

Frederic A. Rasio — List of Publications

Updated October 24, 2017

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, *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, *Astrophysical Journal*, **342**, 934–939.
4. Solving the Vlasov Equation in General Relativity. Rasio, F.A., Shapiro, S.L., & Teukolsky, S.A. 1989, *Astrophysical Journal*, **344**, 146–157.

1990

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

1991

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, *Astrophysical Journal*, **377**, 559–580.

1992

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, *Astrophysical Journal*, **401**, 226–245.

1993

11. **Hydrodynamic Instability and Coalescence of Close Binary Systems** [77]. Lai, D., Rasio, F.A., & Shapiro, S.L. 1993, *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, *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** [201]. Lai, D., Rasio, F.A., & Shapiro, S.L. 1993, *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.

1994

17. **Hydrodynamic Instability and Coalescence of Binary Neutron Stars** [119]. Lai, D., Rasio, F.A., & Shapiro, S.L. 1994, *Astrophysical Journal*, **420**, 811–829.
18. **Equilibrium, Stability, and Orbital Evolution of Close Binary Systems** [79]. Lai, D., Rasio, F.A., & Shapiro, S.L. 1994, *Astrophysical Journal*, **423**, 344–370.
19. Is there a Planet in the PSR 1620–26 Triple System? Rasio, F.A. 1994, *Astrophysical Journal Letters*, **427**, L107–L110.
20. **Collapse of Primordial Gas Clouds and the Formation of Quasar Black Holes** [188]. Loeb, A., & Rasio, F.A. 1994, *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, *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, *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.
24. Explosions of Neutron Star Fragments Ejected during Binary Coalescence. Colpi, M., & 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), 379–382.
25. Hydrodynamics of Rotating Stars and Close Binary Interactions: Compressible Ellipsoid Models. Lai, D., Rasio, F.A., & Shapiro, S.L. 1994, *Astrophysical Journal*, **437**, 742–769.
26. Hydrodynamical Instability and Orbital Evolution of Close Binary Systems. Lai, D., Rasio, F.A., & Shapiro, S.L. 1994, in *The Evolution of X-ray Binaries*, ed. S. Holt (AIP Conference Proceedings Vol. 308), 303–306.

1995

27. Binary–Binary Interactions and the Formation of the PSR B1620–26 Triple System in M4. Rasio, F.A., McMillan, S., & Hut, P. 1995, *Astrophysical Journal Letters*, **438**, L33–L36.

28. **Hydrodynamics of Binary Coalescence. II. Polytropes with $\Gamma=5/3$** [153]. Rasio, F.A., & Shapiro, S.L. 1995, *Astrophysical Journal*, **438**, 887–903.
29. Secular Evolution of the Eccentricity in the PSR1620–26 Triple System. Rasio, F.A. 1995, in *Millisecond Pulsars: A Decade of Surprise*, ed. D. Backer et al. (ASP Conference Series Vol. 72), 424–428.
30. **The Minimum Mass Ratio of W Ursae Majoris Binaries** [59]. Rasio, F.A. 1995, *Astrophysical Journal Letters*, **444**, L41–L43.
31. **On Blue Straggler Formation by Direct Collisions of Main–Sequence Stars** [79]. Lombardi, J., Rasio, F.A., & Shapiro, S.L. 1995, *Astrophysical Journal Letters*, **445**, L117–L120.
32. The Orbital Eccentricities of Binary Millisecond Pulsars in Globular Clusters. Rasio, F.A., & Heggie, D. 1995, *Astrophysical Journal Letters*, **445**, L133–L135.

1996

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** [71]. Lombardi, J., Rasio, F.A., & Shapiro, S.L. 1996, *Astrophysical Journal*, **468**, 797–818.
35. **The Effect of Encounters on the Eccentricity of Binaries in Clusters** [63]. 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.
37. Dynamical Interactions and Binary Millisecond Pulsars in Globular Clusters. Rasio, F.A., & Heggie, D.C. 1996, in *The Origins, Evolution, and Destinies of Binary Stars in Clusters*, ed. E.F. Milone & J.-C. Mermilliod (ASP Conference Series Vol. 90), 410–412.
38. Hydrodynamic Instabilities in Close Binary Systems. Rasio, F.A. 1996, in *Evolutionary Processes in Binary Stars*, ed. R.A.M.J. Wijers, M.B. Davies, & C.A. Tout (NATO ASI Series, Kluwer), 121–140.
39. SPH Calculations of Collisions between Main-Sequence Stars. Rasio, F.A. 1996, in *Dynamical Evolution of Star Clusters*, ed. P. Hut & J. Makino (Proceedings of IAU Symposium 174, Kluwer), 253–262.
40. **Tidal Decay of Close Planetary Orbits** [261]. Rasio, F.A., Tout, C.A., Lubow, S.H., & Livio, M. 1996, *Astrophysical Journal*, **470**, 1187–1192.
41. **On the Formation and Evolution of Common Envelope Systems** [88]. Rasio, F.A., & Livio, M. 1996, *Astrophysical Journal*, **471**, 366–376.
42. Orbital Parameters of the PSR B1620–26 Triple System. Arzoumanian, Z., Joshi, K., Rasio, F.A., & Thorsett, S.E. 1996, in *Pulsars: Problems and Progress*, ed. S. Johnston et al. (Proceedings of IAU Colloquium 160, ASP Conference Series Vol. 105), 525–530.
43. The Origin and Evolution of Millisecond Pulsars. Bailes, M., Ergma, E., Lyne, A., Rasio, F., van den Heuvel, E., van Kerkwijk, M., Verbunt, F., & Wijers, R. 1996, in *Pulsars: Problems and Progress*, ed. S. Johnston et al. (Proceedings of IAU Colloquium 160, ASP Conference Series Vol. 105), 557–582.

44. **Dynamical Instabilities and the Formation of Extrasolar Planetary Systems** [570]. Rasio, F.A., & Ford, E.B. 1996, *Science*, **274**, 954–956.

1997

45. Distant Companions and Planets around Millisecond Pulsars. Joshi, K.J., & Rasio, F.A. 1997, *Astrophysical Journal*, **479**, 948–959; erratum 1997, **488**, 901.
46. **Post-Newtonian Models of Binary Neutron Stars** [55]. Lombardi, J.C., Jr., Rasio, F.A., & Shapiro, S.L. 1997, *Physical Review D*, **56**, 3416–3438.
47. **Evolution of Stellar Collision Products in Globular Clusters. I. Head-on Collisions** [86]. Sills, A., Lombardi, J.C., Jr., Bailyn, C.D., Demarque, P., Rasio, F.A., & Shapiro, S.L. 1997, *Astrophysical Journal*, **487**, 290–303.

1998

48. Newtonian and Post-Newtonian Calculations of Coalescing Compact Binaries. Rasio, F.A. 1998, in *Relativistic Astrophysics*, ed. H. Riffert et al. (Proceedings of 162nd W.E. Heraeus Seminar, Vieweg Verlag), 181–195.
49. Coalescing Binary Neutron Stars. Rasio, F.A. 1998, in *The Many Faces of Neutron Stars*, ed. R. Buccheri, J. van Paradijs, & M.A. Alpar (NATO ASI Series, Kluwer), 474–488.
50. Lessons from 3-D Hydrodynamic Calculations of Binary Neutron Star Coalescence. Rasio, F.A. 1998, in *Relativistic Astrophysics and Cosmology*, ed. A.V. Olinto, J.A. Frieman, & D.N. Schramm (Proceedings of 18th Texas Symposium, World Scientific), 595–597.

1999

51. Smoothed Particle Hydrodynamics Calculations of Stellar Interactions. Rasio, F.A., & Lombardi, J.C., Jr. 1999, in *Journal of Computational and Applied Mathematics*, **109**, 213–230.
52. **Structure and Evolution of Nearby Stars with Planets. I. Short-Period Systems** [67]. Ford, E.B., Rasio, F.A., & Sills, A. 1999, *Astrophysical Journal*, **514**, 411–429.
53. Tests of Spurious Transport in Smoothed Particle Hydrodynamics. Lombardi, J.C., Jr., Sills, A., Rasio, F.A., & Shapiro, S.L. 1999, *Journal of Computational Physics*, **152**, 687–735.
54. **Coalescing Binary Neutron Stars** [71]. Rasio, F.A., & Shapiro, S.L. 1999, *Classical and Quantum Gravity*, **16**, R1–R29.

2000

55. Theoretical Implications of the 47 Tuc Pulsars. Rasio, F.A. 2000, in *Pulsar Astronomy – 2000 and Beyond*, ed. M. Kramer, N. Wex, & R. Wielebinski (Proceedings of IAU Colloquium 177, ASP Conference Series Vol. 202), 589–594.
56. Theoretical Implications of the PSR B1620–26 Triple System and its Planet. Ford, E.B., Joshi, K.J., Rasio, F.A., & Zbarsky, B. 2000, *Astrophysical Journal*, **528**, 336–350.
57. **Formation of Short-Period Binary Pulsars in Globular Clusters** [104]. Rasio, F.A., Pfahl, E.D., & Rappaport, S.A. 2000, *Astrophysical Journal Letters*, **532**, L47–L50.
58. Particle Methods in Astrophysical Fluid Dynamics. Rasio, F.A. 2000, in *Proceedings of the 5th International Conference on Computational Physics (ICCP5)*, ed. Y. Hiwatari et al. (Progress of Theoretical Physics Supplement No. 138), 609–621.
59. **Secular Evolution of Hierarchical Triple Star Systems** [233]. Ford, E.B., Kozinsky, B., & Rasio, F.A. 2000, *Astrophysical Journal*, **535**, 385–401; erratum 2004, **605**, 966.

60. Thermal and Dynamical Equilibrium in Two-Component Star Clusters. Watters, W.A., Joshi, K.J., & Rasio, F.A. 2000, *Astrophysical Journal*, **539**, 331–341.
61. **Monte Carlo Simulations of Globular Cluster Evolution. I. Method and Test Calculations** [78]. Joshi, K.J., Rasio, F.A., & Portegies Zwart, S. 2000, *Astrophysical Journal*, **540**, 969–982.
62. Post-Newtonian SPH Calculations of Binary Neutron Star Coalescence. I. Method and First Results. Faber, J.A., & Rasio, F.A. 2000, *Physical Review D*, **62**, 064012 (1–23).

2001

63. Hydrodynamics of Neutron Star Mergers. Faber, J.A., & Rasio, F.A. 2001, in *Astrophysical Sources for Ground-Based Gravitational Wave Detectors*, ed. J.M. Centrella (AIP Conference Proceedings Vol. 575), 130–142.
64. Post-Newtonian SPH Simulations of Binary Neutron Stars. Faber, J.A., & Rasio, F.A. 2001, in *Twentieth Texas Symposium on Relativistic Astrophysics*, ed. J.C. Wheeler & H. Martel (AIP Conference Proceedings Vol. 586), 775–778.
65. LISA Sources in Globular Clusters. Benacquista, M.J., Portegies Zwart, S., & Rasio, F.A. 2001, *Classical and Quantum Gravity*, **18**, 4025–4031.
66. The Final Fate of Coalescing Binary Neutron Stars: Collapse to a Black Hole? Rasio, F.A. 2001, in *Black Holes in Binaries and Galactic Nuclei*, ed. L. Kaper, E.P.J. van den Heuvel, & P.A. Woudt (Springer Verlag), 344–350.
67. Monte Carlo Simulations of Globular Cluster Dynamics. Rasio, F.A. 2001, in *Dynamics of Star Clusters and the Milky Way*, ed. S. Deiters, B. Fuchs, A. Just, R. Spurzem, & R. Wielen (ASP Conference Series Vol. 228), 117–124.
68. A Hierarchical Triple Star System in M4. Rasio, F.A. 2001, in *Evolution of Binary and Multiple Star Systems*, ed. P. Podsiadlowski et al. (ASP Conference Series Vol. 229), 117–130.
69. Formation of Compact Binaries in Globular Clusters. Rappaport, S., Pfahl, E., Rasio, F., & Podsiadlowski, P. 2001, in *Evolution of Binary and Multiple Star Systems*, ed. P. Podsiadlowski et al. (ASP Conference Series Vol. 229), 409–422.
70. Binaries and Globular Cluster Dynamics. Rasio, F.A., Fregeau, J.M., & Joshi, K.J. 2001, *Astrophysics & Space Science*, **264**, 387–402.
71. The Final Fate of Coalescing Compact Binaries: From Black Hole to Planet Formation. Rasio, F.A. 2001, in *The Neutron Star – Black Hole Connection*, ed. C. Kouveliotou et al. (NATO ASI Series, Kluwer), 95–108.
72. **Evolution of Stellar Collision Products in Globular Clusters. II. Off-axis Collisions** [76]. Sills, A., Faber, J.A., Lombardi, J.C., Jr., Rasio, F.A., & Warren, A.R. 2001, *Astrophysical Journal*, **548**, 323–334.
73. Post-Newtonian SPH Calculations of Binary Neutron Star Coalescence. II. Binary Mass-Ratio, Equation of State, and Spin Dependence. Faber, J.A., Rasio, F.A., & Manor, J.B. 2001, *Physical Review D*, **63**, 044012 (1–16).
74. **Monte Carlo Simulations of Globular Cluster Evolution. II. Mass Spectra, Stellar Evolution and Lifetimes in the Galaxy** [70]. Joshi, K.J., Nave, C.P., & Rasio, F.A. 2001, *Astrophysical Journal*, **550**, 691–702.
75. **Dynamical Instabilities in Extrasolar Planetary Systems Containing Two Giant Planets** [121]. Ford, E.B., Havlickova, M., & Rasio, F.A. 2001, *Icarus*, **150**, 303–313.

76. Ruling Out Chaos in Compact Binary Systems. Schnittman, J.D., & Rasio, F.A. 2001, *Physical Review Letters*, **87**, 121101 (1–4).

2002

77. Stellar Collisions and Blue Straggler Formation. Lombardi, J.C., & Rasio, F.A. 2002, in *Stellar Collisions, Mergers and their Consequences*, ed. M. Shara (ASP Conference Series Vol. 263), 35–64.
78. **Stellar Collisions and the Interior Structure of Blue Stragglers** [89]. Lombardi, J.C., Warren, J.S., Rasio, F.A., Sills, A., & Warren, A.R. 2002, *Astrophysical Journal*, **568**, 939–953.
79. Post-Newtonian SPH Calculations of Binary Neutron Star Coalescence. III. Irrotational Systems and Gravitational Wave Spectra. Faber, J.A., & Rasio, F.A. 2002, *Physical Review D*, **65**, 084042 (1–18).
80. Mass Segregation in Globular Clusters. Fregeau, J.M., Joshi, K.J., Portegies Zwart, S.F., & Rasio, F.A. 2002, *Astrophysical Journal*, **570**, 171–183.
81. **Measuring Neutron-Star Radii with Gravitational-Wave Detectors** [65]. Faber, J.A., Grandclément, P., Rasio, F.A., & Taniguchi, K. 2002, *Physical Review Letters*, **89**, 231102 (1–4).

2003

82. The Radial Distribution of Millisecond Pulsars in 47 Tuc. Gürkan, M.A., & Rasio, F.A., 2003 in *New Horizons in Globular Cluster Astronomy*, ed. G. Piotto et al. (ASP Conference Proceedings Vol. 296), 300–301.
83. Formation of Binary Pulsars in Globular Clusters. Rasio, F.A. 2003, in *Radio Pulsars*, ed. M. Bailes, D.J. Nice, & S.E. Thorsett (ASP Conference Series Vol. 302), 385–397.
84. Dynamical Instabilities in Extrasolar Planetary Systems. Ford, E.B., Rasio, F.A., & Yu, K. 2003, in *Scientific Frontiers in Research on Extrasolar Planets*, ed. D. Deming & S. Seager (ASP Conference Series Vol. 294), 181–188.
85. Probing the Neutron Star Equation of State with Gravitational Wave Detectors. Rasio, F.A., & Faber, J.A. 2003, in *Gravitational Wave Detection*, ed. M. Cruise & P. Saulson (Proceedings of SPIE Vol. 4856), 156–166.
86. Helium-Core White Dwarfs in Globular Clusters. Hansen, B., Kalogera, V., & Rasio, F.A. 2003, *Astrophysical Journal*, **586**, 1364–1373.
87. **The Role of Helium Stars in the Formation of Double Neutron Stars** [82]. Ivanova, N., Belczynski, K., Kalogera, V., Rasio, F.A., & Taam, R.E. 2003, *Astrophysical Journal*, **592**, 475–485.
88. **Monte Carlo Simulations of Globular Cluster Evolution. III. Primordial Binary Interactions** [98]. Fregeau, J.M., Gürkan, A.M., Joshi, K.J., & Rasio, F.A. 2003, *Astrophysical Journal*, **593**, 772–787.
89. Conformally Flat Hydrodynamic Calculations with a Spectral Methods Field Solver. Faber, J.A., Grandclément, P., & Rasio, F.A. 2003, in *The Astrophysics of Gravitational Wave Sources* (AIP Conference Proceedings Vol. 686), 289–292.

2004

90. Relativistic Calculations of Coalescing Binary Neutron Stars. Faber, J.A., Grandclément, P., & Rasio, F.A. 2004, *Pramana*, **63**, 837–844.

91. Formation of Massive Black Holes in Dense Star Clusters. Rasio, F.A., Freitag, M., & Gürkan, A.M. 2004, in *Coevolution of Black Holes and Galaxies*, ed. L. Ho (Carnegie Observatories Astrophysics Series, Vol. 1, Cambridge Univ. Press), 138–152.
92. Could Black-Hole X-Ray Binaries Be Detected in Globular Clusters? Kalogera, V., King, A., & Rasio, F.A. 2004, *Astrophysical Journal Letters*, **601**, L171–L174.
93. **Formation of Massive Black Holes in Dense Star Clusters. I. Mass Segregation and Core Collapse** [242]. Gürkan, M.A., Freitag, M., & Rasio, F.A. 2004, *Astrophysical Journal*, **604**, 632–652.
94. Long-Term Stability of the Ups And Planetary System. Lystad, V., & Rasio, F.A. 2004, in *The Search for Other Worlds*, ed. S.S. Holt & D. Deming (AIP Conference Proceedings Vol. 713), 273–276.
95. Mergers of Irrotational Neutron Star Binaries in Conformally Flat Gravity. Faber, J.A., Grandclément, P., & Rasio, F.A. 2004, *Physical Review D*, **69**, 124036 (1–26).
96. **Stellar Collisions During Binary–Binary and Binary–Single Star Interactions** [162]. Fregeau, J.M., Cheung, P., Portegies Zwart, S.F., & Rasio, F.A. 2004, *Monthly Notices of the RAS*, **352**, 1–19.
97. Compact Binaries in Globular Clusters. Ivanova, N., & Rasio, F.A. 2004, in *Compact Binaries in the Galaxy and Beyond*, ed. G. Tovmassian & E. Sion (Proceedings of IAU Colloquium 194, Revista Mexicana de Astronomia y Astrofisica Conference Series, Vol. 20.), 67–70.
98. A Comprehensive Study of Young Black Hole Populations. Belczynski, K., Sadowski, A., & Rasio, F.A. 2004, *Astrophysical Journal*, **611**, 1068–1079.
99. Runaway IMBH Formation in Dense Star Clusters. Freitag, M., Gürkan, M.A., & Rasio, F.A. 2004, in *The Interplay among Black Holes, Stars and ISM in Galactic Nuclei*, ed. T. Storchi-Bergmann, L.C. Ho, & H.R. Schmitt (Proceedings of IAU Symposium 222, Cambridge Univ. Press), 167–169.

2005

100. Formation of Ultracompact X-Ray Binaries in Dense Star Clusters. Ivanova, N., Rasio, F.A., Lombardi, J.C., Jr., Dooley, K.L., & Proulx, Z.F. 2005, *Astrophysical Journal Letters*, **621**, L109–L112.
101. **Pulsars in Globular Clusters** [90]. Camilo, F., & Rasio, F.A., 2005, in *Binary Radio Pulsars*, ed. F.A. Rasio & I.H. Stairs (ASP Conference Series Vol. 328), 147–170.
102. Binary Evolution and Neutron Stars in Globular Clusters. Ivanova, N., Fregeau, J.M., & Rasio, F.A. 2005, in *Binary Radio Pulsars*, ed. F.A. Rasio & I.H. Stairs (ASP Conference Series Vol. 328), 231–241.
103. **The Evolution of Binary Fractions in Globular Clusters** [112]. Ivanova, N., Belczynski, K., Fregeau, J.M., & Rasio, F.A., 2005, *Monthly Notices of the RAS*, **358**, 572–584.
104. **Tidal Interactions and Disruptions of Giant Planets on Highly Eccentric Orbits** [68]. Faber, J.A., Rasio, F.A., & Willems, B. 2005, *Icarus*, **175**, 248–262.
105. **Planet–Planet Scattering in the Upsilon Andromedae System** [85]. Ford, E.B., Lystad, V., & Rasio, F.A. 2005, *Nature*, **434**, 873–876.
106. **High Orbital Eccentricities of Extrasolar Planets Induced by the Kozai Mechanism** [95]. Takeda, G., & Rasio, F.A. 2005, *Astrophysical Journal*, **627**, 1001–1010.
107. Relativistic SPH Calculations of Compact Binary Mergers. Rasio, F.A., Faber, J., Kobayashi, S., & Laguna, P., 2005, in *Proceedings of JGRG14*, ed. W. Hikida, M. Sasaki, T. Tanaka, & T. Nakamura (Kyoto University), 21–32.

108. **The Disruption of Stellar Clusters Containing Massive Black Holes near the Galactic Center** [63]. Gürkan, M.A., & Rasio, F.A. 2005, *Astrophysical Journal*, **628**, 236–245.
109. Formation and Evolution of Compact Binaries with an Accreting White Dwarf in Globular Clusters. Ivanova, N., & Rasio, F.A., 2005, in *Interacting Binaries: Accretion, Evolution and Outcomes*, ed. L. Burderi et al. (AIP Conference Proceedings Vol. 797), 53–61.

2006

110. Star Cluster Evolution with Primordial Binaries. Fregeau, J.M., Gürkan, M.A., & Rasio, F.A. 2006, in *The Few-Body Problem*, ed. C. Flynn (Annales Universitatis Turkuensis), 110–114.
111. Chaotic Interactions in Multiple Planet Systems. Ford, E.B., Rasio, F.A., & Yu, K. 2006, in *Planetary Systems and Planets in Systems*, ed. S. Udry, W. Benz, & R. von Steiger (ISSI Scientific Reports Series Vol. 6), 123–136.
112. **Dynamical Evolution of Black Hole – Neutron Star Binaries in General Relativity: Simulations of Tidal Disruption** [64]. Faber, J.A., Baumgarte, T.W., Shapiro, S.L., Taniguchi, K., & Rasio, F.A. 2006, *Physical Review D*, **73**, 024012 (1–31).
113. **Binary Mergers and Growth of Black Holes in Dense Star Clusters** [119]. O’Leary, R.M., Rasio, F.A., Fregeau, J.M., Ivanova, N., & O’Shaughnessy, R. 2006, *Astrophysical Journal*, **637**, 937–951.
114. **On the Relation Between Hot Jupiters and the Roche Limit** [102]. Ford, E.B., & Rasio, F.A. 2006, *Astrophysical Journal Letters*, **638**, L45–L48.
115. Stellar Collisions and Ultracompact X-ray Binary Formation. Lombardi, J.C., Jr., Proulx, Z.F., Dooley, K.L., Theriault, E.M., Ivanova, N., & Rasio, F.A., 2006, *Astrophysical Journal*, **640**, 441–458.
116. Massive Black Hole Binaries from Collisional Runaways. Gürkan, M.A., Fregeau, J.M., & Rasio, F.A. 2006, *Astrophysical Journal Letters*, **640**, L39–L42.
117. Dynamical Interactions of Planetary Systems in Dense Stellar Environments. Fregeau, J.M., Chatterjee, S., & Rasio, F.A. 2006 *Astrophysical Journal*, **640**, 1086–1098.
118. Close Binary Interactions of Intermediate-Mass Black Holes: Possible Ultra-Luminous X-ray Sources? Blecha, L., Ivanova, N., Kalogera, V., Belczynski, K., Fregeau, J.M., & Rasio, F.A., 2006, *Astrophysical Journal*, **642**, 427–437.
119. **Runaway Collisions in Young Star Clusters. I. Methods and Tests** [66]. Freitag, M., Rasio, F.A., & Baumgardt, H., 2006, *Monthly Notices of the RAS*, **368**, 121–140.
120. **Runaway Collisions in Young Star Clusters. II. Numerical Results** [139]. Freitag, M., Gürkan, A.M., & Rasio, F.A., 2006, *Monthly Notices of the RAS*, **368**, 141–161.
121. Eccentricities of Planets in Binary Systems. Takeda, G., & Rasio, F.A. 2006, *Astrophysics and Space Science*, **304**, 239–242.
122. **Observing IMBH–IMBH Binary Coalescences via Gravitational Radiation** [65]. Fregeau, J.M., Larson, S.L., Miller, M.C., O’Shaughnessy, R., & Rasio, F.A. 2006, *Astrophysical Journal Letters*, **646**, L135–L138.
123. Initial Populations of Black Holes in Star Clusters. Belczynski, K., Sadowski, A., Rasio, F.A., & Bulik, T. 2006, *Astrophysical Journal*, **650**, 303–325.
124. Black Hole – Neutron Star Binary Merger Calculations: GRB Progenitors and the Stability of Mass Transfer. Faber, J.A., Baumgarte, T.W., Shapiro, S.L., Taniguchi, K., & Rasio, F.A. 2006, in *Proceedings of the Albert Einstein Century International Conference*, ed. J.-M. Alimi & A. Fuzfa (AIP Conference Proceedings Vol. 861), 622–629.

125. **Formation and Evolution of Compact Binaries in Globular Clusters – I. Binaries with White Dwarfs** [81]. Ivanova, N., Heinke, C.O., Rasio, F.A., Taam, R.E., Belczynski, K., & Fregeau, J. 2006, *Monthly Notices of the RAS*, **372**, 1043–1059.

2007

126. Collisions Between Single Stars in Dense Clusters: Runaway Formation of a Massive Object. Freitag, M., Gürkan, A.M., & Rasio F.A. 2007, in *Massive Stars in Interacting Binaries*, ed. N. St-Louis & A.F.J. Moffat (ASP Conference Series Vol. 367), 707–714.
127. Stellar Collisions During Binary Interactions and the Effect on Runaway Collisions. Fregeau, J.M., Rasio, F.A., Cheung, P., & Portegies Zwart, S.F. 2007, in *Massive Stars in Interactive Binaries*, ed. N. St-Louis & A.F.J. Moffat (ASP Conference Series Vol. 367), 715–720.
128. **Structure and Evolution of Nearby Stars with Planets. II. Physical Properties of ~ 1000 Cool Stars from the SPOCS Catalog** [185]. Takeda, G., Ford, E.B., Sills, A., Rasio, F.A., Fischer, D.A., & Valenti, J.A. 2007, *Astrophysical Journal Supplement*, **168**, 297–328.
129. **Monte Carlo Simulations of Globular Cluster Evolution. IV. Direct Integration of Strong Interactions** [66]. Fregeau, J.M., & Rasio, F.A. 2007, *Astrophysical Journal*, **658**, 1047–1061.
130. **On the Rarity of Double Black Hole Binaries: Consequences for Gravitational Wave Detection** [124]. Belczynski, K., Taam, R.E., Kalogera, V., Rasio, F.A., & Bulik, T. 2007, *Astrophysical Journal*, **662**, 504–511.
131. Eccentric Double White Dwarfs as LISA Sources in Globular Clusters. Willems, B., Kalogera, V., Vecchio, A., Ivanova, N., Rasio, F.A., Fregeau, J.M., & Belczynski, K. 2007, *Astrophysical Journal Letters*, **665**, L59–L62.
132. Neutron Stars and Black Holes in Star Clusters. Rasio, F.A., Baumgardt, H., Corongiu, A., D’Antona, F., Fabbiano, G., Fregeau, J.M., Gebhardt, K., Heinke, C.O., Hut, P., Ivanova, N., Maccarone, T.J., Ransom, S.M., & Webb, N.A. 2007, in *Proceedings of IAU General Assembly*, ed. K.A. van der Hucht (Highlights of Astronomy, Vol. 14, Cambridge Univ. Press), 215–243.
133. Dynamical Interactions and the Black Hole Merger Rate of the Universe. O’Leary, R.M., O’Shaughnessy, R., & Rasio, F.A. 2007, *Physical Review D*, **76**, 061504 (1–5).
134. Interacting Binaries with Eccentric Orbits. I. Secular Orbital Evolution due to Conservative Mass Transfer. Sepinsky, J., Willems, B., Kalogera, V., & Rasio, F.A. 2007, *Astrophysical Journal*, **667**, 1170–1184.

2008

135. Secular Evolution of Planetary Systems in Binaries. Takeda, G., Kita, R., Rasio, F.A., & Rubinstein, S.M. 2008, in *Extreme Solar Systems*, ed. D. Fischer, F. Rasio, S. Thorsett, & A. Wolszczan (ASP Conference Series Vol. 398), 209–216.
136. Dynamically Unstable Planetary Systems Emerging Out of Gas Disks. Matsumura, S., Thommes, E.W., Chatterjee, S., & Rasio, F.A. 2008, in *Extreme Solar Systems*, ed. D. Fischer, F. Rasio, S. Thorsett, & A. Wolszczan (ASP Conference Series Vol. 398), 301–307.
137. Resonant Planets: From Stability to Violent Upheaval. Thommes, E.W., Bryden, G., Wu, Y., & Rasio, F.A. 2008, in *Extreme Solar Systems*, ed. D. Fischer, F. Rasio, S. Thorsett, & A. Wolszczan (ASP Conference Series Vol. 398), 315–324.

138. **Compact Object Modeling with the StarTrack Population Synthesis Code** [304]. Belczynski, K., Kalogera, V., Rasio, F.A., Taam, R.E., Zezas, A., Bulik, T., Maccarone, T., & Ivanova, N. 2008, *Astrophysical Journal Supplement*, **174**, 223–260.
139. Formation of Millisecond Pulsars in Globular Clusters. Ivanova, N., Heinke, C.O., & Rasio, F.A. 2008, in *Forty Years of Pulsars*, ed. V. Kaspi et al. (AIP Conference Proceedings Vol. 983), 442–447.
140. From Mean Motion Resonances to Scattered Planets: Producing the Solar System, Eccentric Exoplanets and Late Heavy Bombardments. Thommes, E.W., Bryden, G., Wu, Y., & Rasio, F.A. 2008, *Astrophysical Journal*, **675**, 1538–1548.
141. **The Total Merger Rate of Compact Object Binaries in the Local Universe** [69]. Sadowski, A., Belczynski, K., Bullik, T., Ivanova, N., Rasio, F. A., & O’Shaughnessy, R. 2008, *Astrophysical Journal*, **676**, 1162–1169.
142. Effects of Stellar Collisions on Star Cluster Evolution and Core Collapse. Chatterjee, S., Fregeau, J.M., & Rasio, F.A. 2008, in *Dynamical Evolution of Dense Stellar Systems*, ed. E. Vesperini, M. Giersz, & A. Sills (Proceedings of IAU Symposium 246, Cambridge Univ. Press), 151–155.
143. Neutron Stars in Globular Clusters. Ivanova, N., Heinke, C.O., & Rasio, F.A. 2008, in *Dynamical Evolution of Dense Stellar Systems*, ed. E. Vesperini, M. Giersz, & A. Sills (Proceedings of IAU Symposium 246, Cambridge Univ. Press), 316–320.
144. The Imprints of IMBHs on the Structure of Globular Clusters: Monte Carlo Simulations. Umbreit, S., Fregeau, J.M., & Rasio, F.A. 2008, in *Dynamical Evolution of Dense Stellar Systems*, ed. E. Vesperini, M. Giersz, & A. Sills (Proceedings of IAU Symposium 246, Cambridge Univ. Press), 351–355.
145. **Formation and Evolution of Compact Binaries in Globular Clusters – II. Binaries with Neutron Stars** [140]. Ivanova, N., Heinke, C.O., Rasio, F.A., Belczynski, K., & Fregeau, J.M. 2008, *Monthly Notices of the RAS*, **386**, 553–576.
146. Mergers of Black Hole – Neutron Star Binaries. Methods and First Results. Rantsiou, E., Kobayashi, S., Laguna, P., & Rasio, F.A. 2008, *Astrophysical Journal*, **680**, 1326–1349.
147. Clearing the Dust from Globular Clusters. Umbreit, S., Chatterjee, S., & Rasio, F.A. 2008, *Astrophysical Journal Letters*, **680**, L113–L116.
148. The Lowest-Mass Stellar Black Holes: Catastrophic Death of Neutron Stars in Gamma-Ray Bursts. Belczynski, K., O’Shaughnessy, R., Kalogera, V., Rasio, F.A., Taam, R.E., & Bulik, T. 2008, *Astrophysical Journal Letters*, **680**, L129–L132.
149. Planetary Systems in Binaries: Dynamical Classification. Takeda, G., Kita, R., & Rasio, F.A. 2008, *Astrophysical Journal*, **683**, 1063–1075.
150. **Gas Disks to Gas Giants: Simulating the Birth of Planetary Systems** [93]. Thommes, E.W., Matsumura, S., & Rasio, F.A. 2008, *Science*, **321**, 814–818.
151. **Dynamical Outcomes of Planet–Planet Scattering** [394]. Chatterjee, S., Ford, E.B., Matsumura, S., Rasio, F.A. 2008, *Astrophysical Journal*, **686**, 580–602.
152. **Origins of Eccentric Extrasolar Planets: Testing the Planet–Planet Scattering Model** [212]. Ford, E.B., & Rasio, F.A. 2008, *Astrophysical Journal*, **686**, 621–636.
153. **On the Origins of Eccentric Close-In Planets** [52]. Matsumura, S., Takeda, G., & Rasio, F.A. 2008, *Astrophysical Journal Letters*, **686**, L29–L32.

2009

154. Resonance Trapping in Protoplanetary Disks: Coplanar Systems Lee, A.T., Thommes, E.W., & Rasio, F.A. 2009, *Astrophysical Journal*, **691**, 1684–1696.
155. Induced Kozai Migration and Formation of Close-in Planets in Binaries. Takeda, G., Kita, R., & Rasio, F.A. 2009, in *Transiting Planets*, ed. F. Pont, D. Sasselov, & M.J. Holman (Proceedings of IAU Symposium 253, Cambridge Univ. Press), 181–188.
156. On the Origins of Eccentric Close-in Planets. Matsumura, S., Takeda, G., & Rasio, F.A. 2009, in *Transiting Planets*, ed. F. Pont, D. Sasselov, & M.J. Holman (Proceedings of IAU Symposium 253, Cambridge Univ. Press), 189–195.
157. The Stability and Dynamics of Planets in Tight Binary Systems. Saleh, L.A., & Rasio, F.A. 2009, *Astrophysical Journal*, **694**, 1566–1576.
158. The Dynamical Effects of White Dwarf Birth Kicks in Globular Star Clusters. Fregeau, J.M., Richer, H.B., Rasio, F.A., & Hurley, J.R. 2009, *Astrophysical Journal Letters*, **695**, L20–L24.
159. Gas Disks to Gas Giants: Simulating the Birth of Planetary Systems. Thommes, E.W., Matsumura, S., & Rasio, F.A. 2009, in *Exoplanets and Disks: Their Formation and Diversity*, ed. T. Usuda, M. Tamura, & M. Ishii (AIP Conference Proceedings Vol. 1158), 195–202.
160. Interacting Binaries with Eccentric Orbits. II. Secular Orbital Evolution due to Non-conservative Mass Transfer. Sepinsky, J.F., Willems, B., Kalogera, V., & Rasio, F.A. 2009, *Astrophysical Journal*, **702**, 1387–1392.
161. Evolution of the Binary Fraction in Dense Stellar Systems. Fregeau, J.M., Ivanova, N., & Rasio, F.A. 2009, *Astrophysical Journal*, **707**, 1533–1540.

2010

162. Unstable Planetary Systems Emerging Out of Gas Disks. Matsumura, S., Thommes, E.W., Chatterjee, S., & Rasio, F.A. 2010, *Astrophysical Journal*, **714**, 194–206.
163. Monte Carlo Simulations of Globular Cluster Evolution. V. Binary Stellar Evolution. Chatterjee, S., Fregeau, J.M., Umbreit, S., & Rasio, F.A. 2010, *Astrophysical Journal*, **719**, 915–930.
164. Pervasive Orbital Eccentricities Dictate the Habitability of Extrasolar Earths. Kita, R., Rasio, F.A., & Takeda, G. 2010, *Astrobiology*, **10**, 733–741.
165. Interacting Binaries with Eccentric Orbits. III. Orbital Evolution due to Direct Impact and Self-Accretion. Sepinsky, J.F., Willems, B., Kalogera, V., & Rasio, F.A. 2010, *Astrophysical Journal*, **724**, 546–558.
166. **Tidal Evolution of Close-in Planets** [100]. Matsumura, S., Peale, S.J., & Rasio, F.A. 2010, *Astrophysical Journal*, **725**, 1995–2016.

2011

167. **Hot Jupiters from Secular Planet–Planet Interactions** [214]. Naoz, S., Farr, W.M., Lithwick, Y., Rasio, F.A., & Teyssandier, J. 2011, *Nature*, **473**, 187–189.
168. Twin Binaries: Studies of Stability, Mass Transfer, and Coalescence. Lombardi, J.C., Jr., Holtzman, W., Dooley, K.L., Gearity, K., Kalogera, V., & Rasio, F.A. 2011, *Astrophysical Journal*, **737**, id. 49 (16 pp).
169. How Planet–Planet Scattering Can Create High-inclination as well as Long-period Orbits. Chatterjee, S., Ford, E.B., & Rasio, F.A. 2011, in *The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, ed. A. Sozzetti, M.G. Lattanzi, & A.P. Boss (Proceedings of IAU Symposium 276, Cambridge Univ. Press), 225–229.

170. The Origin of Retrograde Hot Jupiters. Naoz, S., Farr, W.M., Lithwick, Y., & Rasio, F.A. 2011, in *The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, ed. A. Sozzetti, M.G. Lattanzi, & A.P. Boss (Proceedings of IAU Symposium 276, Cambridge Univ. Press), 263–266.
171. Evolution of Planetary Systems in Dissipating Gas Disks. Matsumura, S., Thommes, E.W., Chatterjee, S., & Rasio, F.A. 2011, in *The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution*, ed. A. Sozzetti, M.G. Lattanzi, & A.P. Boss (Proceedings of IAU Symposium 276, Cambridge Univ. Press), 504–505.

2012

172. Monte Carlo Simulations of Globular Cluster Evolution. VI. The Influence of an Intermediate-mass Black Hole. Umbreit, S., Fregeau, J.M., Chatterjee, S., & Rasio, F.A. 2012, *Astrophysical Journal*, **750**, id. 31 (14 pp).
173. Formation of Massive Black Holes in Dense Star Clusters. II. Initial Mass Function and Primordial Mass Segregation. Goswami, S., Umbreit, S., Bierbaum, M., & Rasio, F.A. 2012, *Astrophysical Journal*, **752**, id. 43 (12 pp).
174. GPU-Accelerated Monte Carlo Simulations of Dense Stellar Systems. Pattabiraman, B., Umbreit, S., Liao, W., Rasio, F.A., Kalogera, V., & Choudhary, A. 2012, in *Advances in Computational Astrophysics: Methods, Tools, and Outcome*, ed. R. Capuzzo-Dolcetta, M. Limongi, and A. Tornambè (ASP Conference Series Vol. 453), 329–333.
175. **Binary Neutron Star Mergers** [108]. Faber, J.A., & Rasio, F.A. 2012, *Living Reviews in Relativity*, **15**, id. 8 (83 pp).
176. **On the Formation of Hot Jupiters in Stellar Binaries** [107]. Naoz, S., Farr, W.M., & Rasio, F.A. 2012, *Astrophysical Journal Letters*, **754**, id. L36 (6 pp).
177. Planets in Open Clusters Detectable by *Kepler*. Chatterjee, S., Ford, E.B., Geller, A.M., & Rasio, F.A. 2012, *Monthly Notices of the RAS*, **427**, 1587–1602.

2013

178. **Retention of Stellar-mass Black Holes in Globular Clusters** [54]. Morscher, M., Umbreit, S., Farr, W.M., & Rasio, F.A. 2013, *Astrophysical Journal Letters*, **763**, id. L15 (5 pp).
179. A Parallel Monte Carlo Code for Simulating Collisional N -body Systems. Pattabiraman, B., Umbreit, S., Liao, W., Choudhary, A., Kalogera, V., Memik, G., & Rasio, F.A. 2013, *Astrophysical Journal Supplement*, **204**, id. 15 (16 pp).
180. Understanding the Dynamical State of Globular Clusters: Core-Collapsed versus Non-Core-Collapsed. Chatterjee, S., Umbreit, S., Fregeau, J.M., & Rasio, F.A. 2013, *Monthly Notices of the RAS*, **429**, 2881–2893.
181. Constraining Intermediate-mass Black Holes in Globular Clusters. Umbreit, S., & Rasio, F.A. 2013, *Astrophysical Journal*, **768**, id. 26 (9 pp).
182. **Secular Dynamics in Hierarchical Three-Body Systems** [122]. Naoz, S., Farr, W.M., Lithwick, Y., Rasio, F.A., & Teyssandier, J. 2013, *Monthly Notices of the RAS*, **431**, 2155–2171.
183. Introducing CAFein, a New Computational Tool for Stellar Pulsations and Dynamic Tides. Valsecchi, F., Farr, W.M., Willems, B., Rasio, F.A., & Kalogera, V. 2013, *Astrophysical Journal*, **773**, id. 39 (16 pp).

184. Mock Observations of Blue Stragglers in Globular Cluster Models. Sills, A., Glebbeek, E., Chatterjee, S., & Rasio, F.A. 2013, *Astrophysical Journal*, **777**, id. 105 (7 pp).
185. Stellar Collisions and Blue Straggler Stars in Dense Globular Clusters. Chatterjee, S., Rasio, F.A., Sills, A., & Glebbeek, E. 2013, *Astrophysical Journal*, **777**, id. 106 (14 pp).
186. Extreme Orbital Evolution from Hierarchical Secular Coupling of Two Giant Planets. Teyssandier, J., Naoz, S., Lizarraga, I., & Rasio, F.A. 2013, *Astrophysical Journal*, **779**, id. 166 (14 pp).

2014

187. Black Holes in Young Stellar Clusters. Goswami, S., Kiel, P., & Rasio, F.A. 2014, *Astrophysical Journal*, **781**, id. 81 (14 pp).
188. Sowing the Seeds of Massive Black Holes in Small Galaxies: Young Clusters as the Building Blocks of Ultracompact Dwarf Galaxies. Amaro-Seoane, P., Konstantinidis, S., Freitag, M., Miller, M.C., & Rasio, F.A. 2014, *Astrophysical Journal*, **782**, id. 97 (14 pp).
189. **Tidal Dissipation and Obliquity Evolution in Hot Jupiter Systems** [35]. Valsecchi, F., & Rasio, F.A. 2014, *Astrophysical Journal*, **786**, id. 102 (23 pp).
190. Planets on the Edge. Valsecchi, F., & Rasio, F.A. 2014, *Astrophysical Journal Letters*, **787**, id. L9 (6 pp).
191. From Hot Jupiters to Super-Earths via Roche Lobe Overflow. Valsecchi, F., Rasio, F.A., & Steffen, J.H. 2014, *Astrophysical Journal Letters*, **793**, id. L3 (6 pp).
192. The Dynamics of the Multi-planet System Orbiting *Kepler-56*. Li, G., Naoz, S., Valsecchi, F., Johnson, J.A., & Rasio, F.A. 2014, *Astrophysical Journal*, **794**, id. 131 (9 pp).

2015

193. **The Dynamical Evolution of Stellar Black Holes in Globular Clusters** [50]. Morscher, M., Pattabiraman, B., Rodriguez, C., Rasio, F.A., & Umbreit, S. 2015, *Astrophysical Journal*, **800**, id. 9 (21 pp).
194. Stability and Coalescence of Massive Twin Binaries. Hwang, J., Lombardi, J.C., Jr., Rasio, F.A., & Kalogera, V. 2015, *Astrophysical Journal*, **806**, id. 135 (23 pp).
195. **Binary Black Hole Mergers from Globular Clusters: Implications for Advanced LIGO** [65]. Rodriguez, C.L., Morscher, M., Pattabiraman, B., Chatterjee, S., Haster, C.-J., & Rasio, F.A. 2015, *Physical Review Letters*, **115**, id. 051101 (9 pp); erratum 2016, **116**, id. 029901.
196. Tidally-driven Roche-lobe Overflow of Hot Jupiters with MESA. Valsecchi, F., Rappaport, S., Rasio, F.A., Marchant, P., & Rogers, L.A. 2015, *Astrophysical Journal*, **813**, id. 101 (13 pp).

2016

197. **Black Hole Mergers and Blue Stragglers from Hierarchical Triples Formed in Globular Clusters** [50]. Antonini, F., Chatterjee, S., Rodriguez, C.L., Morscher, M., Pattabiraman, B., Kalogera, V., & Rasio, F.A. 2016, *Astrophysical Journal*, **816**, id. 65 (16 pp).
198. **Binary Black Hole Mergers from Globular Clusters: Masses, Merger Rates, and the Impact of Stellar Evolution** [78]. Rodriguez, C.L., Chatterjee, S., & Rasio, F.A. 2016, *Physical Review D*, **93**, id. 084029 (21 pp).
199. Formation of Black Hole Low-mass X-ray Binaries in Hierarchical Triple Systems. Naoz, S., Fragos, T., Geller, A., Stephan, A.P., & Rasio, F.A. 2016, *Astrophysical Journal Letters*, **822**, id. L24 (7 pp).

200. **Dynamical Formation of the GW150914 Binary Black Hole** [52]. Rodriguez, C.L., Haster, C.-J., Chatterjee, S., Kalogera, V., & Rasio, F.A. 2016, *Astrophysical Journal Letters*, **824**, id. L8 (7 pp).
201. Distinguishing between Formation Channels for Binary Black Holes with LISA. Breivik, K., Rodriguez, C.L., Larson, S.L., Kalogera, V., & Rasio, F.A. 2016, *Astrophysical Journal Letters*, **830**, id. L18 (5 pp).
202. **Merging Black Hole Binaries in Galactic Nuclei: Implications for Advanced-LIGO Detections** [28]. Antonini, F., & Rasio, F.A. 2016, *Astrophysical Journal*, **831**, id. 187 (17 pp).
203. **Illuminating Black Hole Binary Formation Channels with Spins in Advanced LIGO** [29]. Rodriguez, C.L., Zevin, M., Pankow, C., Kalogera, V., & Rasio, F.A. 2016, *Astrophysical Journal Letters*, **832**, id. L2 (7 pp).
204. Million-Body Star Cluster Simulations: Comparisons between Monte Carlo and Direct N -body. Rodriguez, C.L., Morscher, M., Wang, L., Chatterjee, S., Rasio, F.A., & Spurzem, R. 2016, *Monthly Notices of the RAS*, **463**, 2109–2118.

2017

205. **Binary Black Holes in Dense Star Clusters: Exploring the Theoretical Uncertainties** [28]. Chatterjee, S., Rodriguez, C.L., & Rasio, F.A. 2017, *Astrophysical Journal*, **834**, id. 68 (22 pp).
206. Dynamical Formation of Low-mass Merging Black Hole Binaries like GW151226. Chatterjee, S., Rodriguez, C.L., Kalogera, V., & Rasio, F.A. 2017, *Astrophysical Journal Letters*, **836**, id. L26 (7 pp).
207. Effects of Stellar-Mass Black Holes on Massive Star Cluster Evolution. Chatterjee, S., Morscher, M., Rodriguez, C.L., Pattabiraman, B., & Rasio, F.A. 2017, in *Formation, Evolution, and Survival of Massive Star Clusters*, ed. C. Charbonnel & A. Nota (Proceedings of IAU Symposium 316, Cambridge Univ. Press), 234–239.
208. Constraining Formation Models of Binary Black Holes with Gravitational-Wave Observations. Zevin, M., Pankow, C., Rodriguez, C.L., Sampson, L., Chase, E., Kalogera, V., & Rasio, F.A. 2017, *Astrophysical Journal*, **846**, id. 82 (11 pp).
209. Evidence for Two Hot Jupiter Formation Paths. Nelson, B.E., Ford, E.B., & Rasio, F.A. 2017, *Astronomical Journal*, **154**, id. 106 (11 pp).
210. Dynamics and Collisional Evolution of Closely Packed Planetary Systems. Hwang, J.A., Steffen, J.H., Lombardi, J.C., Jr., & Rasio, F.A. 2017, *Monthly Notices of the RAS*, **470**, 4145–4162.

Statistics:

Total number of entries on ADS: 360
 Total number of refereed publications: 159
 Total citations: 10,560
 Total citations in 2016: 907
 h-index: 61
 m-index: 2.03
 g-index: 96
 i10-index: 148

Articles Submitted or Accepted for Publication

Black Hole Mergers in Galactic Nuclei Induced by the Eccentric Kozai-Lidov Effect. Hoang, B.-M., Naoz, S., Kocsis, B., Rasio, F.A., & Dosopoulou, F., submitted to *Astrophysical Journal*, arXiv:1706.09896 [astro-ph.HE].

Hydrodynamics of Collisions Between Sub-Neptunes. Hwang, J., Chatterjee, S., Lombardi, J.C., Jr., Steffen, J., & Rasio, F.A., submitted to *Astrophysical Journal*, arXiv:1707.01628 [astro-ph.EP].

Accreting Black Hole Binaries in Globular Clusters. Kremer, K., Chatterjee, S., Rodriguez, C.L., & Rasio, F.A. submitted to *Astrophysical Journal*, arXiv:1709.05444 [astro-ph.HE].

Magazine Articles

Book Review: *The Gravitational Million-Body Problem: A Multidisciplinary Approach to Star Cluster Dynamics* by Douglas Heggie and Piet Hut, reviewed by F.A. Rasio, *Physics Today*, Volume 57, no. 5, May 2004.

Perspective: *A Black Widow's Best Friend?* F.A. Rasio, *Science*, Volume 333, Issue 6050, 23 September 2011.

Books Edited

Binary Radio Pulsars. F.A. Rasio & I.H. Stairs, editors (ASP Conference Series Vol. 328, 2005). ISBN: 1-58381-191-5.

Extreme Solar Systems. D. Fischer, F.A. Rasio, S.E. Thorsett, & A. Wolszczan, editors (ASP Conference Series Vol. 398, 2008). ISBN: 978-1-58381-666-0.

White Papers

Role of Dynamical Research in the Detection and Characterization of Exoplanets. Ford, E.B., Adams, F.C., Armitage, P., Gaudi, B.S., Malhotra, R., Holman, M.J., Marcy, G.W., Rasio, F.A., & Sigurdsson, S. 2007, White Paper for the NASA ExoPlanet Task Force, arXiv:0705.2781 [astro-ph].

Employment & Funding in Astronomy. Seth, A., Agüeros, M., Covey, K., Danner, R., Jang-Condell, H., Metcalfe, T., Modjaz, M., Rasio, F.A., Redfield, S., Sheth, K., Waller, W., West, A., & Yoachim, P. 2009, Astro2010: The Astronomy and Astrophysics Decadal Survey, Position Papers, no. 51, <http://adsabs.harvard.edu/abs/2009astro2010P..51S> (8pp).

From Discovery to Understanding: Principles for Maximizing Scientific Return on Exoplanet Research. Ford, E.B., Adams, F.C., Agol, E., Armitage, P., Gaudi, B.S., Haghighipour, N., Holman, M.J., Laughlin, G., Lin, D.N.C., Malhotra, R., Marcy, G.W., Quillen, A.C., Rasio, F.A., & Sigurdsson, S. 2009, Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers, no. 80, <http://adsabs.harvard.edu/abs/2009astro2010S..80F> (8pp).

The Galactic Center: A Laboratory for Fundamental Astrophysics and Galactic Nuclei. Ghez, A., Morris, M., Lu, J., Weinberg, N., Matthews, K., Alexander, T., Armitage, P., Becklin, E., Brown, W., Campbell, R., Do, T., Eckart, A., Genzel, R., Gould, A., Hansen, B., Ho, L., Lo, F., Loeb, A., Melia, F., Merritt, D., Milosavljevic, M., Perets, H., Rasio, F., Reid, M., Salim, S., Schödel, R., & Yelda, S. 2009, Astro2010: The Astronomy and Astrophysics Decadal Survey, Science White Papers, no. 89, <http://adsabs.harvard.edu/abs/2009astro2010S..89G> (7pp).

Editorials

Editorial: *ApJ Letters Transition*. Rasio, F.A. 2013, *Astrophysical Journal Letters*, **762**, id. L1.

Editorial: *Our Last Printed Issue*. Vishniac, E., & Rasio, F.A. 2014, *Astrophysical Journal*, **797**, id. 73.

Editorial: *Our Last Printed Issue*. Vishniac, E., & Rasio, F.A. 2014, *Astrophysical Journal Letters*, **797**, id. L12.

Editorial: *Our Last Printed Issue*. Vishniac, E., & Rasio, F.A. 2014, *Astrophysical Journal Supplement*, **215**, id. 16.