

Publication list

This list has been updated to the date of the 26th of August. So, it is a lower limit estimate.

Total Number =238 including GCN, 97 refereed papers and a book, 46 are referred papers including the book as first author, 51 as a co-author with two as a shared first coauthor. Proceedings: 44; GCN:99. As a note, paper numbers 19, 25, 51 are in the top 1% most cited in the Web of Science, and number 50 is in the top 0.1% in the web of Science. H-index=39 and total citations=5039 according to NASA ADS ABS.

The citations follow the bibliography, where there is no citation indicated means 0 citation.

Referred Publication list as a lead author

1. Dainotti et al. 2024, “The largest GRB optical catalog with known redshift”, MNRAS, [tmp.1527D](#).
2. Dainotti et al. 2024, “GRBs as Distance Indicators by a Statistical Learning Approach”, ApJL, 967, 2, id. L30.
3. Dainotti et al. 2024, “A new binning method to choose a standard set of Quasars”, Physics of the Dark Universe, Vol. 44, article id. 101428. DOI: doi.org/10.1016/j.dark.2024.101428, <https://arxiv.org/abs/2401.12847>.
4. Dainotti et al. 2024, “The scavenger hunt for Quasar samples to be used as cosmological tools: similarities with Gamma-Ray Burst analysis of standard candles”, Galaxies, Vol. 12, issue 1, p. 4. DOI:<https://doi.org/10.3390/galaxies12010004>.
5. Dainotti et al. 2024, “On the statistical assumption on the distance moduli of Supernovae Ia and its impact on the determination of cosmological parameters”, Journal of High Energy Astrophysics, Vol. 41, p. 30-41, ISSN 2214-4048, <https://doi.org/10.1016/j.jheap.2024.01.001>.
6. Dainotti et al. 2024, “Inferring the redshift of more than 150 GRBs with a machine learning ensemble”, ApJS, 271, 22. DOI: 10.48550/arXiv.2401.03589.
7. Dainotti et al. 2024, “Reduced uncertainties up to 43% on the Hubble constant and the matter density with the SNe Ia with a new statistical analysis, JHEAP, Vol. 41, pp. 30-41, ISSN 2214-4048, <https://doi.org/10.1016/j.jheap.2024.01.001>.
8. Dainotti et al. 2023, “A Stochastic Approach to Reconstruct Gamma-Ray-burst Light Curves”, ApJS, 2023, Vol. 267, Issue 2, p 42. <https://iopscience.iop.org/article/10.3847/1538-4365/acdd07>, DOI: 10.3847/1538-4365/acdd07.
9. Dainotti et al. 2023, “Reducing the Uncertainty on the Hubble Constant up to 35% with an Improved Statistical Analysis: Different Best-fit Likelihoods for Type Ia

- Supernovae, Baryon Acoustic Oscillations, Quasars, and Gamma-Ray Bursts”, *ApJ*, 951, Vol. 1, Issue 1, id. 63, 24. DOI:10.3847/1538-4357/acd63f.
10. Dainotti et al. 2023, Quasars: Standard Candles up to $z = 7.5$ with the Precision of Supernovae Ia, *ApJ*, Volume 950, Issue 1, id. 45, 8, 10.3847/1538-4357/accea0.
 11. Dainotti et al. 2023, “The Closure Relations in High-Energy Gamma-Ray Bursts detected by Fermi-LAT”, *Galaxies* 2023, Vol. 11, 1, pp. 25. <https://doi.org/10.3390/galaxies11010025>.
 12. Dainotti et al. 2023, “The gamma-ray bursts fundamental plane correlation as a cosmological tool”, *MNRAS*, Vol. 518, 2, pp 2201-2240, <https://ui.adsabs.harvard.edu/abs/2023MNRAS.518.2201D/abstract>.
 13. Dainotti et al. 2022, “The Closure Relations in Optical Afterglow of Gamma-Ray Bursts”, *ApJ*, Vol. 940, Issue 2, Id. 169, pp. 14. <https://ui.adsabs.harvard.edu/abs/2022ApJ...940..169D/abstract>.
 14. Dainotti et al. 2022, “Gamma-ray bursts, Supernovae Ia, and baryon acoustic oscillations: A binned cosmological analysis”, *PASJ*, Vol. 74, Issue 5, pp. 1095-1113. <https://ui.adsabs.harvard.edu/abs/2022PASJ.74.1095D/abstract>.
 15. Dainotti et al. 2022, “The Quest for New Correlations in the Realm of the Gamma-Ray Burst-Supernova, Connection”, *ApJ*, Vol. 938, Issue 1, id. 41D, pp. 27. <https://ui.adsabs.harvard.edu/abs/2022ApJ...938.41D/abstract>.
 16. Dainotti et al., 2022, “Optical and X-ray GRB Fundamental Planes as cosmological distance indicators”, *MNRAS*, Vol. 514, Issue 2, pp. 1828-1856. <https://ui.adsabs.harvard.edu/abs/2022MNRAS.514.1828D/abstract>.
 17. Dainotti et al. 2022, “The Optical Two- and Three-dimensional Fundamental Plane Correlations for Nearly 180 Gamma-Ray Burst Afterglows with Swift/UVOT, RATIR, and the Subaru Telescope”, *ApJS*, Vol. 261, Issue 2, id 25, pp. 20. <https://ui.adsabs.harvard.edu/abs/2022ApJS..261.25D/abstract>.
 18. Dainotti et al. 2022, “Quasar Standardization: Overcoming Selection Biases and Redshift Evolution”, *ApJ*, Vol. 931, Issue 2, id. 106. <https://ui.adsabs.harvard.edu/abs/2022ApJ...931..106D/abstract>.
 19. Dainotti et al. 2022, “On the evolution of the Hubble constant with the SNe Ia Pantheon Sample and Baryon Acoustic Oscillations: A feasibility study for GRB-cosmology in 2030”, *Galaxies*, Vol. 10, issue 1, pp. 24. <https://www.mdpi.com/2075-4434/10/1/24>;
 20. Dainotti et al. 2021, “Accounting for Selection Bias and Redshift Evolution in GRB Radio Afterglow Data”, *Galaxies*; Vol. 9, issue 4, pp. 95. <https://ui.adsabs.harvard.edu/abs/2021Galax...9.95D/abstract>.
 21. Dainotti et al. 2021, “Predicting the Redshift of γ -Ray-loud AGNs Using Supervised Machine Learning”, *ApJ*, Vol. 920, Issue 2, id.118, pp. 20. <https://ui.adsabs.harvard.edu/abs/2021ApJ...920..118D/abstract>.

22. Dainotti et al. 2021, “Closure relations during the plateau emission of Swift GRBs and the fundamental plane”, PASJ, Vol. 73, Issue 4, pp. 970-1000.
<https://ui.adsabs.harvard.edu/abs/2021PASJ...73..970D/abstract>.
23. Dainotti et al. 2021, “On the Existence of the Plateau Emission in High-energy Gamma-Ray Burst Light Curves Observed by Fermi-LAT”, ApJS, Vol. 255, Issue 1, id. 13, pp. 14. DOI 10.3847/1538-4365/abfe17.
24. Dainotti et al. 2021, “Cosmological Evolution of the Formation Rate of Short Gamma-Ray Bursts with and without Extended Emission”, ApJL, Vol. 914, Issue 2, id.L40, pp. DOI: 10.3847/2041-8213/abf5e4.
25. Dainotti et al. 2021, “On the Hubble Constant Tension in the SNe Ia Pantheon Sample”, ApJ, Vol. 912, Issue 2, id.150, pp. 15. DOI 10.3847/1538-4357/abeb73.
26. Dainotti et al. 2020, “The Optical Luminosity-Time Correlation for More than 100 Gamma-Ray Burst Afterglows”. ApJL, Vol. 905, Issue 2, id. L26, pp. 8. DOI: 10.3847/2041-8213/abcda9.
27. Dainotti et al. 2020, The X-Ray “Fundamental Plane of the Platinum Sample, the Kilonovae, and the SNe Ib/c Associated with GRBs”, ApJ, Vol. 904, Issue 2, id.97, pp. 13. DOI: 10.3847/1538-4357/abbe8a.
28. Dainotti et al. 2018, “Gamma-ray Burst Prompt Correlations: Selection and Instrumental Effects. Publications of the Astronomical Society of the Pacific”, Vol. 130, Issue 987, pp. 051001. DOI: 10.1088/1538-3873/aaa8d7.
29. Dainotti et al. 2018, “Gamma-Ray Burst Prompt Correlations”. Advances in Astronomy, Vol. 2018, id.4969503.DOI: 10.1155/2018/4969503.
30. Dainotti et al. 2017, “A Study of the Gamma-Ray Burst Fundamental Plane”, ApJ, Vol. 848, Issue 2, id. 88, pp. 12. DOI: 10.3847/1538-4357/aa8a6b.
31. Dainotti et al. 2017, “Gamma Ray Burst afterglow and prompt-afterglow relations: An overview”, NewAR, Vol. 77, pp. 23-61. DOI: 10.1016/j.newar.2017.04.001.
32. Dainotti et al. 2017, “A study of gamma ray bursts with afterglow plateau phases associated with supernovae”, A&A, Vol. 600, id A98, pp. 11. DOI: 10.1051/0004-6361/201628384.
33. Dainotti et al. 2016, “A Fundamental Plane for Long Gamma-Ray Bursts with X-Ray Plateaus”, ApJL, Vol. 825, Issue 2, id. L20, pp. 6. DOI: 10.3847/2041-8205/825/2/L20.
34. Dainotti et al. 2015, “Luminosity-time and luminosity-luminosity correlations for GRB prompt and afterglow plateau emissions”, MNRAS, Vol. 451, Issue 4, pp.3898-3908. DOI: 10.1093/mnras/stv1229.
35. Dainotti et al. 2015, “Selection Effects in Gamma-Ray Burst Correlations: Consequences on the Ratio between Gamma-Ray Burst and Star Formation Rates”, ApJ, Vol. 800, Issue 1, id. 31, 12 pp. DOI: 10.1088/0004-637X/800/1/31.

36. Dainotti et al. 2013, “Slope evolution of GRB correlations and cosmology”, MNRAS, Vol. 436, Issue 1, pp.82-88. DOI: 10.1093/mnras/stt1516.
37. Dainotti et al. 2013, “Determination of the Intrinsic Luminosity Time Correlation in the X-Ray Afterglows of Gamma-Ray Bursts”, ApJ, Vol. 774, Issue 2, article id. 157, pp. 9. DOI: 10.1088/0004-637X/774/2/157.
38. Dainotti et al. 2012, “A cosmic ray cocoon along the X-ray jet of M87?”, MNRAS, Vol. 426, Issue 1, pp. 218-225. DOI: 10.1111/j.1365-2966.2012.21086.x.
39. Dainotti et al. 2012, “On the intrinsic nature of the updated luminosity time correlation in the X-ray afterglows of GRBs. Death of Massive Stars: Supernovae and Gamma-Ray Bursts, Proceedings of the International Astronomical Union”, IAU Symposium, Vol. 279, pp. 248-252. DOI: 10.1017/S1743921312013002
40. Dainotti et al. 2011, “Towards a standard gamma-ray burst: tight correlations between the prompt and the afterglow plateau phase emission”, MNRAS, Vol. 418, Issue 4, pp. 2202-2206. DOI: 10.1111/j.1365-2966.2011.19433.x.
41. Dainotti et al. 2011, “Study of Possible Systematics in the L^*X-T^* Correlation of Gamma-ray Bursts”, ApJ, Vol. 730, Issue 2, id. 135, pp. 10. DOI: 10.1088/0004-637X/730/2/135.
42. Dainotti et al. 2010, “Discovery of a Tight Correlation for Gamma-ray Burst Afterglows with Canonical Light Curves”, ApJL, Vol. 722, Issue 2, pp. L215-L219. DOI: 10.1088/2041-8205/722/2/L215.
43. Dainotti et al. 2010, “The astrophysical tryptic: GRB, SN and URCA can be extended to GRB060218?”, JKPS, Vol. 56, issue 51, pp. 1588. DOI: 10.3938/jkps.56.158837)
44. Dainotti et al. 2008, “A time-luminosity correlation for γ -ray bursts in the X-rays”, MNRAS: Letters, Vol. 391, Issue 1, pp. L79-L83 DOI: 10.1111/j.1745-3933.2008.00560.x.
45. Dainotti et al. 2007, “GRB 060218 and GRBs associated with supernovae Ib/c”, A&A, Vol. 471, Issue 2, pp. L29. DOI: 10.1051/0004-6361:20078068.
46. Dainotti, M.; 2019, “Gamma-ray Burst Correlations; Current status and open questions. Gamma-ray Burst Correlations; Current status and open questions, by Dainotti, Maria”. ISBN: 978-0-7503-1573-9. IOP ebooks. Bristol, UK: IOP Publishing, 2019. DOI: 10.1088/2053-2563/aae15c.

Refereed Publications list as a co-author

1. The Density and Ionization Profile of Optically Dark and High Redshift GRBs probed by X-ray Absorption, Eka Puspita Arumaningtyas, Hasan Al Rasyid, Maria Giovanna Dainotti, Daisuke Yonetoku, accepted in Galaxies.
2. Revisiting the Concordance Λ CDM model using Gamma-Ray Bursts together with Supernovae Ia and Planck data, Adil, S. Dainotti, M. & Sen, Anjan, 2024, JCAP, accepted, [\[2405.01452\] Revisiting the Concordance \$\Lambda\$ CDM model using Gamma-](#)

[Ray Bursts together with Supernovae Ia and Planck data \(arxiv.org\)](#).

3. Colgáin, E. Ó.; et al. 2022, “Putting Flat Λ CDM In The (Redshift) Bin”, eprint arXiv:2206.11447. DOI 10.48550/arXiv.2206.11447, Physics of the Dark Universe, 44, id.101464.
4. Montani, Carlevaro, Dainotti, “Slow-rolling scalar dynamics and as solution for the Hubble tension”, Physics of the Dark Universe, 44, id.101486.
5. Petrosian & Dainotti, “Progenitors of Low-redshift Gamma-Ray Bursts”, ApJL, Vol. 963, 12.
6. Rinaldi, Fraija, Dainotti, “Parameter inference of a state-of-the-art physical afterglow model for GRB 190114C.”, Galaxies, 12, 1, 5.
7. Angulo et al. 2023, including Dainotti, “Machine-Learning Enhanced Photometric Analysis of the Extremely Bright GRB 210822A”, MNRAS, 527, Issue 3, pp.8140-8150.
8. Fraija, N, Dainotti et al. 2023, “Microphysical parameter variation in gamma-ray burst stratified afterglows and closure relations: from sub-GeV to TeV observations”, MNRAS, Vol. 527, Issue 2, pp.1884-1909. DOI: 10.1093/mnras/stad3272.
9. Fraija, N. et al. 2023, including Dainotti: “An explanation of GRB Fermi-LAT flares and high-energy photons in stratified afterglows”, MNRAS, Vol 527, Issue 2, pp.1674-1704.
10. Bhardwaj, Dainotti et al. 2023, “GRB optical and X-ray plateau properties classifier using unsupervised machine learning”, MNRAS, Volume 525, Issue 4, pp.5204-5223. DOI: 10.1093/mnras/stad2593.
11. Fraija, et al. 2023, including Dainotti, “The unprecedented flaring activities around Mrk 421 in 2012 and 2013: The test for neutrino and UHECR event connection”, JHEA, Vol. 40, p 55. DOI:10.1016/j.jheap.2023.10.003.
12. Bargiacchi, Dainotti, & Capozziello 2023, “Tensions with the flat Λ CDM model from high-redshift cosmography”, MNRAS, Vol. 525, Issue 2, pp.3104-3116. DOI:10.1093/mnras/stad2326.
13. Cooper, N., Dainotti, M. et al. 2023, “Fermi LAT AGN classification using supervised machine learning”, MNRAS, 525, 1731C, DOI: 10.1093/mnras/stad2193.
14. Bargiacchi, Dainotti et al. 2023, “Gamma-Ray Bursts, Quasars, Baryonic Acoustic Oscillations, and Supernovae Ia: new statistical insights and cosmological constraints”, MNRAS, Vol. 521, Issue 3, pp.3909-3924. DOI:0.1093/mnras/stad7631.
15. Fraija, N., Dainotti et al. 2023, “Off-axis Afterglow Closure Relations and Fermi-LAT Detected Gamma-Ray Bursts”, ApJ, Vol. 958, Issue 2, id126.
16. Chakraborty, A.; Dainotti, M.; et al, 2023, “Radio-bright vs. Radio-dark Gamma-ray Bursts - More Evidence for Distinct Progenitors”, MNRAS, 520, 4, 5764-5782. arXiv:2210.12972.
17. Levine, D.; Dainotti M.; Fraija, N. et al. 2023, “Interpretation of radio afterglows in the

framework of the standard fireball and energy injection models”, MNRAS, Vol. 519, Issue 3, pp. 4670. <https://ui.adsabs.harvard.edu/abs/2023MNRAS.519.4670L/abstract>.

18. Do, E. Pedreira et al. 2023, “Afterglow Polarization from Off-axis Gamma-Ray Burst Jets”, ApJ, Vol. 942, Issue 2, id.81, pp. 12. DOI: 10.3847/1538-4357/aca019.
19. Fraija et al. 2022, “Modeling Gamma-Ray Burst Afterglow Observations with an Off-axis Jet Emission”, ApJ, Vol. 940, Issue 2, id. 189, pp. 26. DOI: 10.3847/1538-4357/ac68e1.
20. Łukasz L, Bargiacchi, G; Dainotti, M; et al. 2022; “A bias-free cosmological analysis with quasars alleviating H0 tension”, ApJS, Vol. 264, Issue 2, id. 46, pp. 20. eprint arXiv:2211.10785. DOI 10.48550/arXiv.2211.10785.
21. Cao, S.; Dainotti, M.; Ratra, B.; 2022, “Gamma-ray burst data strongly favour the three-parameter fundamental plane (Dainotti) correlation over the two-parameter one”, MNRAS, Vol. 516, Issue 1, pp.1386-1405. <https://ui.adsabs.harvard.edu/abs/2022MNRAS.516.1386C/abstract>;
22. Dereli-Begue, H.; et al. 2022, “A wind environment and Lorentz factors of tens explain gamma-ray bursts X-ray plateau”, Nature Communications, Vol. 13, id. 5611. <https://ui.adsabs.harvard.edu/abs/2022NatCo..13.5611D>.
23. Ó Colgáin, E.; et al. 2022, “Revealing intrinsic flat Λ CDM biases with standardizable candles”, Phys. Rev. D, Vol. 106, Issue 4, id L041301. <https://ui.adsabs.harvard.edu/abs/2022PhRvD.106d1301O>.
24. Fraija, N.; Dainotti, M.; et al., 2022, “Synchrotron Self-Compton Afterglow Closure Relations and Fermi-LAT-detected Gamma-Ray Bursts”, ApJ, Vol. 934, Issue. 2, Id. 188, pp. 11. <https://ui.adsabs.harvard.edu/abs/2022ApJ...934..188F>.
25. Fraija, N.; et al. 2022, “GRB Afterglow of the Sub-relativistic Materials with Energy Injection”, ApJ, Vol. 933, Issue 2, id 243, pp. 25. DOI: 10.3847/1538-4357/ac714d.
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27. Abdalla, E.; et al. 2022, “Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies”, JHEAp, Vol. 34, pp. 49-211. DOI: 10.1016/j.jheap.2022.04.002.
28. Cao, S.; Dainotti, M.; Ratra, B.; 2022, “Standardizing Platinum Dainotti-correlated gamma-ray bursts, and using them with standardized Amati-correlated gamma-ray bursts to constrain cosmological model parameters”, MNRAS, Vol. 512, Issue 1, pp. 439-454. DOI: 10.1093/mnras/stac517.
29. Gibson, S.J.; Narendra, A.; Dainotti, M.; et al. 2022, “Using Multivariate Imputation by Chained Equations to Predict Redshifts of Active Galactic Nuclei. Frontiers in Astronomy and Space Sciences”, Vol. 9, id. 836215. DOI: 10.3389/fspas.2022.836215.
30. Levine, D; Dainotti, M.; Zvonarek, K. J.; et al.; 2022, “Examining Two-dimensional

- Luminosity-Time Correlations for Gamma-Ray Burst Radio Afterglows with VLA and ALMA”, *ApJ*, Vol. 925, Issue 1, id.15, pp. 10. DOI: 10.3847/1538-4357/ac4221.
31. Warren, Donald C.; Dainotti, M.; et al. 2022, “A Semianalytic Afterglow with Thermal Electrons and Synchrotron Self-Compton Emission”, *ApJ*, Vol. 924, Issue 1, id.40, pp. 16. DOI:10.3847/1538-4357/ac2f43.
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 33. Fraija, N.; Kamenetskaia, B.B; Dainotti, M.; et al. 2022, “Afterglow Light Curves of Non-relativistic Ejecta Mass in a Stratified Circumstellar Medium”, *ApJ*, Vol. 907, Issue 2, id.78, pp. 24. DOI: 10.3847/1538-4357/abcaf6.
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42. Mao, J.; et al.; 2015, “Matter Mixing in Core-collapse Supernova Ejecta: Large Density Perturbations in the Progenitor Star?”, *ApJ*, Vol. 808, Issue 2, id. 164. pp. 26 DOI: 10.1088/0004-637X/808/2/164. **Citations:15.**
43. Rowlinson, A.; Gompertz, B. P.; Dainotti, M.; et al.; 2014, “Constraining properties of GRB magnetar central engines using the observed plateau luminosity and duration correlation”, *MNRAS*, Vol. 443, Issue 2, pp. 1779–1787. DOI: 10.1093/mnras/stu1277. **Citations:104**
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48. Caito, L., et al.; 2009, “GRB060614: a “fake” short GRB from a merging binary system”, *A&A*, Vol. 498, Id. 2, pp. 501-507. DOI: <https://doi.org/10.1051/0004-6361/200810676>. **Citations:50.**
49. Guida, R., et al.; 2008, “The Amati relation in the fireshell model”, *A&A*, Vol. 487, Issue 2, pp. L37-L40. DOI: 10.1051/0004-6361:200810338. **Citations:16.**
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Submitted or about to be submitted to referred journals

52. Neutrino Cosmology after DESI: tightest mass upper limits, preference for the normal ordering, and tension with terrestrial observations: Jiang et al. including Dainotti: **Citations:2. [10.48550/arXiv.2407.18047](#)**
53. Pedreira et al. 2023, “Exploring the Early Afterglow Polarization of GRB 190829A”; eprint [arXiv:2210.12904](#). DOI 10.48550/arXiv.2210.12904, submitted to *MNRAS*. **Citations:2.**

54. Dainotti et al. 2023, “The closure relationships in multi-wavelengths”, submitted to ApJ
55. Favale, Dainotti et al. 2023, “The GRB calibration with cosmic chronometers”, submitted in A&A, <https://doi.org/10.48550/arXiv.2402.13115>. **Citations:5.**
56. Eka, Dainotti and Yonetoku, submitted to PASJ.
57. Eoin et al. “Does DESI 2024 Confirm Λ CDM?”, submitted to PRL, **Citations:37.**
58. Bargiacchi, Dainotti & Capozziello, submitted to the New Astronomy Reviews.
59. Di Valentino et al. 2024, Tensions in Cosmology, about to be submitted to Physics of the Dark Universe
60. Narendra, Dainotti et al. “The machine learning analysis and the associated web-app”, about to be submitted to A&A
61. Dainotti et al. “The redshift classifier”, about to be submitted in ApJ

Proceedings and arxiv

- 1) Manieri, V. including Dainotti, “The Wide-field Spectroscopic Telescope (WST) Science White Paper”, **Citations:10.**
- 2) Dainotti & De Simone 2023, The two-dimensional and three-dimensional relations in the plateau emission in multi-wavelengths, submitted to the IOP, Frascati Workshop 2023.
- 2.) Dainotti et al. 2023, “Shedding new light on the Hubble constant tension through Supernovae Ia”, the IOP, Frascati Workshop 2023. **Citations:1.**
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