary Neutron Stars** [131]. Rasio, F.A., & Shapiro, S.L. 1992, *The Astrophysical Journal*, **401**, 226–245.

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11. **Hydrodynamic Instability and Coalescence of Close Binary Systems** [77]. Lai, D., Rasio, F.A., & Shapiro, S.L. 1993, *The Astrophysical Journal Letters*, **406**, L63–L66.
12. Collisions and Close Encounters between Massive Main-Sequence Stars. Lai, D., Rasio, F.A., & Shapiro, S.L. 1993, *The Astrophysical Journal*, **412**, 593–611.
13. Orbital Evolution of the PSR 1257+12 Planetary System. Rasio, F.A., Nicholson, P.D., Shapiro, S.L., & Teukolsky, S.A. 1993, in *Planets around Pulsars*, ed. A. Philips, S. Thorsett, & S. Kulkarni (ASP Conference Series Vol. 36), 107–120.
14. **Ellipsoidal Figures of Equilibrium: Compressible Models** [204]. Lai, D., Rasio, F.A., & Shapiro, S.L. 1993, *The Astrophysical Journal Supplements*, **88**, 205–252.
15. Hydrodynamic Stellar Interactions in Dense Star Clusters. Rasio, F.A. 1993, *Publications of the ASP*, **105**, 973–976.
16. Hydrodynamic Instabilities in Close Binary Systems and the Formation of Blue Stragglers. Rasio, F.A. 1993, in *Blue Stragglers*, ed. R.A. Saffer (ASP Conference Series Vol. 53), 196–200.

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17. **Hydrodynamic Instability and Coalescence of Binary Neutron Stars** [121]. Lai, D., Rasio, F.A., & Shapiro, S.L. 1994, *The Astrophysical Journal*, **420**, 811–829.
18. **Equilibrium, Stability, and Orbital Evolution of Close Binary Systems** [80]. Lai, D., Rasio, F.A., & Shapiro, S.L. 1994, *The Astrophysical Journal*, **423**, 344–370.
19. Is there a Planet in the PSR 1620–26 Triple System? Rasio, F.A. 1994, *The Astrophysical Journal Letters*, **427**, L107–L110.
20. **Collapse of Primordial Gas Clouds and the Formation of Quasar Black Holes** [189]. Loeb, A., & Rasio, F.A. 1994, *The Astrophysical Journal*, **432**, 52–61.
21. **Hydrodynamics of Binary Coalescence. I. Polytropes with Stiff Equations of State** [137]. Rasio, F.A., & Shapiro, S.L. 1994, *The Astrophysical Journal*, **432**, 242–261.
22. A Possible Optical Counterpart for the Triple Pulsar System PSR B1620–26. Bailyn, C.D., Rubenstein, E.P., Girard, T.M., Dinescu, D.I., Rasio, F.A., & Yanny, B. 1994, *The Astrophysical Journal Letters*, **433**, L89–L92.
23. Hydrodynamics of Binary Coalescence. Rasio, F.A. 1994, in *Evolutionary Links in the Zoo of Interacting Binaries*, ed. F. D’Antona et al. (Memorie della Società Astronomica Italiana, Vol. 65), 37–48.
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28. **Hydrodynamics of Binary Coalescence. II. Polytropes with $\Gamma=5/3$** [153]. Rasio, F.A., & Shapiro, S.L. 1995, *The Astrophysical Journal*, **438**, 887–903.
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30. **The Minimum Mass Ratio of W Ursae Majoris Binaries** [57]. Rasio, F.A. 1995, *The Astrophysical Journal Letters*, **444**, L41–L43.
31. **On Blue Straggler Formation by Direct Collisions of Main–Sequence Stars** [80]. Lombardi, J., Rasio, F.A., & Shapiro, S.L. 1995, *The Astrophysical Journal Letters*, **445**, L117–L120.
32. The Orbital Eccentricities of Binary Millisecond Pulsars in Globular Clusters. Rasio, F.A., & Heggie, D. 1995, *The Astrophysical Journal Letters*, **445**, L133–L135.

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33. Hydrodynamic Evolution of Coalescing Compact Binaries. Rasio, F.A., & Shapiro, S.L. 1996, in *Compact Stars in Binaries*, ed. J. van Paradijs et al. (Proceedings of IAU Symposium 165, Kluwer), 17–28.
34. **Collisions of Main-Sequence Stars and the Formation of Blue Stragglers in Globular Clusters** [72]. Lombardi, J., Rasio, F.A., & Shapiro, S.L. 1996, *The Astrophysical Journal*, **468**, 797–818.
35. **The Effect of Encounters on the Eccentricity of Binaries in Clusters** [65]. Heggie, D., & Rasio, F.A. 1996, *Monthly Notices of the RAS*, **282**, 1064–1084.
36. Hydrodynamics of Stellar Mergers and the Formation of Blue Stragglers. Rasio, F.A. 1996, in *The Origins, Evolution, and Destinies of Binary Stars in Clusters*, ed. E.F. Milone & J.-C. Mermilliod (ASP Conference Series Vol. 90), 368–377.
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40. **Tidal Decay of Close Planetary Orbits** [263]. Rasio, F.A., Tout, C.A., Lubow, S.H., & Livio, M. 1996, *The Astrophysical Journal*, **470**, 1187–1192.
41. **On the Formation and Evolution of Common Envelope Systems** [88]. Rasio, F.A., & Livio, M. 1996, *The Astrophysical Journal*, **471**, 366–376.
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Statistics:

Total number of entries on ADS: 367
Total number of refereed publications: 161
Total citations: 10,862
Total citations in 2017: 1,186
Average citations per refereed paper: 65
h-index: 62
m-index: 2.03
g-index: 98
i10-index: 151

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