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Publications ____

FIRST AUTHOR (SORTED BY YEAR)

- 1. **O'Connor, B.**, Beniamini, P., and Gill, R., 2024. *X-ray Afterglow limits on the viewing angles of short gamma-ray bursts.* MNRAS, 533, 1629.
- 2. **O'Connor, B.**, Kouveliotou, C., Evans, P. A., Gorgone, N., van Kooten, A. J., et al., 2023. *The Swift Deep Galactic Plane Survey (DGPS) Phase-I Catalog*. ApJS, 269, 49. VizieR/J/ApJS/269/49
- 3. O'Connor, B., Brink, J., Buckley, D. A. H., Mukai, K., Kouveliotou, C., et al., 2023. *Discovery of 1RXS J165424.6-433758 as a polar cataclysmic variable*. ApJ, 957, 89.
- 4. O'Connor, B., Göğüş, E., Hare, J., Mukai, K., Huppenkothen, D., et al., 2023. Classification of Swift J170800-402551.8 as an intermediate polar. MNRAS, 525, 5015
- 5. O'Connor, B., Troja, E., Ryan, G., Beniamini, P., et al., 2023. A structured jet explains GRB 221009A. Science Advances, 9, eadi1405. 10.1126/sciadv.adi1405
- 6. **O'Connor, B.**, Troja, E., Dichiara, S., Beniamini, P., et al. 2022. *A deep survey of short GRB host galaxies over* $z\sim 0-2$: implications for offsets, redshifts, and environments. MNRAS, 485, 4890
- 7. **O'Connor, B.**, Göğüş, E., Huppenkothen, D., Kouveliotou, C., et al. 2021. *Identification of an X-Ray Pulsar in the BeXRB System IGR J18219—1347*. ApJ, 927, 139
- 8. **O'Connor, B.**, Troja, E., Dichiara, S., Chase, E. A., et al. 2021. A tale of two mergers: constraints on kilonova detection in two short GRBs at $z\sim0.5$. MNRAS, 502, 1279
- 9. **O'Connor, B.**, Beniamini, P., & Kouveliotou, C. 2020. *Constraints on the circumburst environments of short gamma-ray bursts*. MNRAS, 495, 4782

CO-AUTHOR (SORTED BY POSITION)

- 10. Srinivasaragavan, G., **O'Connor, B.**, Cenko, S. B., et al., 2023. *A Sensitive Search for Supernova Emission Associated with the Extremely Energetic and Nearby GRB 221009A*. ApJL, 949, L39.
- 11. Chase, E. A., **O'Connor, B.**, Fryer, C. L., Troja, E., et al., 2022. *Kilonova Detectability with Wide-field Instruments*. ApJ, 927, 163.
- 12. Troja, E., **O'Connor, B.**, Ryan, G., Piro, L., et al., 2022. Accurate flux calibration of GW170817: is the X-ray counterpart on the rise?. MNRAS, 510, 1902.
- 13. Bruni, G., **O'Connor, B.**, Matsumoto, T., Troja, E., et al., 2021. *Late-time radio observations of the short GRB 200522A: constraints on the magnetar model.* MNRAS, 505, L41.
- 14. Srinivasaragavan, G., Swain, V., **O'Connor, B.**, Anand, S., et al., 2023. *Characterization of SN 2023pel Associated with GRB 230812B: An Energetic GRB with an Ordinary Broad-lined Type Ic Supernova*. ApJL, 960, L18.
- 15. Yang, Y.-H., Troja, E., **O'Connor, B.**, Fryer, C. L., et al., 2023. *A lanthanide-rich kilonova in the aftermath of a long gamma-ray burst*. **Nature**, 626, 742.
- 16. Troja, E., Fryer, C. L., **O'Connor, B.** (corresponding author) Ryan, G., et al., 2022. A long gamma-ray burst from a stellar merger in the nearby Universe. **Nature**, 612, 228.
- 17. Dichiara, S., Troja, E., **O'Connor, B.**, Marshall, F. E., et al., 2020. *Short gamma-ray bursts within 200 Mpc*. MNRAS, 492, 5011.
- 18. Piro, L., Bruni, G., Troja, E., **O'Connor, B.**, et al., 2021. *The fast radio burst FRB 20201124A in a star-forming region: Constraints to the progenitor and multiwavelength counterparts*. A&A, 656, L15.
- 19. Dichiara, S., Troja, E., Beniamini, P., **O'Connor, B.**, et al., 2021. Evidence of Extended Emission in GRB 181123B and Other High-redshift Short GRBs. ApJL, 911, L28.

- 20. Becerra, R. L., Troja, E., Watson, A., **O'Connor, B.**, et al., 2023. *Deciphering the unusual stellar progenitor of GRB 210704A*. MNRAS, 522, 5204.
- 21. Ryan, G., van Eerten, H., Troja, E., Piro, L., **O'Connor, B.**, Ricci, R., 2023. *Modelling of Long-Term Afterglow Counterparts to Gravitational Wave Events: The Full View of GRB 170817A*. Submitted to ApJ. doi:10.48550/arXiv.2310.02328
- 22. Gillanders, J. H., Troja, E., Fryer, C. L., Ristic, M., O'Connor, B., et al., 2023, Heavy element nucleosynthesis associated with a gamma-ray burst. doi:10.48550/arXiv.2308.00633
- 23. Hammerstein, E., Cenko, S. B., Gezari, S., Veilleux, S., **O'Connor, B.**, et al., 2023. *Integral Field Spectroscopy of 13 Tidal Disruption Event Hosts from the ZTF Survey.* ApJ, 957, 86.
- 24. Ricci, R., Troja, E., Bruni, G., Matsumoto, T., Piro, L., **O'Connor, B.**, et al., 2021. Searching for the radio remnants of short-duration gamma-ray bursts. MNRAS, 500, 1708.
- 25. Enoto, T., Ng, M., Hu, C.-P., Güver, T., Jaisawal G. K., **O'Connor, B.**, et al., 2021. A Month of Monitoring the New Magnetar Swift J1555.2—5402 during an X-Ray Outburst. ApJL, 920, L4.
- 26. Troja, E., van Eerten, H., Zhang, B., Ryan, G., Piro, L., Ricci, R., **O'Connor, B.**, et al., 2020. *A thousand days after the merger: Continued X-ray emission from GW170817*. MNRAS, 498, 5643.
- 28. Y. Yao, M. Guolo, F. Tombesi, R. Li, S. Gezari, et al., 2024. Sub-relativistic Outflow and Hours-Timescale Large-amplitude X-ray Dips during Super-Eddington Accretion onto a Low-mass Massive Black Hole in the Tidal Disruption Event AT2022lri. Submitted to ApJ. doi:10.48550/arXiv.2405.11343
- 29. Das K., Fremling C., Kasliwal M., Schulze S., Sollerman J., Karambelkar V., et al., 2024. *SN 2023zaw: an ultra-stripped, nickel-poor supernova from a low-mass progenitor.* ApJ, 969, L11.
- 30. Bruni, G., Piro, L., Yang, Y.-P., Quai, S., Zhang B., et al., 2024. *A nebular origin for the persistent radio emission of fast radio bursts*. Nature. https://doi.org/10.1038/s41586-024-07782-6
- 31. Ghosh, R., Laha, S., Meyer, E., et al., 2023. A re-emerging bright soft-X-ray state of the changing-look Active Galactic Nucleus 1ES 1927+654: a multi-wavelength view. ApJ, 955, 3.
- 32. Dichiara S., Troja E., Lipunov V., Ricci R., et al., 2022. The early afterglow of GRB 190829A. MNRAS, 512, 2337.
- 33. Dichiara, S., Becerra, R. L., Chase, E. A., Troja, E., et al., 2021. *Constraints on the Electromagnetic Counterpart of the Neutron-star-Black-hole Merger GW200115*. ApJL, 923, L32.
- 34. Gorgone, N. M., Woudt, P. A., Buckley, D., Mukai, K., et al., 2021. Swift/XRT Deep Galactic Plane Survey Discovery of a New Intermediate Polar Cataclysmic Variable, Swift J183920.1—045350. ApJ, 923, 243.
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