

# Valerie Connaughton

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

4,193  
citations

186265

28  
h-index

302126

39  
g-index

41  
all docs

41  
docs citations

41  
times ranked

4170  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | THE <i>FERMI</i> GAMMA-RAY BURST MONITOR. <i>Astrophysical Journal</i> , 2009, 702, 791-804.  | 4.5 | 1,063     |
| 2  | The Fourth BATSE Gamma-Ray Burst Catalog (Revised). <i>Astrophysical Journal, Supplement Series</i> , 1999, 122, 465-495.   | 7.7 | 410       |
| 3  | THE <i>FERMI</i> GBM GAMMA-RAY BURST SPECTRAL CATALOG: FOUR YEARS OF DATA. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 12.                               | 7.7 | 279       |
| 4  | DETECTION OF A THERMAL SPECTRAL COMPONENT IN THE PROMPT EMISSION OF GRB 100724B. <i>Astrophysical Journal Letters</i> , 2011, 727, L33.                                   | 8.3 | 205       |
| 5  | THE THIRD FERMI GBM GAMMA-RAY BURST CATALOG: THE FIRST SIX YEARS. <i>Astrophysical Journal, Supplement Series</i> , 2016, 223, 28.  | 7.7 | 191       |
| 6  | THE SECOND <i>FERMI</i> GBM GAMMA-RAY BURST CATALOG: THE FIRST FOUR YEARS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 211, 13.                               | 7.7 | 172       |
| 7  | THE <i>FERMI</i> GBM GAMMA-RAY BURST SPECTRAL CATALOG: THE FIRST TWO YEARS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 19.                              | 7.7 | 162       |
| 8  | Electron-positron beams from terrestrial lightning observed with Fermi GBM. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.                                      | 4.0 | 123       |
| 9  | WHEN A STANDARD CANDLE FLICKERS. <i>Astrophysical Journal Letters</i> , 2011, 727, L40.   | 8.3 | 117       |
| 10 | Terrestrial gamma-ray flashes in the Fermi era: Improved observations and analysis methods. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3805-3830. | 2.4 | 109       |
| 11 | THE <i>FERMI</i> GBM GAMMA-RAY BURST CATALOG: THE FIRST TWO YEARS. <i>Astrophysical Journal, Supplement Series</i> , 2012, 199, 18.                                       | 7.7 | 100       |
| 12 | The lightning-TGF relationship on microsecond timescales. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.  | 4.0 | 96        |
| 13 | HOW LONG DOES A BURST BURST?. <i>Astrophysical Journal</i> , 2014, 787, 66.   | 4.5 | 93        |
| 14 | BATSE Observations of Gamma-Ray Burst Tails. <i>Astrophysical Journal</i> , 2002, 567, 1028-1036.   | 4.5 | 90        |
| 15 | The source altitude, electric current, and intrinsic brightness of terrestrial gamma ray flashes. <i>Geophysical Research Letters</i> , 2014, 41, 8586-8593.              | 4.0 | 87        |
| 16 | SYNCHROTRON ORIGIN OF THE TYPICAL GRB BAND FUNCTION—A CASE STUDY OF GRB 130606B. <i>Astrophysical Journal</i> , 2016, 816, 72.  | 4.5 | 86        |
| 17 | Radio signals from electron beams in terrestrial gamma ray flashes. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2313-2320.                         | 2.4 | 80        |
| 18 | The <i>Fermi</i> GBM gamma-ray burst time-resolved spectral catalog: brightest bursts in the first four years. <i>Astronomy and Astrophysics</i> , 2016, 588, A135.       | 5.1 | 80        |

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|----|--|-----|-----------|
| 19 | Initial breakdown pulses in intracloud lightning flashes and their relation to terrestrial gamma ray flashes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 10,907.   | 3.3 | 61        |
| 20 | Gamma-ray burst science in the era of the Cherenkov Telescope Array. <i>Astroparticle Physics</i> , 2013, 43, 252-275.   | 4.3 | 58        |
| 21 | ESTIMATING LONG GRB JET OPENING ANGLES AND REST-FRAME ENERGETICS. <i>Astrophysical Journal</i> , 2016, 818, 18.  | 4.5 | 57        |
| 22 | CONSTRAINTS ON THE SYNCHROTRON SHOCK MODEL FOR THE <i>FERMI</i> GRB 090820A OBSERVED BY GAMMA-RAY BURST MONITOR. <i>Astrophysical Journal</i> , 2011, 741, 24.   | 4.5 | 43        |
| 23 | THE NEEDLE IN THE 100 deg <sup>2</sup> HAYSTACK: UNCOVERING AFTERGLOWS OF <i>FERMI</i> GRBs WITH THE PALOMAR TRANSIENT FACTORY. <i>Astrophysical Journal</i> , 2015, 806, 52.  | 4.5 | 43        |
| 24 | Characteristics of Thunderstorms That Produce Terrestrial Gamma Ray Flashes. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 639-653.   | 3.3 | 36        |
| 25 | The Structure and Evolution of LOCBURST: The BATSE Burst Location Algorithm. <i>Astrophysical Journal</i> , 1999, 512, 362-376.  | 4.5 | 35        |
| 26 | TEMPORAL DECONVOLUTION STUDY OF LONG AND SHORT GAMMA-RAY BURST LIGHT CURVES. <i>Astrophysical Journal</i> , 2012, 744, 141.  | 4.5 | 35        |
| 27 | The Error Distribution of BATSE Gamma-Ray Burst Locations. <i>Astrophysical Journal, Supplement Series</i> , 1999, 122, 503-518.   | 7.7 | 31        |
| 28 | A Search for High-energy Counterparts to Fast Radio Bursts. <i>Astrophysical Journal</i> , 2019, 879, 40.  | 4.5 | 30        |
| 29 | THREE YEARS OF <i>FERMI</i> GBM EARTH OCCULTATION MONITORING: OBSERVATIONS OF HARD X-RAY/SOFT GAMMA-RAY SOURCES. <i>Astrophysical Journal, Supplement Series</i> , 2012, 201, 33.  | 7.7 | 28        |
| 30 | AN OBSERVED CORRELATION BETWEEN THERMAL AND NON-THERMAL EMISSION IN GAMMA-RAY BURSTS. <i>Astrophysical Journal Letters</i> , 2014, 784, L43.   | 8.3 | 27        |
| 31 | Synchrotron cooling in energetic gamma-ray bursts observed by the <i>Fermi</i> Gamma-Ray Burst Monitor. <i>Astronomy and Astrophysics</i> , 2015, 573, A81.  | 5.1 | 26        |
| 32 | DO THE FERMI GAMMA-RAY BURST MONITOR AND SWIFT BURST ALERT TELESCOPE SEE THE SAME SHORT GAMMA-RAY BURSTS?. <i>Astrophysical Journal</i> , 2016, 818, 110.  | 4.5 | 26        |
| 33 | FIRST-YEAR RESULTS OF BROADBAND SPECTROSCOPY OF THE BRIGHTEST <i>FERMI</i> -GBM GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2011, 733, 97.  | 4.5 | 25        |
| 34 | Analytical modeling of pulse-pileup distortion using the true pulse shape; applications to Fermi-GBM. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 717, 21-36. | 1.6 | 20        |
| 35 | Compton scattering in terrestrial gamma-ray flashes detected with the Fermi gamma-ray burst monitor. <i>Physical Review D</i> , 2014, 90, .  | 4.7 | 16        |
| 36 | IACT observations of gamma-ray bursts: prospects for the Cherenkov Telescope Array. <i>Experimental Astronomy</i> , 2013, 35, 413-457.   | 3.7 | 15        |

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|----|--|-----|-----------|
| 37 | The GLAST Burst Monitor. AIP Conference Proceedings, 2007, , .   | 0.4 | 13        |
| 38 | The 4B BATSE gamma-ray burst catalog. , 1998, , .  |     | 11        |
| 39 | Background estimation in a wide-field background-limited instrument such as Fermi GBM. Proceedings of SPIE, 2012, , .      | 0.8 | 8         |
| 40 | The Fermi view of gamma-ray bursts. Comptes Rendus Physique, 2011, 12, 267-275.  | 0.9 | 6         |
| 41 | Extended Power-Law Decays in BATSE Gamma-Ray Bursts: Signatures of External Shocks?. AIP Conference Proceedings, 2003, , . | 0.4 | 0         |