

Frederic A. Rasio — List of Publications

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Articles Published in Books and Refereed Journals

The most significant 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.

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.

1990

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.

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** [146]. Rasio, F.A., & Shapiro, S.L. 1991, *The Astrophysical Journal*, **377**, 559–580.

1992

8. **An Observational Test for the Existence of a Planetary System Orbiting PSR 1257+12** [78]. 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** [152]. Rasio, F.A., & Shapiro, S.L. 1992, *The Astrophysical Journal*, **401**, 226–245.

1993

11. Hydrodynamic Instability and Coalescence of Close Binary Systems. 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** [251]. Lai, D., Rasio, F.A., & Shapiro, S.L. 1993, *The Astrophysical Journal Supplement*, **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** [156]. 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. 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** [404]. Loeb, A., & Rasio, F.A. 1994, *The Astrophysical Journal*, **432**, 52–61.
21. **Hydrodynamics of Binary Coalescence. I. Polytropes with Stiff Equations of State** [161]. 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.
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, *The 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, *The Astrophysical Journal Letters*, **438**, L33–L36.

28. **Hydrodynamics of Binary Coalescence. II. Polytropes with $\Gamma=5/3$** [201]. Rasio, F.A., & Shapiro, S.L. 1995, *The 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** [164]. Rasio, F.A. 1995, *The Astrophysical Journal Letters*, **444**, L41–L43.
31. **On Blue Straggler Formation by Direct Collisions of Main–Sequence Stars** [110]. 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.

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** [109]. 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** [153]. 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** [411]. 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** [120]. Rasio, F.A., & Livio, M. 1996, *The 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** [1,075]. 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, *The Astrophysical Journal*, **479**, 948–959; erratum 1997, **488**, 901.
46. Post-Newtonian Models of Binary Neutron Stars 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** [120]. Sills, A., Lombardi, J.C., Jr., Bailyn, C.D., Demarque, P., Rasio, F.A., & Shapiro, S.L. 1997, *The 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 Ford, E.B., Rasio, F.A., & Sills, A. 1999, *The 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** [84]. 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, *The Astrophysical Journal*, **528**, 336–350.
57. **Formation of Short-Period Binary Pulsars in Globular Clusters** [123]. Rasio, F.A., Pfahl, E.D., & Rappaport, S.A. 2000, *The 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** [414]. Ford, E.B., Kozinsky, B., & Rasio, F.A. 2000, *The 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, *The Astrophysical Journal*, **539**, 331–341.
61. **Monte Carlo Simulations of Globular Cluster Evolution. I. Method and Test Calculations** [189]. Joshi, K.J., Rasio, F.A., & Portegies Zwart, S. 2000, *The 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** [120]. Sills, A., Faber, J.A., Lombardi, J.C., Jr., Rasio, F.A., & Warren, A.R. 2001, *The 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** [120]. Joshi, K.J., Nave, C.P., & Rasio, F.A. 2001, *The Astrophysical Journal*, **550**, 691–702.
75. **Dynamical Instabilities in Extrasolar Planetary Systems Containing Two Giant Planets** [162]. 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** [160]. Lombardi, J.C., Warren, J.S., Rasio, F.A., Sills, A., & Warren, A.R. 2002, *The 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, *The Astrophysical Journal*, **570**, 171–183.
81. Measuring Neutron-Star Radii with Gravitational-Wave Detectors. 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, *The Astrophysical Journal*, **586**, 1364–1373.
87. **The Role of Helium Stars in the Formation of Double Neutron Stars** [131]. Ivanova, N., Belczynski, K., Kalogera, V., Rasio, F.A., & Taam, R.E. 2003, *The Astrophysical Journal*, **592**, 475–485.
88. **Monte Carlo Simulations of Globular Cluster Evolution. III. Primordial Binary Interactions** [153]. Fregeau, J.M., Gürkan, A.M., Joshi, K.J., & Rasio, F.A. 2003, *The 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, *The Astrophysical Journal Letters*, **601**, L171–L174.
93. **Formation of Massive Black Holes in Dense Star Clusters. I. Mass Segregation and Core Collapse** [390]. Gürkan, M.A., Freitag, M., & Rasio, F.A. 2004, *The 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** [351]. 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, *The 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, *The Astrophysical Journal Letters*, **621**, L109–L112.
101. **Pulsars in Globular Clusters** [128]. 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** [196]. 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** [118]. Faber, J.A., Rasio, F.A., & Willems, B. 2005, *Icarus*, **175**, 248–262.
105. **Planet–Planet Scattering in the Upsilon Andromedae System** [105]. 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** [129]. Takeda, G., & Rasio, F.A. 2005, *The 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. Gürkan, M.A., & Rasio, F.A. 2005, *The 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. 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** [314]. O’Leary, R.M., Rasio, F.A., Fregeau, J.M., Ivanova, N., & O’Shaughnessy, R. 2006, *The Astrophysical Journal*, **637**, 937–951.
114. **On the Relation Between Hot Jupiters and the Roche Limit** [140]. Ford, E.B., & Rasio, F.A. 2006, *The 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, *The Astrophysical Journal*, **640**, 441–458.
116. **Massive Black Hole Binaries from Collisional Runaways** [109]. Gürkan, M.A., Fregeau, J.M., & Rasio, F.A. 2006, *The 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 *The 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, *The Astrophysical Journal*, **642**, 427–437.
119. **Runaway Collisions in Young Star Clusters. I. Methods and Tests** [103]. 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** [244]. 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. Fregeau, J.M., Larson, S.L., Miller, M.C., O’Shaughnessy, R., & Rasio, F.A. 2006, *The 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, *The 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** [152]. 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** [291]. Takeda, G., Ford, E.B., Sills, A., Rasio, F.A., Fischer, D.A., & Valenti, J.A. 2007, *The Astrophysical Journal Supplement*, **168**, 297–328.
129. **Monte Carlo Simulations of Globular Cluster Evolution. IV. Direct Integration of Strong Interactions** [159]. Fregeau, J.M., & Rasio, F.A. 2007, *The Astrophysical Journal*, **658**, 1047–1061.
130. **On the Rarity of Double Black Hole Binaries: Consequences for Gravitational Wave Detection** [222]. Belczynski, K., Taam, R.E., Kalogera, V., Rasio, F.A., & Bulik, T. 2007, *The 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, *The 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: Secular Orbital Evolution due to Conservative Mass Transfer** [110]. Sepinsky, J., Willems, B., Kalogera, V., & Rasio, F.A. 2007, *The 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** [761]. Belczynski, K., Kalogera, V., Rasio, F.A., Taam, R.E., Zezas, A., Bulik, T., Maccarone, T., & Ivanova, N. 2008, *The 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, *The Astrophysical Journal*, **675**, 1538–1548.
141. **The Total Merger Rate of Compact Object Binaries in the Local Universe** [129]. Sadowski, A., Belczynski, K., Bulik, T., Ivanova, N., Rasio, F. A., & O’Shaughnessy, R. 2008, *The 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** [291]. 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, *The Astrophysical Journal*, **680**, 1326–1349.
147. Clearing the Dust from Globular Clusters. Umbreit, S., Chatterjee, S., & Rasio, F.A. 2008, *The 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, *The Astrophysical Journal Letters*, **680**, L129–L132.
149. Planetary Systems in Binaries: Dynamical Classification. Takeda, G., Kita, R., & Rasio, F.A. 2008, *The Astrophysical Journal*, **683**, 1063–1075.
150. **Gas Disks to Gas Giants: Simulating the Birth of Planetary Systems** [119]. Thommes, E.W., Matsumura, S., & Rasio, F.A. 2008, *Science*, **321**, 814–818.
151. **Dynamical Outcomes of Planet–Planet Scattering** [854]. Chatterjee, S., Ford, E.B., Matsumura, S., Rasio, F.A. 2008, *The Astrophysical Journal*, **686**, 580–602.

152. **Origins of Eccentric Extrasolar Planets: Testing the Planet–Planet Scattering Model** [445]. Ford, E.B., & Rasio, F.A. 2008, *The Astrophysical Journal*, **686**, 621–636.
153. On the Origins of Eccentric Close-In Planets. Matsumura, S., Takeda, G., & Rasio, F.A. 2008, *The 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, *The 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, *The 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, *The 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 Evolution due to Non-conservative Mass Transfer. Sepinsky, J.F., Willems, B., Kalogera, V., & Rasio, F.A. 2009, *The Astrophysical Journal*, **702**, 1387–1392.
161. Evolution of the Binary Fraction in Dense Stellar Systems. Fregeau, J.M., Ivanova, N., & Rasio, F.A. 2009, *The 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, *The Astrophysical Journal*, **714**, 194–206.
163. **Monte Carlo Simulations of Globular Cluster Evolution. V. Binary Stellar Evolution** [101]. Chatterjee, S., Fregeau, J.M., Umbreit, S., & Rasio, F.A. 2010, *The 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, *The Astrophysical Journal*, **724**, 546–558.
166. **Tidal Evolution of Close-in Planets** [186]. Matsumura, S., Peale, S.J., & Rasio, F.A. 2010, *The Astrophysical Journal*, **725**, 1995–2016.

2011

167. **Hot Jupiters from Secular Planet–Planet Interactions** [493]. 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, *The 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, *The 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, *The 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** [257]. 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** [269]. Naoz, S., Farr, W.M., & Rasio, F.A. 2012, *The 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** [135]. Morscher, M., Umbreit, S., Farr, W.M., & Rasio, F.A. 2013, *The 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, *The 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, *The Astrophysical Journal*, **768**, id. 26 (9 pp).

182. **Secular Dynamics in Hierarchical Three-Body Systems** [419]. 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, *The 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, *The 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, *The 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, *The Astrophysical Journal*, **779**, id. 166 (14 pp).

2014

187. Black Holes in Young Stellar Clusters. Goswami, S., Kiel, P., & Rasio, F.A. 2014, *The 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, *The Astrophysical Journal*, **782**, id. 97 (14 pp).
189. Tidal Dissipation and Obliquity Evolution in Hot Jupiter Systems. Valsecchi, F., & Rasio, F.A. 2014, *The Astrophysical Journal*, **786**, id. 102 (23 pp).
190. Planets on the Edge. Valsecchi, F., & Rasio, F.A. 2014, *The 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, *The 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, *The Astrophysical Journal*, **794**, id. 131 (9 pp).

2015

193. **The Dynamical Evolution of Stellar Black Holes in Globular Clusters** [287]. Morscher, M., Pattabiraman, B., Rodriguez, C., Rasio, F.A., & Umbreit, S. 2015, *The 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, *The Astrophysical Journal*, **806**, id. 135 (23 pp).
195. **Binary Black Hole Mergers from Globular Clusters: Implications for Advanced LIGO** [418]. 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, *The Astrophysical Journal*, **813**, id. 101 (13 pp).

2016

197. **Black Hole Mergers and Blue Stragglers from Hierarchical Triples Formed in Globular Clusters** [242]. Antonini, F., Chatterjee, S., Rodriguez, C.L., Morscher, M., Pattabiraman, B., Kalogera, V., & Rasio, F.A. 2016, *The Astrophysical Journal*, **816**, id. 65 (16 pp).
198. **Binary Black Hole Mergers from Globular Clusters: Masses, Merger Rates, and the Impact of Stellar Evolution** [598]. 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, *The Astrophysical Journal Letters*, **822**, id. L24 (7 pp).
200. **Dynamical Formation of the GW150914 Binary Black Hole** [226]. Rodriguez, C.L., Haster, C.-J., Chatterjee, S., Kalogera, V., & Rasio, F.A. 2016, *The Astrophysical Journal Letters*, **824**, id. L8 (7 pp).
201. **Distinguishing between Formation Channels for Binary Black Holes with LISA** [177]. Breivik, K., Rodriguez, C.L., Larson, S.L., Kalogera, V., & Rasio, F.A. 2016, *The Astrophysical Journal Letters*, **830**, id. L18 (5 pp).
202. **Merging Black Hole Binaries in Galactic Nuclei: Implications for Advanced-LIGO Detections** [441]. Antonini, F., & Rasio, F.A. 2016, *The Astrophysical Journal*, **831**, id. 187 (17 pp).
203. **Illuminating Black Hole Binary Formation Channels with Spins in Advanced LIGO** [351]. Rodriguez, C.L., Zevin, M., Pankow, C., Kalogera, V., & Rasio, F.A. 2016, *The 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** [142]. Chatterjee, S., Rodriguez, C.L., & Rasio, F.A. 2017, *The 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, *The 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** [179]. Zevin, M., Pankow, C., Rodriguez, C.L., Sampson, L., Chase, E., Kalogera, V., & Rasio, F.A. 2017, *The 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, *The 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.

2018

211. Accreting Black Hole Binaries in Globular Clusters. Kremer, K., Chatterjee, S., Rodriguez, C.L., & Rasio, F.A. 2018, *The Astrophysical Journal*, **852**, id. 29 (12 pp).
212. Outcomes of Grazing Impacts between Sub-Neptunes in Kepler Multis. Hwang, J., Chatterjee, S., Steffen, J.H., Lombardi, J., Jr., & Rasio, F. 2018, *The Astrophysical Journal*, **852**, id. 41 (24 pp).
213. How Black Holes Shape Globular Clusters: Modeling NGC 3201. Kremer, K., Ye, C.S., Chatterjee, S., Rodriguez, C.L., & Rasio, F.A. 2018, *The Astrophysical Journal Letters*, **855**, id. L15 (7 pp).
214. **Black Hole Mergers in Galactic Nuclei Induced by the Eccentric Kozai-Lidov Effect** [310]. Hoang, B.-M., Naoz, S., Kocsis, B., Rasio, F.A., & Dosopoulou, F. 2018, *The Astrophysical Journal*, **856**, id. 140 (10 pp).
215. **Post-Newtonian Dynamics in Dense Star Clusters: Highly Eccentric, Highly Spinning, and Repeated Binary Black Hole Mergers** [353]. Rodriguez, C.L., Amaro-Seoane, P., Chatterjee, S., & Rasio, F.A. 2018, *Physical Review Letters*, **120**, id. 151101 (10 pp).
216. LISA Sources in Milky Way Globular Clusters. Kremer, K., Chatterjee, S., Breivik, K., Rodriguez, C.L., Larson, S.L., & Rasio, F.A. 2018, *Physical Review Letters*, **120**, id. 191103 (6 pp).
217. Predicting Stellar-mass Black Hole Populations in Globular Clusters. Weatherford, N.C., Chatterjee, S., Rodriguez, C.L., & Rasio, F.A. 2018, *The Astrophysical Journal*, **864**, id. 13 (16 pp).
218. A New Hybrid Technique for Modeling Dense Star Clusters. Rodriguez, C.L., Pattabiraman, B., Chatterjee, S., Choudhary, A., Liao, W., Morscher, M., & Rasio, F.A. 2018, *Computational Astrophysics & Cosmology*, **5**, id. 5 (22 pp).
219. Survival of Non-coplanar, Closely Packed Planetary Systems After a Close Encounter. Rice, D.R., Rasio, F.A., & Steffen, J.H. 2018, *Monthly Notices of the RAS*, **481**, 2205–2212.
220. **Post-Newtonian Dynamics in Dense Star Clusters: Formation, Masses, and Merger Rates of Highly-Eccentric Black Hole Binaries** [294]. Rodriguez, C.L., Amaro-Seoane, P., Chatterjee, S., Kremer, K., Rasio, F.A., Samsing, J., Ye, C.S., & Zevin, M. 2018, *Physical Review D*, **98**, id. 123005 (16 pp).

2019

221. **How Initial Size Governs Core Collapse in Globular Clusters** [102]. Kremer, K., Chatterjee, S., Ye, C.S., Rodriguez, C.L., & Rasio, F.A. 2019, *The Astrophysical Journal*, **871**, id. 38 (12 pp).
222. In Search of the Thermal Eccentricity Distribution. Geller, A.M., Leigh, N.W.C., Giersz, M., Kremer, K., & Rasio, F.A. 2019, *The Astrophysical Journal*, **872**, id. 165 (14 pp).
223. **Post-Newtonian Dynamics in Dense Star Clusters: Binary Black Holes in the LISA Band** [104]. Kremer, K., Rodriguez, C.L., Amaro-Seoane, P., Breivik, K., Chatterjee, S., Katz, M.L., Larson, S.L., Rasio, F.A., Samsing, J., Ye, C.S., & Zevin, M. 2019, *Physical Review D*, **99**, id. 063003 (12 pp).
224. **Millisecond Pulsars and Black Holes in Globular Clusters** [105]. Ye, C.S., Kremer, K., Chatterjee, S., Rodriguez, C.L., & Rasio, F.A. 2019, *The Astrophysical Journal*, **877**, id. 122 (10 pp).
225. Tidal Disruptions of Stars by Black Hole Remnants in Dense Star Clusters. Kremer, K., Lu, W., Rodriguez, C.L., Lachat, M., & Rasio, F.A. 2019, *The Astrophysical Journal*, **881**, id. 75 (15 pp).

226. **Black Holes: The Next Generation—Repeated Mergers in Dense Star Clusters and their Gravitational Wave Properties** [360]. Rodriguez, C.L., Zevin, M., Amaro-Seoane, P., Chatterjee, S., Kremer, K., Rasio, F.A., & Ye, C.S. 2019, *Physical Review D*, **100**, id. 043027 (15 pp).
227. Probing the Survival of Planetary Systems in Globular Clusters with Tidal Disruption Events. Kremer, K., D’Orazio, D.J., Samsing, J., Chatterjee, S., & Rasio, F.A. 2019, *The Astrophysical Journal*, **885**, id. 2 (15 pp).

2020

228. **On the Rate of Neutron Star Binary Mergers from Globular Clusters** [167]. Ye, C.S., Fong, W.-f., Kremer, K., Rodriguez, C.L., Chatterjee, S., Fragione, G., & Rasio, F.A. 2020, *The Astrophysical Journal Letters*, **888**, id. L10 (13 pp).
229. The Role of “Black Hole Burning” in the Evolution of Dense Star Clusters. Kremer, K., Ye, C.S., Chatterjee, S., Rodriguez, C.L., & Rasio, F.A. 2020, in *Star Clusters: From the Milky Way to the Early Universe*, ed. A. Bragaglia et al. (Proceedings of IAU Symposium 351, Cambridge Univ. Press), 357–366.
230. Modeling Pulsars in Dense Star Clusters. Ye, C.S., Kremer, K., Chatterjee, S., Rodriguez, C.L., & Rasio, F.A. 2020, in *Star Clusters: From the Milky Way to the Early Universe*, ed. A. Bragaglia et al. (Proceedings of IAU Symposium 351, Cambridge Univ. Press), 549–553.
231. **Modeling Dense Star Clusters in the Milky Way and Beyond with the CMC Cluster Catalog** [240]. Kremer, K., Ye, C.S., Rui, N.Z., Weatherford, N.C., Chatterjee, S., Fragione, G., Rodriguez, C.L., Spera, M., & Rasio, F.A. 2020, *The Astrophysical Journal Supplement*, **247**, id. 48 (44 pp).
232. Merging Black Holes in the Low-mass and High-mass Gaps from 2 + 2 Quadruple Systems. Fragione, G., Loeb, A., & Rasio, F.A. 2020, *The Astrophysical Journal Letters*, **895**, id. L15 (8 pp).
233. GW190412 as a Third-generation Black Hole Merger from a Super Star Cluster. Rodriguez, C.L., Kremer, K., Grudić, M.Y., Hafen, Z., Chatterjee, S., Fragione, G., Lamberts, A., Martinez, M.A.S., Rasio, F.A., Weatherford, N., & Ye, C.S. 2020, *The Astrophysical Journal Letters*, **896**, id. L10 (7 pp).
234. Gravitational-wave Captures by Intermediate-mass Black Holes in Galactic Nuclei. Fragione, G., Loeb, A., Kremer, K., & Rasio, F.A. 2020, *The Astrophysical Journal*, **897**, id. 46 (10 pp).
235. **COSMIC Variance in Binary Population Synthesis** [348]. Breivik, K., Coughlin, S.C., Zevin, M., Rodriguez, C.L., Kremer, K., Ye, C.S., Andrews, J.J., Kurkowski, M., Digman, M.C., Larson, S.L., & Rasio, F.A. 2020, *The Astrophysical Journal*, **898**, id. 71 (14 pp).
236. A Dynamical Survey of Stellar-mass Black Holes in 50 Milky Way Globular Clusters. Weatherford, N.C., Chatterjee, S., Kremer, K., & Rasio, F.A. 2020, *The Astrophysical Journal*, **898**, id. 162 (23 pp).
237. Demographics of Triple Systems in Dense Star Clusters. Fragione, G., Martinez, M.A.S., Kremer, K., Chatterjee, S., Rodriguez, C.L., Ye, C.S., Weatherford, N.C., Naoz, S., & Rasio, F.A. 2020, *The Astrophysical Journal*, **900**, id. 16 (28 pp).
238. **On the Origin of GW190521-like Events from Repeated Black Hole Mergers in Star Clusters** [119]. Fragione, G., Loeb, A., & Rasio, F.A. 2020, *The Astrophysical Journal Letters*, **902**, id. L26 (8 pp).
239. **Populating the Upper Black Hole Mass Gap through Stellar Collisions in Young Star Clusters** [161]. Kremer, K., Spera, M., Becker, D., Chatterjee, S., Di Carlo, U.N.,

Fragione, G., Rodriguez, C.L., Ye, C.S., & Rasio, F.A. 2020, *The Astrophysical Journal*, **903**, id. 45 (18 pp).

240. **Black Hole Mergers from Hierarchical Triples in Dense Star Clusters** [106]. Martinez, M.A.S., Fragione, G., Kremer, K., Chatterjee, S., Rodriguez, C.L., Samsing, J., Ye, C.S., Weatherford, N.C., Zevin, M., Naoz, S., & Rasio, F.A. 2020, *The Astrophysical Journal*, **903**, id. 67 (17 pp).

2021

241. The Observed Rate of Binary Black Hole Mergers can be Entirely Explained by Globular Clusters. Rodriguez, C.L., Kremer, K., Chatterjee, S., Fragione, G., Loeb, A., Rasio, F.A., Weatherford, N.C., & Ye, C.S. 2021, *Research Notes of the AAS*, **5**, id. 19.
242. Black Hole Mergers from Star Clusters with Top-heavy Initial Mass Functions. Weatherford, N.C., Fragione, G., Kremer, K., Chatterjee, S., Ye, C.S., Rodriguez, C.L., & Rasio, F.A. 2021, *The Astrophysical Journal Letters*, **907**, id. L25 (8 pp).
243. **Intermediate-mass Black Holes from High Massive-star Binary Fractions in Young Star Clusters** [116]. González, E., Kremer, K., Chatterjee, S., Fragione, G., Rodriguez, C.L., Weatherford, N.C., Ye, C.S., & Rasio, F.A. 2021, *The Astrophysical Journal Letters*, **908**, id. L29 (7 pp).
244. No Black Holes in NGC 6397. Rui, N.Z., Weatherford, N.C., Kremer, K., Chatterjee, S., Fragione, G., Rasio, F.A., Rodriguez, C.L., & Ye, C.S. 2021, *Research Notes of the AAS*, **5**, id. 47.
245. Fast Optical Transients from Stellar-mass Black Hole Tidal Disruption Events in Young Star Clusters. Kremer, K., Lu, W., Piro, A.L., Chatterjee, S., Rasio, F.A., & Ye, C.S. 2021, *The Astrophysical Journal*, **911**, id. 104 (13 pp).
246. Matching Globular Cluster Models to Observations. Rui, N.Z., Kremer, K., Weatherford, N.C., Chatterjee, S., Rasio, F.A., Rodriguez, C.L., & Ye, C.S. 2021, *The Astrophysical Journal*, **912**, id. 102 (17 pp).
247. White Dwarf Subsystems in Core-Collapsed Globular Clusters. Kremer, K., Rui, N.Z., Weatherford, N.C., Chatterjee, S., Fragione, G., Rasio, F.A., Rodriguez, C.L., & Ye, C.S. 2021, *The Astrophysical Journal*, **917**, id. 28 (19 pp).
248. Impact of Natal Kicks on Merger Rates and Spin-Orbit Misalignments of Black Hole – Neutron Star Mergers. Fragione, G., Loeb, A., & Rasio, F.A. 2021, *The Astrophysical Journal Letters*, **918**, id. L38 (5 pp).

2022

249. **Modeling Dense Star Clusters in the Milky Way and beyond with the Cluster Monte Carlo Code** [122]. Rodriguez, C.L., Weatherford, N.C., Coughlin, S.C., Amaro-Seoane, P., Breivik, K., Chatterjee, S., Fragione, G., Kiroğlu, F., Kremer, K., Rui, N.Z., Ye, C.S., Zevin, M., & Rasio, F.A. 2022, *The Astrophysical Journal Supplement*, **258**, id. 22 (21 pp).
250. **Repeated Mergers, Mass-gap Black Holes, and Formation of Intermediate-mass Black Holes in Dense Massive Star Clusters** [105]. Fragione, G., Kocsis, B., Rasio, F.A., & Silk, J. 2022, *The Astrophysical Journal*, **927**, id. 231 (13 pp).
251. Gravitational Microlensing Rates in Milky Way Globular Clusters. Kiroğlu, F., Weatherford, N.C., Kremer, K., Ye, C.S., Fragione, G., & Rasio, F.A. 2022, *The Astrophysical Journal*, **928**, id. 181 (13 pp).

252. Compact Object Modeling in the Globular Cluster 47 Tucanae. Ye, C.S., Kremer, K., Rodriguez, C.L., Rui, N.Z., Weatherford, N.C., Chatterjee, S., Fragione, G., & Rasio, F.A. 2022, *The Astrophysical Journal*, **931**, id. 84 (17 pp).
253. Merger Rates of Intermediate-mass Black Hole Binaries in Nuclear Star Clusters. Fragione, G., Loeb, A., Kocsis, B., & Rasio, F.A. 2022, *The Astrophysical Journal*, **933**, id. 170 (9 pp).
254. Hydrodynamics of Collisions and Close Encounters between Stellar Black Holes and Main-sequence Stars. Kremer, K., Lombardi, J.C., Lu, W., Piro, A.L., & Rasio, F.A. 2022, *The Astrophysical Journal*, **933**, id. 203 (18 pp).
255. Formation of Low-mass Black Holes and Single Millisecond Pulsars in Globular Clusters. Kremer, K., Ye, C.S., Kiroğlu, F., Lombardi, J.C., Ransom, S.M., & Rasio, F.A. 2022, *The Astrophysical Journal Letters*, **934**, id. L1 (12 pp).
256. Intermediate-mass Black Holes on the Run from Young Star Clusters. González Prieto, E., Kremer, K., Fragione, G., Martinez, M.A.S., Weatherford, N.C., Zevin, M., & Rasio, F.A. 2022, *The Astrophysical Journal*, **940**, id. 131 (13 pp).

2023

257. Stellar Escape from Globular Clusters. I. Escape Mechanisms and Properties at Ejection. Weatherford, N.C., Kiroğlu, F., Fragione, G., Chatterjee, S., Kremer, K., & Rasio, F.A. 2023, *The Astrophysical Journal*, **946**, id. 104 (24 pp).
258. Partial Tidal Disruptions of Main-Sequence Stars by Intermediate-Mass Black Holes. Kiroğlu, F., Lombardi, J.C., Kremer, K., Fragione, G., Fogarty, S., & Rasio, F.A. 2023, *The Astrophysical Journal*, **948**, id. 89 (15 pp).
259. Demographics of Hierarchical Black Hole Mergers in Dense Star Clusters. Fragione, G., & Rasio, F.A. 2023, *The Astrophysical Journal*, **951**, id. 129 (16 pp).
260. Growing Black Holes through Successive Mergers in Galactic Nuclei: I. Methods and First Results. Atallah, D., Trani, A.A., Kremer, K., Weatherford, N.C., Fragione, G., Spera, M., & Rasio, F.A. 2023, *Monthly Notices of the RAS*, **523**, 4227–4250.

2024

261. Single Millisecond Pulsars from Dynamical Interaction Processes in Dense Star Clusters. Ye, C.S., Kremer, K., Ransom, S.M., & Rasio, F.A. 2024, *The Astrophysical Journal*, **961**, id. 98 (14 pp).
262. Binary Black Hole Mergers and Intermediate-mass Black Holes in Dense Star Clusters with Collisional Runaways. Purohit, R.A., Fragione, G., Rasio, F.A., Petter, G.C., & Hickox, R.C. 2024, *Astronomical Journal*, **167**, id. 191 (10 pp).
263. Stellar Escape from Globular Clusters. II. Clusters May Eat Their Own Tails. Weatherford, N.C., Rasio, F.A., Chatterjee, S., Fragione, G., Kiroğlu, F., & Kremer, K. 2024, *The Astrophysical Journal*, **967**, id. 42 (27 pp).
264. Intermediate-mass Black Hole Progenitors from Stellar Collisions in Dense Star Clusters. González Prieto, E., Weatherford, N.C., Fragione, G., Kremer, K., & Rasio, F.A. 2024, *The Astrophysical Journal*, **969**, id. 29 (15 pp).
265. On Binary Formation from Three Initially Unbound Bodies. Atallah, D., Weatherford, N.C., Trani, A.A., & Rasio, F.A. 2024, *The Astrophysical Journal*, **970**, id. 112 (21 pp).
266. Lower-mass-gap Black Holes in Dense Star Clusters. Ye, C.S., Kremer, K., Ransom, S.M., & Rasio, F.A. 2024, *The Astrophysical Journal*, **975**, id. 77 (14 pp).

267. Can Slow Pulsars in Milky Way Globular Clusters Form via Partial Recycling? Kremer, K., Ye, C.S., Heinke, C.O., Piro, A.L., Ransom, S.M., & Rasio, F.A. 2024, *The Astrophysical Journal Letters*, **977**, id. L42 (7 pp).

2025

268. Black Hole Accretion and Spin-up through Stellar Collisions in Dense Star Clusters. Kiroğlu, F., Kremer, K., Biscoveanu, S., González Prieto, E., & Rasio, F.A. 2025, *The Astrophysical Journal*, **979**, id. 237 (12 pp).
269. Formation of Stripped Stars from Stellar Collisions in Galactic Nuclei. Gibson, C.F.A., Kiroğlu, F., Lombardi, J.C., Rose, S.C., Vanderzyden, H.D., Mockler, B., Gallegos-Garcia, M., Kremer, K., Ramirez-Ruiz, E., & Rasio, F.A. 2025 *The Astrophysical Journal*, **980**, id. 109 (19 pp).
270. Spin–Orbit Alignment in Merging Binary Black Holes Following Collisions with Massive Stars. Kiroğlu, F., Lombardi, J.C., Jr., Kremer, K., Vanderzyden, H.D., & Rasio, F.A. 2025, *The Astrophysical Journal Letters*, **983**, id. L9 (10 pp).
271. Beyond Hierarchical Mergers: Accretion-driven Origins of Massive, Highly Spinning Black Holes in Dense Star Clusters. Kiroğlu, F., Kremer, K., & Rasio, F.A. 2025, *The Astrophysical Journal Letters*, **994**, id. L37 (9 pp).

2026

272. Intruder Alert: Breaking Resonant Chains with Planetesimal Flybys. Li, J., O’Connor, C.E., & Rasio, F.A. 2026, *The Astrophysical Journal Letters*, **998**, id. L5 (13 pp).
273. Modeling Stellar Collisions in Galactic Nuclei Using Hydrodynamic Simulations and Machine Learning. Rose, S.C., Lombardi, J.C., Jr., González Prieto, E., Kiroğlu, F., & Rasio, F.A. 2026, *The Astrophysical Journal*, **1000**, id. 162 (16 pp).
274. The Interplay of Stellar Evolution and Collisions in Galactic Nuclei. Sidhu, J.S., Rose, S.C., & Rasio, F.A. 2026, *The Astrophysical Journal*, **1002**, id. 150 (10 pp).
275. Machine Learning Methods for Stellar Collisions. I. Predicting Outcomes of SPH Simulations. González Prieto, E., Lombardi, J.C., Jr., Rose, S.C., Gibson, C.F.A., O’Connor, C.E., Starkenburg, T., Kiroğlu, F., Kremer, K., Sand, T.C., & Rasio, F.A. 2026, *The Astrophysical Journal*, **1005**, id. 131.
276. Intermediate-Mass Black Hole Formation from Hierarchical Mergers in Galactic Nuclei. Newton, A., Rose, S.C., Kiroğlu, F., Hoang, B.-M., & Rasio, F.A. 2026, *The Astrophysical Journal*, **1006**, id. 184.
277. A Common Origin for Binary Fractions in the Field and in Dense Clusters. O’Connor, C.E., Kremer, K., & Rasio, F.A. 2026, *The Astrophysical Journal*, **1009**, id. 80.
278. Survival Analysis of Intermediate-Mass Black Holes in Dense Star Clusters. Martinez, M.A.S., González Prieto, E., & Rasio, F.A. 2026, *The Astrophysical Journal*, accepted, arXiv:2602.23431 [astro-ph.HE].
279. An Analytical Approach to Binary Populations in Globular Clusters. O’Connor, C.E., Kremer, K., & Rasio, F.A. 2026, *The Astrophysical Journal*, submitted, arXiv:2604.02412 [astro-ph.GA].
280. Red vs. Blue: How Metallicity Shapes Black Hole Dynamics and Mergers in Dense Star Clusters. Agrawal, S., Kremer, K., Zevin, M., Plunkett, C., González Prieto, E., Kiroğlu, F., O’Connor, C.E., Rasio, F.A., & Ye, C. 2026, *The Astrophysical Journal*, submitted, arXiv:2606.23788 [astro-ph.GA].

281. Getting Tilted: Random Walk of Binary Black Hole Spin–Orbit Alignment in Dense Star Clusters. Martinez, M.A.S., O’Connor, C.E., Kiroğlu, F., & Rasio, F.A. 2026, *The Astrophysical Journal*, submitted, arXiv:2606.21691 [astro-ph.HE].
282. Black Hole Mergers from Dense Star Clusters with Realistic Binary Populations. O’Connor, C.E., Kremer, K., Agrawal, S., González Prieto, E., Kiroğlu, F., Martinez, M.A.S., Ye, C., & Rasio, F.A. 2026, *The Astrophysical Journal*, submitted, arXiv:2606.14846 [astro-ph.GA]
283. Using Machine Learning to Model Stellar Collisions in our Galactic Center. Sand, T.C., Rose, S.C., González Prieto, E., Lombardi, J.C., Jr., Gibson, C.F.A., Kiroğlu, F., Kremer, K., O’Connor, C.E., Ramirez-Ruiz, E., Rasio, F.A., & Starkenburg, T. 2026, submitted, arXiv:2609.25318 [astro-ph.SR].

Statistics (NASA ADS):

Total number of entries on ADS: 440
 Total number of refereed publications: 220
 Total citations: 25,882
 Average citations per refereed paper: 118
 h-index: 87
 m-index: 2.2
 g-index: 155
 i100-index: 80

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> (8 pp).

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> (8 pp).

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> (7 pp).

MeerTime – the MeerKAT Key Science Program on Pulsar Timing. Bailes, M., Barr, E., Bhat, N.D.R., Brink, J., Buchner, S., Burgay, M., Camilo, F., Champion, D.J., Hessels, J., Janssen, G.H., Jameson, A., Johnston, S., Karastergiou, A., Karuppusamy, R., Kaspi, V., Keith, M.J., Kramer, M., McLaughlin, M.A., Moodley, K., Osłowski, S., Possenti, A., Ransom, S.M., Rasio, F.A., Sievers, J., Serylak, M., Stappers, B.W., Stairs, I.H., Theureau, G., van Straten, W., Weltevrede, P., & Wex, N. 2018, *MeerKAT Science: On the Pathway to the SKA*, <https://pos.sissa.it/277/011/pdf> (12 pp).

Envisioning the Next Decade of Galactic Center Science: A Laboratory for the Study of the Physics and Astrophysics of Supermassive Black Holes. Do, T., Ghez, A., Becklin, E., Genzel, R., Psaltis, D., Perets, H., Armitage, P., Gammie, C., Quataert, E., Hosek, M., Gautam, A.K., Bentley, R.O., Morris, M.R., Lu, J., O’Neil, K.K., Chen, Z., Hees, A., Ciurlo, A., Rich, R.M., Kerzendorf, W., Dehghanfar, A., Naoz, S., Beaton, R.L., Bellini, A., Greene, J., Chakrabarti, S., Chu, D.S., Libralato, M., Witzel, G., Nishiyama, S., Rasio, F.A., Weinberg, N.N., Ramirez-Ruiz, E., Ozel, F., Hora, J., & Smith, H. 2019, *Astro2020: Decadal Survey on Astronomy and Astrophysics*, Science White Papers, no. 530, *BAAS*, **51**, id. 530 (9 pp).

Editorials

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

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

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

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