

# **A GAMMA-RAY BURST BIBLIOGRAPHY, 1972 – 2021**

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## Abstract

On the average, one new publication on cosmic gamma-ray bursts enters the literature every day. The total number now exceeds 13000. I present here a complete bibliography which can be made available electronically to interested parties.

## Introduction

I have been tracking the gamma-ray burst literature for about the past nineteen years, keeping the authors, titles, references, and key subject words in a machine-readable form. The present version updates previous ones which were compiled in 1994, 1996, 1998, and 2003 (Hurley 1994,1996, 1998, 2003). In its current form, this information is in a Microsoft Word 2002 “doc” format. My purpose in doing this was first, to be able to retrieve rapidly any articles on a given topic, and second, to be able to cut and paste references into manuscripts in preparation. The following journals have been scanned on a more or less regular basis starting with the 1973 issues:

Advances in Physics  
Annals of Physics  
Astronomical Journal  
Astronomische Nachrichten  
Astronomy and Astrophysics (letters, main journal, and supplement series)  
Astronomy and Astrophysics Review  
Astronomy Letters (formerly Soviet Astronomy Letters)  
Astronomy Reports(formerly Soviet Astronomy)  
Astroparticle Physics  
Astrophysical Journal (letters, main journal, and supplements)  
Astrophysical Letters and Communications  
Astrophysics and Space Science  
Chinese Journal of Astronomy and Astrophysics  
Chinese Astronomy and Astrophysics  
ESA Bulletin  
ESA Journal  
IEEE Transactions on Nuclear Science  
Journal of Astrophysics and Astronomy  
Monthly Notices of the Royal Astronomical Society  
Nature  
New Astronomy  
Nuclear Instruments and Methods in Physics Research Section A  
Observatory  
Physical Review (main journal A and letters)

Proceedings of the Astronomical Society of Australia  
Publications of the Astronomical Society of Japan  
Publications of the Astronomical Society of the Pacific  
Reports on Progress in Physics  
Science  
Scientific American  
Sky & Telescope

In addition, the following journals have been scanned, but in many cases less regularly, particularly in the past:

Annals of Geophysics  
Astrofizika  
Bulletin of the American Astronomical Society  
Bulletin of the American Physical Society  
Chinese Astronomy  
Classical and Quantum Gravity  
Cosmic Research  
Journal of Atmospheric and Terrestrial Physics  
Journal of the British Interplanetary Society  
Journal of the Royal Astronomical Society of Canada  
Progress in Theoretical Physics  
Solar Physics  
Soviet Physics

The above lists are not exhaustive. For example, where theses, newspaper articles, or internal reports have come to my attention, I have included them, too. To be included, an article had to have something to do with gamma-ray burst theory, observation, or instrumentation, or be closely related to one of these topics (e.g., merging neutron stars), and must have been published in some form. With only a few exceptions, preprints which were never published have not been included. Up to around 2013 I have also included conference proceedings papers; from around 2014, however, these are incomplete, and this partly explains the drop in the yearly rate.

## Organization of the Bibliography

The overall organization is chronological by year. Within a given year, articles published in journals are listed first, in alphabetical order by first author. Then come theses and conference proceedings articles. The latter are listed in the order in which they appear in the proceedings.

The entries are numbered consecutively, so that paper copies which are kept on file can be retrieved quickly. However, to avoid having to renumber this entire file when a new article is added, numbers are skipped at the end of each year and reserved for later inclusion. The complete author list follows, as it appears in the journal, along with the title, journal, volume number, page number, and year. A line containing key words follows this. These are generally not the same key words as the ones listed in the journal, nor are they taken from the title or any particular list. Rather, they are meant to

reflect the true content of the article, and provide a list of machine-searchable topics. In general, however, key words have not been included for conference proceedings articles.

### A Few Interesting Statistics

The number of articles published each year since 1973 is shown in figure 1. Starting with a modest article per month in 1973, it started to exceed one per day in 1994. In keeping with this publication rate, the bibliography is updated on an approximately daily basis. Note that there are still about as many papers published as there are gamma-ray bursts. The cumulative total is shown in figure 2.

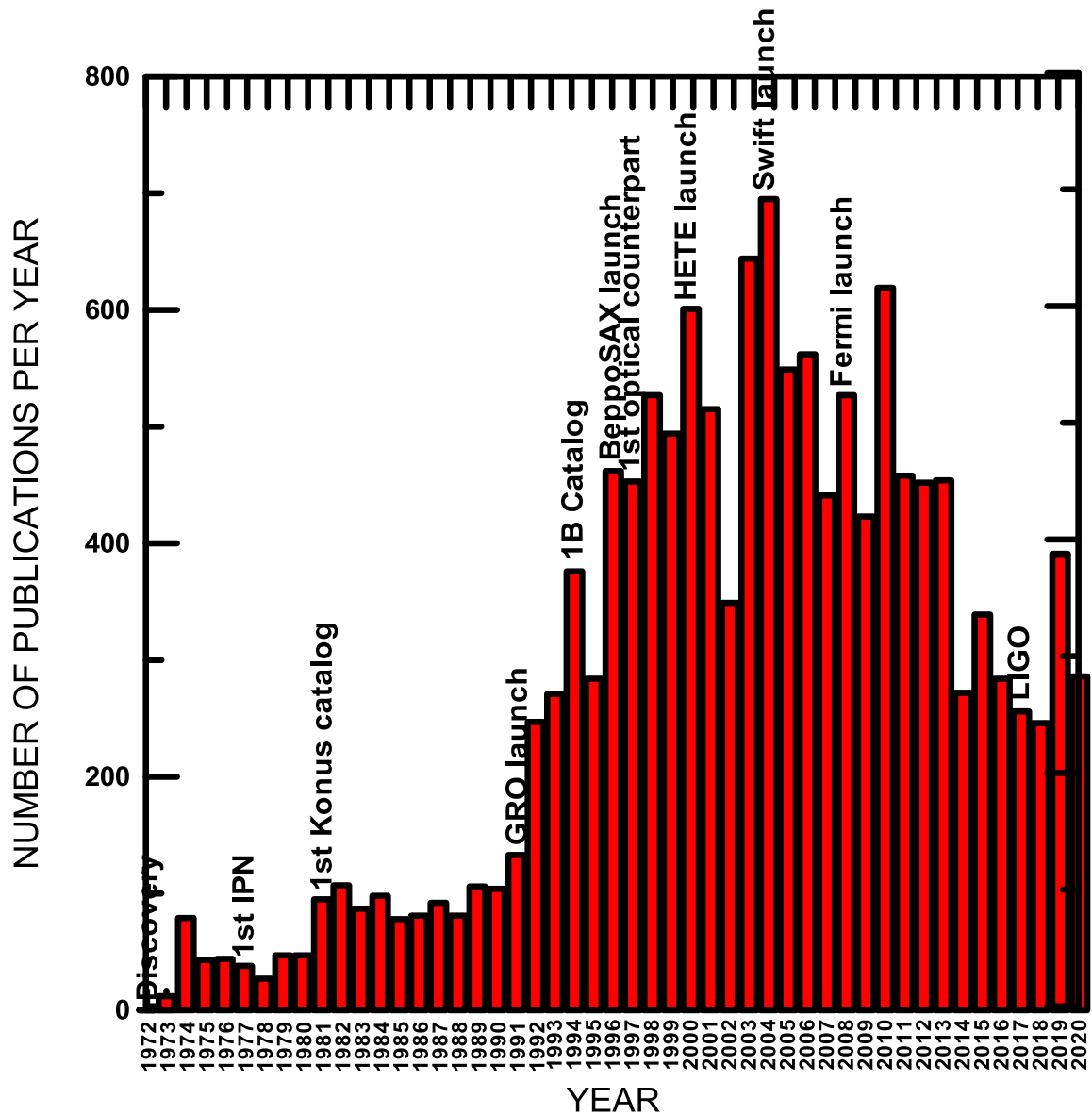


Figure 1. Number of gamma-ray burst publications as a function of year through 2020. Some milestones are indicated which reflect the sudden increases in the publication rate.

Other fluctuations may be due to large influxes of conference proceedings papers, or to the lack of them starting around 2014.

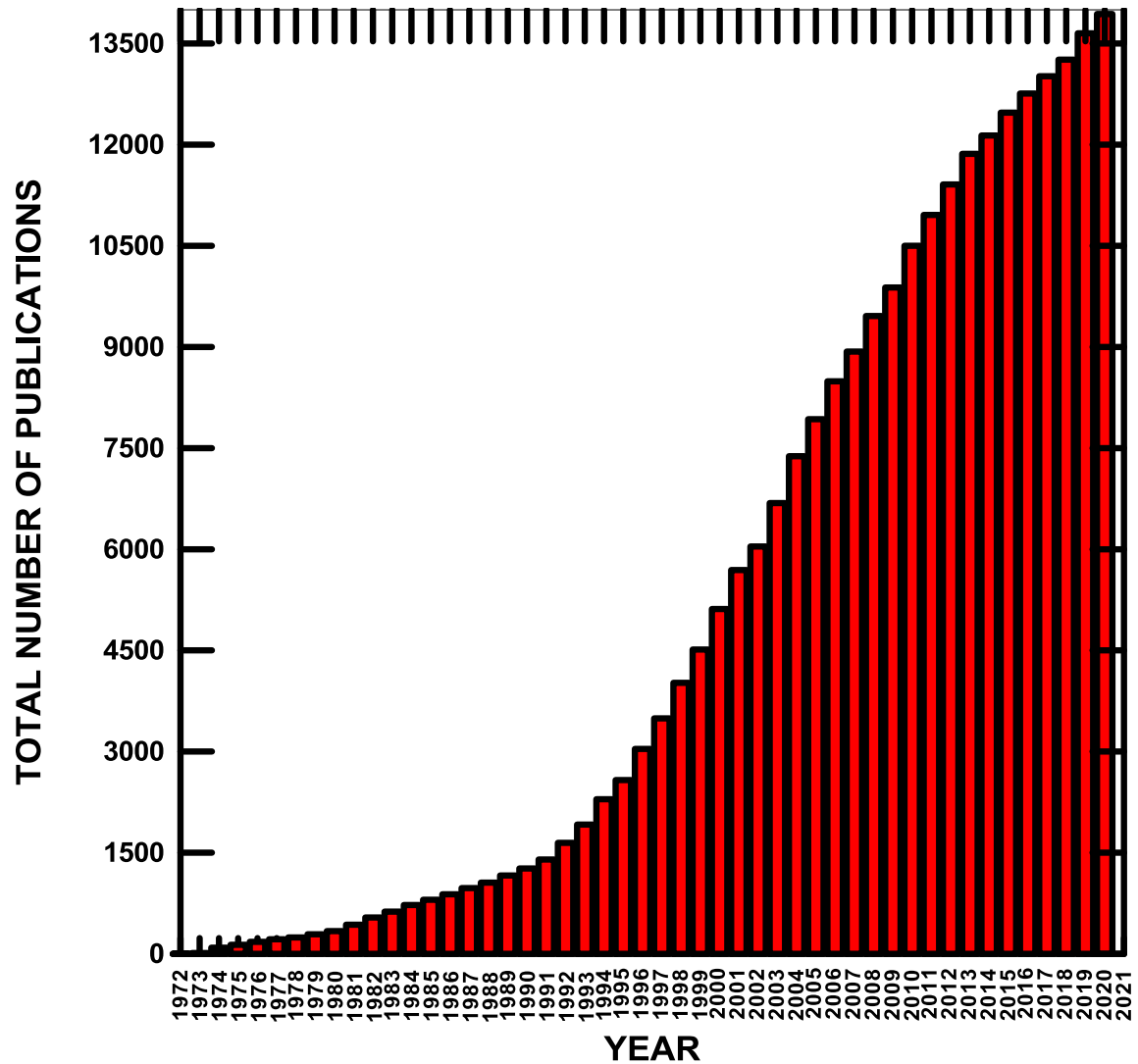


Figure 2. The cumulative number of publications by year.

The sheer volume of the literature has necessitated the development of a program which can search for and extract particular articles. I have written such a program in Microsoft Word Basic (a variant of the BASIC programming language). It allows one to extract all articles between two dates whose entries contain a particular key phrase and write it to a separate file.

### Availability

Electronic versions of the bibliography can be made available to interested parties as time permits. There are various possible formats, such as plain ASCII, "doc", and "rich text format" (rtf). Please contact me at

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to request copies, and indicate your preference for the format. I would appreciate it if users would communicate errors and omissions to me.

## Acknowledgments

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Key Words: gamma rays, IMP-6, diffuse background, lines

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9490. R. Abbasi, Y. Abdou, M. Ackermann, J. Adams, J. Aguilar, M. Ahlers, K. Andeen, J. Auffenberg, X. Bai, M. Baker, S. W. Barwick, R. Bay, J. L. Bazo Alba, K. Beattie, J. J. Beatty, S. Bechet, J. K. Becker, K.-H. Becker, M. L. Benabderrahmane, J. Berdermann, P. Berghaus, D. Berley, E. Bernardini, D. Bertrand, D. Z. Besson, M. Bissok, E. Blaufuss, D. J. Boersma, C. Boehm, J. Bolmont, S. Böser, O. Botner, L. Bradley, J. Braun, D. Breder, T. Castermans, D. Chirkin, B. Christy, J. Clem, S. Cohen, D. F. Cowen, M. V. D'Agostino, M. Danninger, C. T. Day, C. De Clercq, L. Demirörs, O. Depaepe, F. Descamps, P. Desiati, G. de Vries-Uiterweerd, T. DeYoung, J. C. Diaz-Velez, J. Dreyer, J. P. Dumm, M. R. Duvoort, W. R. Edwards, R. Ehrlich, J. Eisch, R. W. Ellsworth, O. Engdegård, S. Euler, P. A. Evenson, O. Fadiran, A. R. Fazely, T. Feusels, K. Filimonov, C. Finley, M. M. Foerster, B. D. Fox, A. Franckowiak, R. Franke, T. K. Gaisser, J. Gallagher, R. Ganugapati, L. Gerhardt, L. Gladstone, A. Goldschmidt, J. A. Goodman, R. Gozzini, D. Grant, T. Griesel, A. Groß, S. Grullon, R. M. Gunasingha, M. Gurtner, C. Ha, A. Hallgren, F. Halzen, K. Han, K. Hanson, Y. Hasegawa, J. Heise, K. Helbing, P. Herquet, S. Hickford, G. C. Hill, K. D. Hoffman, K. Hoshina, D. Hubert, W. Huelsnitz, J.-P. Hülß, P. O. Hulth, K. Hultqvist, S. Hussain, R. L. Imlay, M. Inaba, A. Ishihara, J. Jacobsen, G. S. Japaridze, H. Johansson, J. M. Joseph, K.-H. Kampert, A. Kappes, T. Karg, A. Karle, J. L. Kelley, P. Kenny, J. Kiryluk, F. Kislak, S. R. Klein, S. Klepser, S. Knops, G. Kohnen, H. Kolanoski, L. Köpke, M. Kowalski, T. Kowarik, M. Krasberg, K. Kuehn, T. Kuwabara, M. Labare, S. Lafebre, K. Laihem, H. Landsman, R. Lauer, H. Leich, D. Lennarz, A. Lucke, J. Lundberg, J. Lünemann, J. Madsen, P. Majumdar, R. Maruyama, K. Mase, H. S. Matis, C. P. McParland, K. Meagher, M. Merck, P. Mészáros, E. Middell, N. Milke, H. Miyamoto, A. Mohr, T. Montaruli, R. Morse, S. M. Movit, K. München, R. Nahnauer, J. W. Nam, P. Nießen, D. R. Nygren, S. Odrowski, A. Olivas, M. Olivo, M. Ono, S. Panknin, S. Patton, C. Pérez de los Heros, J. Petrovic, A. Piegsa, D. Pieloth, A. C. Pohl, R. Porrata, N. Potthoff, P. B. Price, M. Prikockis, G. T. Przybylski, K. Rawlins, P. Redl, E. Resconi, W. Rhode, M. Ribordy, A. Rizzo, J. P. Rodrigues, P. Roth, F. Rothmaier, C. Rott, C. Roucelle, D. Rutledge, D. Ryckbosch, H.-G. Sander, S. Sarkar, K. Satalecka, S. Schlenstedt, T. Schmidt, D. Schneider, A. Schukraft, O. Schulz, M. Schunck, D. Seckel, B. Semburg, S. H. Seo, Y. Sestayo, S. Seunarine, A. Silvestri, A. Slipak, G. M. Spiczak, C. Spiering, M. Stamatikos, T. Stanev, G. Stephens, T. Stezelberger, R. G. Stokstad, M. C. Stoufer, S. Stoyanov, E. A. Strahler, T. Straszheim, K.-H. Sulanke, G. W. Sullivan, Q. Swillens, I. Taboada, O. Tarasova, A. Tepe, S. Ter-Antonyan, C. Terranova, S. Tilav, M. Tluczykont, P. A. Toale, D. Tosi, D. Turčan, N. van Eijndhoven, J. Vandenbroucke, A. Van Overloop, B. Voigt, C. Walck, T. Waldenmaier, M. Walter, C. Wendt, S. Westerhoff, N. Whitehorn, C. H. Wiebusch, A. Wiedemann, G. Wikström, D. R. Williams, R. Wischnewski, H. Wissing, K. Woschnagg, X. W. Xu, G. Yodh (IceCube)

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**Key Words:** GCN bursts, IPN, Swift, INTEGRAL, AGILE, TeV neutrinos, PeV neutrinos

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Key Words: Fermi LAT, delayed emission, long duration central engine activity

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Key Words: 260 GeV, 320 s delay, 16 bursts

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Key Words: 1.4 GeV cutoff, Lorentz factor

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Key Words: AGN, GRB, SGR 0501+4516

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Key Words: ROTSE, neutrinos, Lorentz factor 10

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Key Words: Waxman-Bahcall limit, VHE cosmic rays, IPN bursts

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Key Words: high altitude water Cherenkov observatory

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Key Words: 28 GRBs, spectra, power law component, duration

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Key Words: sub-threshold emission, afterglow brightness correlation

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PHYSICAL REVIEW LETTERS week ending OCTOBER - L. Trozzo,, K. W.

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Key Words: LIGO, Virgo, IPN

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Key Words: IPN, Fermi GBM

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Key Words: GRB 180720B, H.E.S.S.

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Key Words: jet photosphere, XRT-GBM spectra, bulk Lorentz factor, internal shocks

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Key Words: IPN, delays, 2008-2018, 186 bursts, long durations

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Key Words: LAT, >100 MeV flares, curvature effect

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