

# Curriculum Vitae

## Bing Zhang

(November 10, 2009)

### Present address:

Department of Physics and Astronomy  
University of Nevada, Las Vegas  
4505 Maryland Parkway, Box 454002  
Las Vegas, NV 89154-4002

Work phone: (702)895-4050  
Cell phone: (702)505-6722  
FAX: (702)895-0804  
email: zhang@physics.unlv.edu  
<http://www.physics.unlv.edu/~bzhang/>

### Employments:

- Associate Professor, Department of Physics and Astronomy, University of Nevada Las Vegas (UNLV), 7/2008 -
- Assistant Professor, Department of Physics and Astronomy, UNLV, 8/2004 - 6/2008
- Research associate, Department of Astronomy & Astrophysics, Pennsylvania State University, 2000 - 8/2004
- Senior research associate, Canadian Institute of Theoretical Astrophysics (CITA), 2003 - 2004
- National Research Council (NRC) research associate, Laboratory of High Energy Astrophysics, Code 661, NASA Goddard Space Flight Center, 1998 - 2000
- Lecturer and postdoctoral fellow in astrophysics, Peking University, Beijing, P. R. China, 1997-1998
- Visiting scientist, Australia Telescope National Facility (ATNF), CSIRO, and Swinburne University of Technology, Australia, 1998

### Education:

- Ph.D. in Astrophysics, Peking University, 1997
- M.S. in Astrophysics, Peking University, 1994
- B.S. in Geophysics, Peking University, 1991

### Awards & Honors:

- 2009: Thomson Reuters Science Watch analysis: Total number of citations and total number of papers ranked #11 and #6 in the past 10 years in the GRB field; 6 papers identified in the top 20 most cited papers in the past two years; 3 first-author papers identified as the core papers of Research Front Map of “Gamma-Ray Bursts”.
- 2009: College of Sciences Distinct Researcher Award, UNLV
- 2007: First author of the “New Hot Paper” in the field of Space Science identified by *Essential Science Indicators* in July 2007 (Zhang et al. 2006, ApJ, 642, 354)
- 2007: Bruno Rossi Prize, High Energy Astrophysics Division of American Astronomical Society, as a team member (honored to Neil Gehrels and the NASA Swift mission team)
- 2005: Discovery of first afterglow of short duration GRBs (Gehrels, Sarazin, O’Brien, Zhang and 73 coauthors, 2005, Nature, 437, 851) ranked as #4 Breakthrough of Year 2005 by the *Science Magazine*
- 2002: Second Class Award of Science and Technology of China Universities (Leading Co-I,

PI: G. J. Qiao)

- 2000: NASA Special Act Award (joint work with A. K. Harding)
- 1998-2000: National Research Council (NRC) Research Associate Fellowship

### **Professional services:**

- Referee for professional journals: *The Astrophysical Journal*, *Monthly Notices of Royal Astronomical Society*, *Astronomy & Astrophysics*, *Nature*, *Science*, *Physical Review Letters*, *Physical Review D*, *Physics Letters A* *AstroParticle Physics*, *European Physical Journal*, *Chinese Journal of Astronomy & Astrophysics*, *Publication of Astronomical Society of Australia*, *Advances of Space Research*
- NASA peer review panelist: Astrophysical Theory Program (ATP), Astrophysical Theory and Fundamental Physics (ATFP), Astronomy and Physics Research and Analysis Program (APRA), Swift GI Program, Chandra GI Program, GLAST Fellowship Program, NASA Postdoc Program
- Proposal reviewer: NSF, NNSF of China, Israel Science Foundation
- Core theory team member, NASA *Swift* MIDEX GRB mission, 2002-present
- 2005, *Swift* “Burst Advocate”
- 2007-, Co-Investigator and Science team member, JANUS (Joint Astrophysics Nascent Universe Scout), NASA SMEX mission Phase A
- 2007-, Co-Investigator and Science team member of POET (Polarimeters for Energetic Transients), NASA SMEX mission competition
- 2008-, Reviewer, SVOM (Sino-French Joint GRB mission) Phase A PRR (Preliminary Requirements Review)
- 2007, coauthor, “White paper on the status and future of ground-based gamma-ray astronomy”, GRB writing group, Division of Astrophysics, American Physical Society
- 2006, 2008, *Swift* mission senior review proposal contributor
- Coordinator, “KIAA Program on GRB Physics”, Beijing, China, May 4 - June 19m 2009
- Co-Chair of the Science Organizing Committee, “2008 Nanjing GRB Conference”, Nanjing, China, June 23-27, 2008
- Science Organizing Committee (SOC) Member, “The Shocking Universe”, S. Servolo, Sep. 14-18, 2009
- Science Organizing Committee (SOC) Member, “Gamma-ray bursts in the Swift era”, 36th COSPAR, Session E1.1, Beijing, China, July 23, 2006
- Local Organizing Committee (LOC) member, “GRB Physics before Swift”, State College, PA, April 9-10th, 2004
- 2007, Focus: 50 to 100, Identity and Values Steering Committee, UNLV
- 2005, 2006, Faculty Search Committee, Department of Physics, UNLV
- 2005-2007, Graduate Student Recruitment and Admission Committee, Department of Physics (Physics and Astronomy since Jan. 2007), UNLV.
- Graduate thesis committee external member, Mr. Rong-Feng Shen (advisor: Prof. P. Kumar), University of Texas, Austin.
- Graduate thesis committee external member, Ms. Razieh Behkam (advisor: Prof. J. Rhoads), Arizona State University

### **Research funding:**

Funded proposals:

- 2010: PI, NASA ADP: “A broad-band study of gamma-ray bursts and related phenomena”, \$357,233 (starting 04/2010)
- 2009: PI, NASA Fermi GI program (Cycle 2): “Unveiling gamma-ray burst prompt emission with Fermi data”, \$80,001
- 2009: PI, NSF AST: “Understanding gamma-ray burst emission physics with multi-wavelength data”, \$339,621
- 2009: PI, NASA Swift GI Program (Cycle 5): “Modeling prompt gamma-ray/optical emission of GRB 080319B”, \$38,000
- 2009: PI, NASA Chandra General Observer Program, Archival Reserach Project (Cycle 10): “Searching for XRO 080109-like X-ray transients from the Chandra public archive”, \$55,001
- 2008-2011: Co-PI, NASA EPSCoR Program: “Nevada Astrophysics”
- 2007-2008: PI, NASA Swift GI program (Cycle 4): “A joint XRT-UVOT-optical SED analysis: understanding physical origins of multiwavelength afterglows and exploring extinction properties of GRB hosts”, \$47,570
- 2006-2007: PI, NASA Swift GI program (Cycle 3): “Temporal breaks of multi-wavelength GRB afterglow lightcurves”, \$45,000
- 2006-2007: PI, NASA Swift GI program (Cycle 3): “Gamma-ray burst early afterglows”, \$15,000
- 2006-2007: PI, XMM-Newton observational proposal (Cycle 5): “XMM-Newton observation of PSR B0826-34: a test of pulsar inner gap models”, \$41,746
- 2006-2007: PI, NASA Swift GI program (Cycle 2): “Measuring GRB efficiency with Swift data”, \$40,555
- 2005-2006: PI, NASA Swift GI program (Cycle 1): “Early afterglows, X-ray flashes, and short GRBs: the Swift connection”, \$36,000
- 2005-2006: PI, NASA Swift GI program (Cycle 1): “Testing Quasi-Universal Structured Jet Model for GRBs with Swift Data”, \$23,865
- 2004-2009: PI, NASA Long Term Space Astrophysics (LTSA) proposal (No. LTSA 02-0000-0023): “Multi-wavelength study of gamma-ray bursts and their afterglows”, \$535,615
- 2003: PI, XMM-Newton observational proposal (No. 015097, 2003 cycle): “Polar cap heating thermal emission from the old drifting pulsar PSR B0943+10: a test of pulsar inner gap models”, \$44,200
- 2006-2007: Co-I, XMM-Newton observational proposal (Cycle 6): “XMM-NEWTON observation of PSR B0834+06: a test of pulsar inner gap models”, \$26,024
- 2003-2006: Co-I, NASA Astrophysics Theory Program (ATP) proposal (NASA NAG5-13286): “Physics of gamma-ray burst sources” (PI: P. Mészáros)
- 2004-2005: Co-I, Chandra AO5, AO6, AO7, Target of Opportunity (ToO) proposal “A day in the life of a short gamma-ray burst” (PI: D. N. Burrows)
- 2001-2003: Co-I, NASA Astrophysics Theory Program (No. NRA-00-01-ATP-080): “High energy emission from strongly magnetized neutron stars” (PI: A. K. Harding)
- 2005-2008: Co-PI, Two-Base Research Grant of National Science Foundation of China: “Physical Mechanisms of gamma-ray bursts, pulsars and magnetars” (Co-PI: Z. G. Dai)
- 1998: Australian Department of Industry, Science and Tourism Bilateral Science, and Technology Program grant supporting collaborative research with Peking University,
- 1997-1998: PI, China Postdoctoral Science Foundation
- 1997-1998: Co-I, China National Natural Science Foundation (PI: G. J. Qiao)

**Professional societies:**

- American Astronomical Society
- American Physics Society

**Research activities & achievements:**

- Authored or co-authored more than 160 scientific papers that are published in professional journals, including 8 in the *Nature* magazine and 2 in the *Science* magazine.
- As of Nov. 2009, over 7100 citations in total, including over 2100 citations to the first-author papers according to the NASA ADS archives. Citation “H-index” is 51 as of Nov. 2009 according to the NASA ADS archives.
- Leading an active research group at UNLV.
- Core theory team member of NASA Swift mission, theory lead of many Swift collaboration papers.
- Collaborating with over 100 scientists over the world, including collaborators from US, China, UK, Italy, Germany, France, Japan, India, Poland, Mexico, etc.

**Research interest:**

- Theory of gamma-ray bursts and afterglows.
- Data analysis and broad band observations of gamma-ray bursts and afterglows.
- Theory of pulsar magnetosphere and radiation mechanism.
- Broad-band observations of neutron stars.
- Neutrino and cosmic ray astrophysics.
- Other directions in high energy astrophysics (e.g. active galactic nuclei, X-ray binaries, neutron stars and strange quark stars)
- Broad research directions in other fields of astrophysics (planetary sciences, stellar astronomy, cosmology, etc).

**Teaching Activities:**

- fall 2009, fall 2006: AST 725, High Energy Astrophysics (graduate), UNLV
- fall 2008, spring 2006: AST 713, Astrophysics (I) (graduate), UNLV
- spring 2009 (2 sections), spring 2008 (2 sections), fall 2007, spring 2007 (2 sections), spring 2006, fall 2005: AST 104, Introductory Astronomy II: Stars and Galaxies (undergraduate), UNLV (large-section class)
- fall 2004: AST 103, Introductory Astronomy I: Solar System (undergraduate), UNLV (large-section class)
- fall 2002: ASTRO-502, guest instructor, PSU
- spring 2002: ASTRO-550, guest instructor, PSU
- spring 2002: ASTRO-001, guest instructor, PSU
- fall 1998: Frontier in astrophysics (graduate), Peking University
- fall 1997: Radiation mechanisms in astrophysics (graduate), Peking University
- spring 1997: Plasma physics and magnetohydrodynamics (graduate), Peking University
- 1995-1998: Introductory astronomy (undergraduate), Peking University

**Postdoc, Student, Visiting Scholar Supervised:**

- 12/2004-11/2007: Research Associate/Postdoc fellow Dr. Enwei Liang Dept. of Physics & Astronomy, UNLV

- 3/2006-9/2007: Postdoc fellow Dr. Nayantara Gupta, Dept. of Physics & Astronomy, UNLV
- 10/2004-6/2005: Postdoc fellow Dr. Jaroslaw Dyks, Dept. of Physics & Astronomy, UNLV
- 8/2004-: Graduate student Mr. Francisco Virgili, Dept. of Physics & Astronomy, UNLV
- 8/2005-: Graduate student Ms. Amanda Maxham, Dept. of Physics & Astronomy, UNLV
- 1/2007-: Graduate student of Mr. David Whitehead, Dept. of Physics & Astronomy, UNLV
- 9/2006-: Graduate student Mr. Bin-Bin Zhang, Dept. of Physics & Astronomy, UNLV (9/2006-8/2007 as a visiting student from Yunan Astronomical Observatory, China)
- 11/2007-: Undergraduate student Ms. Tesla Birnbaum, Dept. of Physics & Astronomy, UNLV
- 9/2008-: Undergraduate student Mr. Robert Gex, Dept. of Physics & Astronomy, UNLV
- 8/2004-7/2005: Visiting student and scholar Dr. Yizhong Fan, Dept. Physics & Astronomy, UNLV (from Purple Mountain Astronomical Observatory, China)
- 1/2005-7/2005: Visiting professor Dr. Janusz Gil, Dept. of Physics & Astronomy, UNLV (from University of Zielona Gora, Poland)
- 1/2006-4/2006: Visiting professor Dr. Zigao Dai, Dept. of Physics & Astronomy, UNLV (from Nanjing University, China)
- 11/2007: Visiting scholar, Dr. Xue-Feng Wu, Dept. of Physics & Astronomy, UNLV (from Purple Mountain Observatory, Chinese Academy of Sciences, China)
- 3/2009: Visiting scholar, Prof. Sarira Sahu, Dept. of Physics & Astronomy, UNLV (from UNAM, Mexico)
- 4/2009: Visiting scholar, Dr. Huirong Yan, Dept. of Physics & Astronomy, UNLV (from Univ. of Arizona)
- 8/2009-11/2009: Visiting scholar, Dr. Resmi LekShmi, Dept. of Physics & Astronomy, UNLV (from IAP, France)
- 6/2007: Visiting student Ms. Razieh Behkam, Dept. of Physics & Astronomy, UNLV (from Arizona State University)
- 8/2007: Visiting student Mr. Rongfeng Shen, Dept. of Physics & Astronomy, UNLV (from University of Texas, Austin)
- 4/2008-5/2008: Visiting student Ms. Nicola Lyons, Dept. of Physics & Astronomy, UNLV (from University of Leicester, UK)
- 4/2008-6/2008: Visiting scholar Dr. Yosuke Mizuno, Dept. of Physics & Astronomy, UNLV (from National Space Science and Technology Center, Huntsville)
- 10/2008-11/2008: Visiting student Mr. Kohta Murase, (from Yukawa Institute, Kyoto University, Japan)

### Media Coverage and Public Outreach:

- Nov. 2009, my News & Views “Most distant cosmic blast seen” published in Nature along with the discovery papers of GRB 090423 at  $z = 8.2$ . Multiple media sources reported this discovery along with my commentary.
- Aug. 2009, UNLV astronomy program in UNLV *Innovation* magazine (cover page)
- July 2009, my paper (Zhang & Pe’er, 2009, ApJ, 700, L65) featured in *Astronomy.com* blog. <http://cs.astronomy.com/asycs/blogs/astronomy/2009/07/24/mysterious-gamma-ray-bursts-continue-to-surprise.aspx>
- May 12, 2009, *Las Vegas Sun* reported my work on GRBs. <http://www.lasvegassun.com/news/2009/may/12/search-universal-truth/>
- Sep. 2008, multiple media sources reported the discovery of the “naked-eye” GRB 080319B

- by the Swift team, including the two-jet model proposed by the theory team. UNLV Press Release is available at <http://www.unlv.edu/news/story.html?id=667>
- Jul. 2007, interviewed by Essential Science Indicators regarding my first author paper which was identified as the New Hot Paper in the Space Science in July 2007. The interview is available at <http://www.esi-topics.com/nhp/2007/july-07-BinZhang.html>
  - Apr. 30, 2007, *Las Vegas Review-Journal* published an article “Shining star at UNLV: Astrophysicist puts school on astronomy map” (by Lawrence Mower, <http://www.lvrj.com/news/7251196.html>) to report my research at UNLV
  - Feb. 2007, our discovery that the long GRB 060614 is closely related to merger-type short GRBs and our suggestion to re-classify GRBs into Type I and Type II (Zhang et al. 2007, *ApJ*, 655, L25) are reported in the “Research Highlights” column of *Nature* magazine (2007, *Nature*, 445, 462).
  - Nov. 2006, invited by the Nature magazine to write a News & Views article on 4 recent papers accepted by Nature on the peculiar GRB 060614.
  - Aug. 2006, multiple media sources reported the discovery of the nearby GRB 060218 with supernova association by the *Swift* team (Campana et al. 2006, *Nature*, 442, 31).
  - Mar. 2006, multiple media sources reported the discovery of the most distant gamma-ray bursts by the *Swift* team (Cusumano et al. 2006, *Nature*, 440, 164).
  - Feb. 2006, interviewed by *Sky and Telescope*, our Science paper (Dai et al. 2006, *Science*, 311, 1127) was reported in an article published in *Sky and Telescope*
  - Jan. 2006, Science magazine ranks solving the short GRB mystery as #4 of the Top Ten breakthroughs in year 2005. Our Swift paper (Gehrels et al. 2005, *Nature*, 437, 851) was one of the papers listed for this breakthrough.
  - Dec. 2005, multiple media sources reported the discovery of short GRB 050724 in an elliptical galaxy (Barthelmy et al. 2005, *Nature*, 438, 994) by the Swift team. My name was mentioned in these reports.
  - Oct. 2005, multiple media sources reported the discovery of the first X-ray afterglow of a short GRB (050509B) by the *Swift* team (Gehrels et al. 2005, *Nature*, 437, 851).
  - Sep. 2005, multiple media sources reported the discovery of erratic X-ray flares following gamma-ray bursts by the *Swift* team (Burrows et al. 2005, *Science*, 309, 1833).
  - Aug. 2005, multiple media sources reported the discovery of very early X-ray afterglows of gamma-ray bursts by the *Swift* team (Tagliaferri et al. 2005, *Nature*, 436, 985).
  - Mar. 2003, telephone interviewed by the *Science* magazine on the discoveries of early optical afterglows of GRB 021004 and GRB 021211 as well as their theoretical interpretations. Some contents of the interview were reported in *Science* (2003), V299 (Mar. 21), p1833
  - Aug. 2003, our finding (Zhang, Kobayashi & Mészáros, 2003, *ApJ*, 595, 950) that the GRB central engine is strongly magnetized was reported in the *Physics World* magazine (2003), V16(8), p17
  - Apr. 2002, independent commentator for the press conference “X-ray flashes” at the APS/HEAD meeting, Albuquerque, NM (April 23, 2002). Reported in AAS Newsletter (June 2002), and in the *Sky & Telescope* magazine (2002), V104(2), p20
  - Aug. 2002, our suggestion (Zhang & Sigurdsson 2003, *ApJ*, 596, L95) about prompt flashes of planetary collisions was reported in the “News and views in brief” column of the *Nature* magazine (2003), V424, p1011. It was also reported at <http://www.astronomy.com/Content/Dynamic/Articles/000/000/001/526eqvsc.asp>
  - Given public lectures on astronomy, astrophysics, and cosmology many times to the

audiences ranging from undergraduate freshmen to interested adults in US and China

**Personal Information:**

- Birth: Nov. 9, 1968, Shanxi, P. R. China
- Male, Married with two children
- Permanent resident of the United States; citizen of People's Republic of China

# Publications & Professional Talks

## 1. Papers in refereed journals (not including submitted papers):

166. Amanda Maxham, **Bing Zhang**, “Modeling gamma-ray burst X-ray flares within the internal shock model”, 2009, ApJ, in press
165. En-Wei Liang, Hou-Jun Lv, Shu-Jin Hou, Bin-Bin Zhang, **Bing Zhang**, “A Comprehensive Analysis of Swift/XRT Data: IV. Single Power-Law Decaying XRT lightcurves and Implications for the Unified Origin of the X-rays”, 2009, ApJ, in press (arXiv:0902.3504)
164. N. Lyons, P.T. O’Brien, **B. Zhang**, R. Willingale, E. Troja, R.L.C. Starling, “Can X-ray emission powered by a spinning-down magnetar explain some GRB light curve features?”, 2009, MNRAS, in press (arXiv:0908.3798)
163. **Bing Zhang**, “Astrophysics: Most distant cosmic blast seen”, 2009, Nature, 461, 1221-1223
162. **Bing Zhang**, Bin-Bin Zhang, Francisco J. Virgili, En-Wei Liang, D. Alexander Kann, Xue-Feng Wu, Daniel Proga, Hou-Jun Lv, Kenji Toma, Peter Meszaros, David N. Burrows, Peter W. A. Roming, Neil Gehrels, “Discerning the physical origins of cosmological Gamma-ray bursts based on multiple observational criteria: the cases of  $z=6.7$  GRB 080913,  $z=8.3$  GRB 090423, and some short/hard GRBs”, 2009, ApJ, 703, 1696-1724
161. K.L. Page, R. Willingale, E. Bissaldi, A. de Ugarte Postigo, S.T. Holland, S. McBreen, P.T. O’Brien, J.P. Osborne, J.X. Prochaska, E. Rol, E.S. Rykoff, R.L.C. Starling, N.R. Tanvir, A.J. van der Horst, K. Wiersema, **B. Zhang**, F.J. Aceituno, C. Akerlof, A.P. Beardmore, M.S. Briggs, D.N. Burrows, A.J. Castro-Tirado, V. Connaughton, P.A. Evans, J.P.U. Fynbo, N. Gehrels, C. Guidorzi, A.W. Howard, J.A. Kennea, C. Kouveliotou, C. Pagani, R. Preece, D. Perley, F. Yuan, “Multi-wavelength observations of the energetic GRB 080810: detailed mapping of the broadband spectral evolution”, 2009, MNRAS, in press (arXiv:0907.4578)
160. Rong-Feng Shen, **Bing Zhang**, “Prompt optical emission and synchrotron self-absorption constraints on emission site of GRBs”, 2009, MNRAS, 398, 1936-1950
159. **Bing Zhang**, Asaf Pe’er, “Evidence of an initially magnetically-dominated outflow in GRB 080916C”, 2009, ApJ, 700, L65-L68
158. Kohta Murase, **Bing Zhang**, Keitaro Takahashi, Shigehiro Nagataki, “Possible effects of pair echoes on Gamma-Ray Burst afterglow emission”, 2009, MNRAS, 396, 1825-1832
157. K.-I. Nishikawa, J. Niemiec, P. E. Hardee, M. Medvedev, H. Sol, Y. Mizuno, **B. Zhang**, M. Pohl, M. Oka, D. H. Hartmann, “Weibel Instability and Associated Strong Fields in a Fully Three-Dimensional Simulation of a Relativistic Shock”, 2009, ApJ, 698, L10-L13
156. Kenji Toma, Takanori Sakamoto, **Bing Zhang**, Joanne E. Hill, Mark L. McConnell, Peter F. Blosler, Ryo Yamazaki, Kunihito Ioka, Takashi Nakamura, “Statistical properties of gamma-ray burst polarization”, 2009, ApJ, 698, 1042-1053
155. J. L. Racusin, E. W. Liang, D. N. Burrows, A. Falcone, T. Sakamoto, B. B. Zhang, **B. Zhang**, P. Evans, J. Osborne, “Jet Breaks and Energetics of Swift Gamma-Ray Burst X-Ray Afterglows”, 2009, ApJ, 698, 43-74
154. Kohta Murase, Peter Mészáros, **Bing Zhang**, “Probing the birth of fast rotating magnetars through high-energy neutrinos”, 2009, PRD, 79, 103001

153. K. L. Page, R. Willingale, P. T. O'Brien, N. R. Tanvir, J. P. Osborne, **B. Zhang**, S. T. Holland, A. J. Levan, A. Melandri, R. L. C. Starling, D. Bersier, D. N. Burrows, J. E. Geach, P. Maxted, "The unusual X-ray light-curve of GRB 080307: the onset of the afterglow?", 2009, MNRAS, 395, 328-334
152. J. Greiner, T. Kruehler, J. P. U. Fynbo, A. Rossi, R. Schwarz, S. Klose, S. Savaglio, N. R. Tanvir, S. McBreen, T. Totani, B. B. Zhang, X. F. Wu, D. Watson, S. D. Barthelmy, A. P. Beardmore, P. Ferrero, N. Gehrels, D. A. Kann, N. Kawai, A. Kuepcue Yoldas, P. Meszaros, B. Milvang-Jensen, S. R. Oates, D. Pierini, P. Schady, K. Toma, P. M. Vreeswijk, A. Yoldas, **B. Zhang**, P. Afonso, K. Aoki, D. N. Burrows, C. Clemens, R. Filgas, Z. Haiman, D. H. Hartmann, G. Hasinger, J. Hjorth, E. Jehin, A. J. Levan, E. W. Liang, D. Malesani, T.-S. Pyo, S. Schulze, G. Szokoly, H. Terada, K. Wiersema, "GRB 080913 at redshift 6.7", 2009, ApJ, 693, 1610-1620
151. Yi-Zhong Fan, **Bing Zhang**, Da-Ming Wei, "Naked-eye optical flash from gamma-ray burst 080319B: tracing the decaying neutrons in the outflow", 2009, PRD, 79, 021301(R)
150. Bin-Bin Zhang, **Bing Zhang**, En-Wei Liang, Xiang-Yu Wang, "Curvature Effect of a Non-Power-Law Spectrum and Spectral Evolution of GRB X-Ray Tails", 2009, ApJ, 690, L10-L13
149. Yosuke Mizuno, **Bing Zhang**, Bruno Giacomazzo, Ken-Ichi Nishikawa, Philip E. Hardee, Shigehiro Nagataki, Dieter H. Hartmann, "Magnetohydrodynamic Effects in Propagating Relativistic Jets: Reverse Shock and Magnetic Acceleration", 2009, ApJ, 690, L47-L51
148. Francisco Virgili, Enwei Liang, **Bing Zhang**, "Low-Luminosity Gamma-Ray Bursts as a Distinct GRB Population: A Firmer Case from Multiple Criteria Constraints", 2009, MNRAS, 392, 91-103
147. N. Gehrels, S. D. Barthelmy, D. N. Burrows, J. K. Cannizzo, G. Chincarini, E. Fenimore, C. Kouveliotou, P. O'Brien, D. M. Palmer, J. Racusin, P. W. A. Roming, T. Sakamoto, J. Tueller, R. A. M. J. Wijers, **B. Zhang**, "Correlations of Prompt and Afterglow Emission in Swift Long and Short Gamma Ray Bursts", 2008, ApJ, 689, 1161-1172
146. Kentaro Nagamine, **Bing Zhang**, Lars Hernquist, "Incidence Rate of GRB-host-DLAs at High Redshift", 2008, ApJ, 686, L57-L60
145. J. Gil, F. Haberl, G. Melikidze, U. Geppert, **B. Zhang**, G. Melikidze Jr, "XMM-Newton Observations of Radio Pulsars B0834+06 and B0826-34 and Implications for Pulsar Inner Accelerator", 2008, ApJ, 686, 497-507
144. J. L. Racusin, S.V. Karpov, M. Sokolowski, J. Granot, X. F. Wu, V. Pal'shin, S. Covino, A.J. van der Horst, S. R. Oates, P. Schady, R. J. Smith, J. Cummings, R.L.C. Starling, L. W. Piotrowski, **B. Zhang**, P.A. Evans, S. T. Holland, K. Malek, M. T. Page, L. Vetere, R. Margutti, C. Guidorzi, A. Kamble, P.A. Curran, A. Beardmore, C. Kouveliotou, L. Mankiewicz, A. Melandri, P.T. O'Brien, K.L. Page, T. Piran, N. R. Tanvir, G. Wrochna, R.L. Aptekar, C. Bartolini, S. Barthelmy, G. M. Beskin, S. Bondar, S. Campana, A. Cucchiara, M. Cwiok, P. D'Avanzo, V. D'Elia, M. Della Valle, W. Dominik, A. Falcone, F. Fiore, D. B. Fox, D. D. Frederiks, A. S. Fruchter, D. Fugazza, M. Garrett, N. Gehrels, S. Golenetskii, A. Gomboc, G. Greco, A. Guarnieri, S. Immler, G. Kasproiwicz, A. J. Levan, E. P. Mazets, E. Molinari, A. Moretti, K. Nawrocki, P. P. Oleynik, J. P. Osborne<sup>12</sup>, C. Pagani, Z. Paragi, M. Perri, A. Piccioni, E. Ramirez-Ruiz, P. W. A. Roming, I. A. Steele, R. G. Strom, V. Testa, G. Tosti, M. V. Ulanov, K. Wiersema, R. A. M. J. Wijers, A. F. Zarnecki, F. Zerbi, P. Mészáros, G. Chincarini, D. N. Burrows, "Broadband observations of the naked-eye gamma-ray burst GRB080319B", 2008, Nature, 455, 183-188

143. Nayantara Gupta, **Bing Zhang**, “Constraining Galactic  $p\gamma$  Interactions with Cosmic Ray Electron and Positron Spectra”, 2008, ChJAA, 8, 153-158
142. T. Sakamoto, S. D. Barthelmy, L. Barbier, J. R. Cummings, E. E. Fenimore, N. Gehrels, D. Hullinger, H. A. Krimm, C. B. Markwardt, D. M. Palmer, A. M. Parsons, G. Sato, M. Stamatikos, J. Tueller, T. N. Ukwatta, **B. Zhang**, “The First Swift BAT Gamma-Ray Burst Catalog”, 2008, ApJS, 175, 179-190
141. En-Wei Liang, Judith L. Racusin, **Bing Zhang**, Bin-Bin Zhang, David N. Burrows, “A Comprehensive Analysis of Swift/XRT Data: III. Jet Break Candidates in X-ray and Optical Afterglow Lightcurves”, 2008, ApJ, 675, 528-552
140. Nayantara Gupta, **Bing Zhang**, “Diagnosing the site of gamma-ray burst prompt emission with spectral cut-off energy”, 2008, MNRAS, 384, L11-L15
139. Yosuke Mizuno, Philip Hardee, Dieter H. Hartmann, Ken-Ichi Nishikawa, **Bing Zhang**, 2008, ApJ, 672, 72-82
138. G. Chincarini, A. Moretti, P. Romano, A.D. Falcone, D. Morris, J. Racusin, S. Campana, C. Guidorzi, G. Tagliaferri, D.N. Burrows, C. Pagani, M. Stroh, D. Grupe, M. Capalbi, G. Cusumano, N. Gehrels, P. Giommi, V. La Parola, V. Mangano, T. Mineo, J.A. Nousek, P.T. O’Brien, K.L. Page, M. Perri, E. Troja, R. Willingale, **B. Zhang**, “The First Survey of X-ray Flares from Gamma Ray Bursts Observed by Swift: Temporal Properties and Morphology”, 2007, ApJ, 671, 1903-1920
137. En-Wei Liang, Bin-Bin Zhang, **Bing Zhang**, “A Comprehensive Analysis of the Swift/XRT Data: II. Diverse Physical Origins of the Shallow Decay Segment”, 2007, ApJ, 670, 565-583
136. P. Schady, M. de Pasquale, M. J. Page, L. Vetere, S. B. Pandey, X. Y. Wang, J. Cummings, **B. Zhang**, S. Zane, A. Breeveld, D. N. Burrows, N. Gehrels, C. Gronwall, S. Hunsberger, C. Markwardt, K. O. Mason, P. Mészáros, J. P. Norris, S. R. Oates, C. Pagani, T. S. Poole, P. W. A. Roming, P. J. Smith, D. E. vanden Berk, “Extreme properties of GRB061007: a highly energetic or a highly collimated burst?”, 2007, MNRAS, 380, 1041-1052
135. Nayantara Gupta, **Bing Zhang**, “Prompt emission of high energy photons from gamma-ray bursts”, 2007, MNRAS, 380, 78-92
134. Bin-Bin Zhang, En-Wei Liang, **Bing Zhang**, “A comprehensive analysis of Swift/XRT data: I. Spectral evolution of GRB X-ray tails and implications for cooling of the prompt emission region”, 2007, ApJ, 666, 1002-1011
133. Guo-Jun Qiao, Ke-Jia Lee, **Bing Zhang**, Hong-Guang Wang, Ren-Xin Xu, “An annular gap acceleration model for gamma-ray emission of pulsars”, 2007, ChJAA, 7, 496-502
132. O. Godet, K. L. Page, J. Osborne, **B. Zhang**, D. N. Burrows, P. T. O’Brien, J. E. Hill, J. Racusin, A. D. Beardmore, M. R. Goad, A. Falcone, D. C. Morris, H. Ziaeeepour, “GRB 050822: detailed analysis of an XRF observed by Swift”, 2007, A&A, 471, 385-394
131. V. Mangano, S.T. Holland, D. Malesani, E. Troja, G. Chincarini, **B. Zhang**, V. La Parola, P.J. Brown, D.N. Burrows, S. Campana, M. Capalbi, G. Cusumano, M. Della Valle, N. Gehrels, P. Giommi, D. Grupe, C. Guidorzi, T. Mineo, A. Moretti, J.P. Osborne, S.B. Pandey, M. Perri, P. Romano, P.W.A. Roming, G. Tagliaferri, “Swift observations of GRB 060614: an anomalous burst with a well behaved afterglow”, 2007, A&A, 470, 105-118
130. E. Troja, G. Cusumano, P. O’Brien, **B. Zhang**, B. Sbarufatti, V. Mangano, R. Willingale, G. Chincarini, J. P. Osborne, F. E. Marshall, D. N. Burrows, S. Campana, N.

- Gehrels, C. Guidorzi, H. A. Krimm, V. La Parola, E. W. Liang, T. Mineo, A. Moretti, K. L. Page, P. Romano, G. Tagliaferri, B. B. Zhang, M. J. Page, P. Schady, “Swift observations of GRB 070110: an extraordinary X-ray afterglow powered by the central engine”, 2007, *ApJ*, 665, 599-607
129. K.L. Page, R. Willingale, J.P. Osborne, **B. Zhang**, O. Godet, F.E. Marshall, A. Melandri, J.P. Norris, P.T. O’Brien, V. Pal’shin, E. Rol, P. Romano, R.L.C. Starling, P. Schady, S.A. Yost, S.D. Barthelmy, A.P. Beardmore, G. Cusumano, D.N. Burrows, M. De Pasquale, M. Ehle, P.A. Evans, N. Gehrels, M.R. Goad, S. Golenetskii, C. Guidorzi, C. Mundell, M.J. Page, G. Ricker, T. Sakamoto, B.E. Schaefer, M. Stamatikos, E. Troja, M. Ulanov, F. Yuan, H. Ziaeeepour, “GRB 061121: Broadband spectral evolution through the prompt and afterglow phases of a bright burst”, 2007, *ApJ*, 663, 1125-1138
128. Massimiliano De Pasquale, S. R. Oates, M. J. Page, D. N. Burrows, A. J. Blustin, S. Zane, K. O. Mason, P. W. A. Roming, D. Palmer, N. Gehrels, **B. Zhang**, “Early afterglow detection in the Swift observations of GRB 050801”, 2007, *MNRAS*, 377, 1638-1646
127. P. Giommi, M. Capalbi, E. Cavazzuti, S. Colafrancesco, A. Cucchiara, A. Falcone, J. Kennea, R. Nesci, M. Perri, G. Tagliaferri, A. Tramacere, G. Tosti, A.J. Blustin, G. Branduardi-Raymont, D.N. Burrows, G. Chincarini, A.J. Dean, N. Gehrels, H. Krimm, F. Marshall, A.M. Parsons, **B. Zhang**, “Swift detection of all previously undetected blazars in a micro-wave flux-limited sample of WMAP foreground sources”, 2007, *A&A*, 468, 571-579
126. Enwei Liang, **Bing Zhang**, Francisco Virgili, Z. G. Dai, “Low luminosity gamma-ray bursts as a unique population: luminosity function, local rate, and beaming factor”, 2007, *ApJ*, 662, 1111-1118
125. R. Willingale, P. T. O’Brien, J. P. Osborne, O. Godet, K. L. Page, M. R. Goad, D. N. Burrows, **B. Zhang**, E. Rol, N. Gehrels, G. Chincarini, “Testing the standard fireball model of GRBs using late X-ray afterglows measured by Swift”, 2007, *ApJ*, 662, 1093-1110
124. Dirk Grupe, Caryl Gronwall, Xiang-Yu Wang, Peter Roming, Jay Cummings, **Bing Zhang**, Peter Mészáros, Maria Diaz Trigo, Paul T. O’Brien, Kim Page, Andy Beardmore, Olivier Godet, Daniel vanden Berk, Peter Brown, Scott Koch, David Morris, Michael Stroh, David N. Burrows, John A. Nousek, Margaret McMath Chester, Stefan Immler, Vanessa Mangano, Patrizia Romano, Guido Chincarini, Julian Osborne, Takanori Sakamoto, Neil Gehrels, “Swift and XMM-Newton Observations of the Extraordinary GRB 060729: An afterglow with a more than 100 days X-ray light curve”, 2007, *ApJ*, 662, 443-458
123. Nayantara Gupta, **Bing Zhang**, “Neutrino spectra from low and high luminosity populations of gamma-ray bursts”, 2007, *AstroParticle Physics*, 27, 386-391
122. J. Gil, G. Melikidze, **B. Zhang**, “X-ray pulsar radiation from polar cap heated by back-flow bombardment”, 2007, *MNRAS*, 376, L67-L71
121. S. A. Yost, H. F. Swan, E. S. Rykoff, F. Aharonian, C. W. Akerlof, A. Alday, M. C. B. Ashley, S. Barthelmy, D. Burrows, D. L. Depoy, R. J. Dufour, J. D. Eastman, R. D. Forgy, N. Gehrels, E. Gogus, T. Guver, J. P. Halpern, L. C. Hardin, D. Horns, U. Kiziloglu, H. A. Krimm, S. Lepine, E. P. Liang, J. L. Marshall, T. A. McKay, T. Mineo, N. Mirabal, M. Ozel, A. Phillips, J. L. Prieto, R. M. Quimby, P. Romano, G. Rowell, W. Rujopakarn, B. E. Schaefer, J. M. Silverman, R. Siverd, M. Skinner, D. A. Smith, I. A. Smith, S. Tonnesen, E. Troja, W. T. Vestrand, J. C. Wheeler, J. Wren, F. Yuan, **B. Zhang**, “Exploring broadband GRB behavior during gamma-ray emission”, 2007, *ApJ*,

- 657, 925-941
120. **Bing Zhang**, “Gamma-ray bursts in the Swift era”, Chinese Journal of Astronomy & Astrophysics, 7, 1 (invited review)
  119. A. P. Beardmore, K. L. Page, P. T. O’Brien, J. P. Osborne, S. Kobayashi, **B. Zhang**, D. N. Burrows, M. R. Goad, O. Godet, J. E. Hill, V. La Parola, F. Marshall & A. A. Wells, “The Swift gamma-ray burst GRB 050422”, 2007, MNRAS, 374, 1473-1478
  118. S. Casanova, B. L. Dingus, **Bing Zhang**, “Contribution of GRB emission to the GeV extragalactic diffuse gamma-ray flux”, 2007, ApJ, 656, 306
  117. **Bing Zhang**, Enwei Liang, Kim L. Page, Dirk Grupe, Scott D. Barthelmy, David N. Burrows, Sergio Campana, Guido Chincarini, Neil Gehrels, Shiho Kobayashi, Peter Mészáros, Alberto Morreti, John A. Nousek, Paul T. O’Brien, Julian P. Osborne, Peter W. A. Roming, Takanori Sakamoto, Patricia Schady, Richard Willingale, “GRB radiative efficiency derived from the Swift data: GRBs vs. XRFs, long vs. short”, 2007, ApJ, 655, 989
  116. Shiho Kobayashi & **Bing Zhang**, “The onset of gamma-ray burst afterglow”, 2007, ApJ, 655, 973
  115. **Bing Zhang**, Janusz Gil & Jaroslaw Dyks, “On the origins of part time radio pulsars”, 2007, MNRAS, 374, 1103
  114. C. M. Zhang, H. X. Yin, Y. Kojima, H. K. Chang, R. X. Xu, X. D. Li, **B. Zhang**, B. Kiziltan, “Measuring neutron star mass and radius with three mass-radius relations”, 2007, MNRAS, 374, 232
  113. **Bing Zhang**, Bin-Bin Zhang, En-Wei Liang, Neil Gehrels, David N. Burrows & Peter Mészáros, “Making a short Gamma-ray burst from a long one: implications for the nature of GRB 060614”, 2007, ApJ, 655, L25
  112. S. Kobayashi, **B. Zhang**, P. Mészáros, D. N. Burrows, “Inverse Compton X-ray flare from GRB reverse shock”, 2007, ApJ, 655, 391
  111. G. Cusumano, V. Mangano, G. Chincarini, A. Panaitescu, D.N. Burrows, V. La Parola, T. Sakamoto, S. Campana, T. Mineo, G. Tagliaferri, L. Angelini, S.D. Barthelemy, A.P. Beardmore, P.T. Boyd, L. Cominsky, C. Gronwall, E.E. Fenimore, N. Gehrels, P. Giommi, M. Goad, K. Hurley, S. Immler, J.A. Kennea, K.O. Mason, F. Marshall, P. Mészáros, J.A. Nousek, J.P. Osborne, D.M. Palmer, P.W.A. Roming, A. Wells, N.E. White, **B. Zhang**, “Swift observations of GRB050904: the most distant cosmic explosion ever observed”, 2006, A&A, 462, 73
  110. Vanessa Mangano, Valentina La Parola, Giancarlo Cusumano, Teresa Mineo, Daniele Malesani, Jaroslaw Dyks, Sergio Campana, Milvia Capalbi, Guido Chincarini, Paolo Giommi, Alberto Moretti, Matteo Perri, Patrizia Romano, Gianpiero Tagliaferri, David N. Burrows, Neil Gehrels, Olivier Godet, Stephen T. Holland, Jamie A. Kennea, Kim L. Page, Judith L. Racusin, Peter W. A. Roming, **Bing Zhang**, “Swift XRT Observations of the Afterglow of XRF 050416A”, 2007, ApJ, 654, 403
  109. **Bing Zhang**, “A burst of new ideas”, 2006, Nature, 444, 1010
  108. En-Wei Liang, Bin-Bin Zhang, Michael Stamatikos, **Bing Zhang**, Jay Norris, Neil Gehrels, Jin Zhang, Z. G. Dai, “Temporal profiles and spectral lags of XRF 060218”, 2006, ApJ, 653, L81
  107. David N. Burrows, Dirk Grupe, Milvia Capalbi, Alin Panaitescu, Sandeep K. Patel, Chryssa Kouveliotou, **Bing Zhang**, Peter Mészáros, Guido Chincarini, N. Gehrels, Ralph

- A.M. Wijers, “Jet Breaks in Short Gamma-Ray Bursts. II: The Collimated Afterglow of GRB 051221A”, 2006, *ApJ*, 653, 468
106. Dirk Grupe, David N. Burrows, Sandeep K. Patel, Chryssa Kouveliotou, **Bing Zhang**, Peter Mészáros, Ralph A.M. Wijers, Neil Gehrels, “Jet Breaks in Short Gamma-Ray Bursts. I: The Uncollimated Afterglow of GRB 050724”, 2006, *ApJ*, 653, 462
105. Asaf Pe’er, **Bing Zhang**, “Synchrotron emission in small scale magnetic field as possible explanation to prompt emission spectra of Gamma-Ray bursts”, 2006, *ApJ*, 653, 454
104. P.W.A. Roming, P. Schady, D.B. Fox, **B. Zhang**, E. Liang, K.O. Mason, E. Rol, D.N. Burrows, A.J. Blustin, P.T. Boyd, P. Brown, S.T. Holland, K. McGowan, W.B. Landsman, K.L. Page, J.E. Rhoads, S.R. Rosen, S.D. Barthelmy, A.A. Breeveld, A. Cucchiara, M. De Pasquale, E.E. Fenimore, N. Gehrels, C. Gronwall, D. Grupe, M.R. Goad, M. Ivanushkina, C. James, J.A. Kennea, S. Kobayashi, V. Mangano, P. Mészáros, A.N. Morgan, J.A. Nousek, J.P. Osborne, D.M. Palmer, T. Poole, M.D. Still, G. Tagliaferri, S. Zane, “Suppression of the Early Optical Afterglow of Gamma-Ray Bursts”, 2006b, *ApJ*, 652, 1416
103. Peter W. A. Roming, Daniel Vanden Berk, Valentin Palshin, Claudio Pagani, Jay Norris, Pawan Kumar, Hans Krimm, Stephen T. Holland, Caryl Gronwall, Alex J. Blustin, **Bing Zhang**, Patricia Schady, Takanori Sakamoto, Julian P. Osborne, John A. Nousek, Frank E. Marshall, Peter Mészáros, Sergey V. Golenetskii, Neil Gehrels, Dmitry D. Frederiks, Sergio Campana, David N. Burrows, Patricia T. Boyd, Scott Barthelmy, R.L. Aptekar, “GRB 060313: A New Paradigm for Short-Hard Bursts?”, 2006a, *ApJ*, 651, 985
102. Janusz Gil, George Melikidze, **Bing Zhang**, “Formation of a partially-screened inner acceleration region in radio pulsars: drifting subpulses and thermal X-ray emission from polar cap surface”, 2006b, *ApJ*, 650, 1048
101. Janusz Gil, George Melikidze, **Bing Zhang**, “Interrelation between radio and X-ray signatures of drifting subpulses in pulsars”, 2006a, *A&A*, 457, L5
100. A.J. Levan, J.P. Osborne, N.R. Tanvir, K.L. Page, E. Rol, **B. Zhang**, M.R. Goad, P.T. O’Brien, R.S. Priddey, D. Bersier, D.N. Burrows, R. Chapman, A.S. Fruchter, P. Giommi, N. Gehrels, M.A. Hughes, S. Pak, C. Simpson, G. Tagliaferri, E. Vardoulaki, “The first Swift X-ray Flash: The faint afterglow of XRF 050215B”, 2006, *ApJ*, 648, 1132
99. H. A. Krimm, C. Hurkett, V. Pal’shin, J. P. Norris, **B. Zhang**, S. D. Barthelmy, D. N. Burrows, N. Gehrels, S. Golenetskii, J. P. Osborne, A. M. Parsons, M. Perri, R. Willingale, “GRB 050717: A Long, Short-Lag, High Peak Energy Burst Observed by Swift and Konus”, 2006, *ApJ*, 648, 1117
98. S. Campana, V. Mangano, A. J. Blustin, P. Brown, D.N. Burrows, G. Chincarini, J.R. Cummings, G. Cusumano, M. Della Valle, D. Malesani, P. Mészáros, J.A. Nousek, M. Page, T. Sakamoto, E. Waxman, **B. Zhang**, Z.G. Dai, N. Gehrels, S. Immler, F.E. Marshall, K.O. Mason, A. Moretti, P.T. O’Brien, J.P. Osborne, K.L. Page, P. Romano, P.W.A. Roming, G. Tagliaferri, L.R. Cominsky, P. Giommi, O. Godet, J.A. Kennea, H. Krimm, L. Angelini, S.D. Barthelmy, P.T. Boyd, D.M. Palmer, A.A. Wells, N.E. White, “The association of GRB 060218 with a supernova and the evolution of the shock wave”, 2006, *Nature*, 442, 1008
97. P. Romano, S. Campana, G. Chincarini, J. Cummings, G. Cusumano, S. T. Holland, V. Mangano, T. Mineo, K. L. Page, V. Pal’shin, E. Rol, T. Sakamoto, **B. Zhang**, R. Aptekar, L. Barbier, S. Barthelmy, A. P. Beardmore, P. Boyd, D. N. Burrows, M. Capalbi, E. E. Fenimore, D. Frederiks, N. Gehrels, P. Giommi, S. Golenetskii, M. R. Goad, O.

- Godet, O., D. Guetta, J. A. Kennea, V. La Parola, D. Malesani, F. Marshall, A. Moretti, J. A. Nousek, M. Perri, P. T. O'Brien, J. P. Osborne, G. Tagliaferri, "Multi-wavelength study of GRB 060124: from precursor to afterglow", 2006, *A&A*, 456, 917
96. P.T. O'Brien, R. Willingale, J. Osborne, M.R. Goad, K.L. Page, S. Vaughan, E. Rol, A. Beardmore, O. Godet, C. Hurkett, A. Wells, **B. Zhang**, S. Kobayashi, D.N. Burrows, J.A. Nousek, J.A. Kennea, A. Falcone, D. Grupe, N. Gehrels, S. Barthelmy, J. Cannizzo, J. Cummings, J. Hill, H. Krimm, G. Chincarini, G. Tagliaferri, S. Campana, A. Moretti, P. Giommi, M. Perri, V. Mangano, V. LaParola, "The early X-ray emission from GRBs", 2006, *ApJ*, 647, 1213
95. Massimiliano De Pasquale, Dirk Grupe, T. S. Poole, A. A. Breeveld, S. Zane, S. R. Rosen, M. J. Page, K. O. Mason, D. N. Burrows, H. A. Krimm, N. Gehrels, J. A. Nousek, P. W. A. Roming, S. Kobayashi, **B. Zhang**, "Swift observations of GRB 050712", 2006, *MNRAS*, 370, 1859
94. Alon Retter, **Bing Zhang**, Lionel Siess, Amir Levinson, "The planets capture model of V838 Monocerotis: conclusions for the penetration depth of the planet(s)", 2006, *MNRAS*, 370, 1573
93. V. La Parola, V. Mangano, D. Fox, **B. Zhang**, H.A. Krimm, G. Cusumano, T. Mineo, D. Burrows, S. Barthelmy, S. Campana, M. Capalbi, G. Chincarini, N. Gehrels, P. Giommi, F.E. Marshall, P. Mészáros, A. Moretti, P.T. O'Brien, D.M. Palmer, M. Perri, P. Romano, G. Tagliaferri, "GRB051210: Swift detection of a short gamma ray burst", 2006, *A&A*, 454, 753
92. Daniel Proga, **Bing Zhang**, "The late time evolution of Gamma-Ray Bursts: ending hyperaccretion and producing flares", 2006, *MNRAS*, 370, L61
91. E. W. Liang, **B. Zhang**, P. T. O'Brien, R. Willingale, L. Angelini, D. N. Burrows, S. Campana, G. Chincarini, A. Falcone, N. Gehrels, M. R. Goad, D. Grupe, S. Kobayashi, P. Mszros, J. A. Nousek, J. P. Osborne, K. L. Page, G. Tagliaferri, "Testing the curvature effect and internal origin of Gamma-ray burst prompt emissions and X-ray flares with Swift data", 2006, *ApJ*, 646, 351
90. Dirk Grupe, Peter J. Brown, Jay Cummings, **Bing Zhang**, Alon Retter, David N. Burrows, Patricia T. Boyd, Neil Gehrels, Stephen T. Holland, Peter Mészáros, John A. Nousek, Jamie A. Kennea, Paul O'Brien, Julian Osborne, Claudio Pagani, Judith L. Racusin, Peter Roming, Patricia Schady, "Swift observations of GRB 050603: an afterglow with a steep late time decay", 2006, *ApJ*, 645, 464
89. S. Campana, G. Tagliaferri, D. Lazzati, G. Chincarini, S. Covino, K. Page, P. Romano, A. Moretti, G. Cusumano, V. Mangano, T. Mineo, V. La Parola, P. Giommi, M. Perri, M. Capalbi, **B. Zhang**, S. Barthelmy, J. Cummings, T. Sakamoto, D. N. Burrows, J. A. Kennea, J. A. Nousek, J. P. Osborne, P. T. O'Brien, O. Godet, N. Gehrels, "The X-ray afterglow of the short gamma ray burst 050724", 2006, *A&A*, 454, 113
88. Enwei Liang & **Bing Zhang**, "Calibration of Gamma-Ray Burst Luminosity Indicators", 2006, *MNRAS*, 369, L37
87. O. Godet, K. L. Page, J. P. Osborne, P. T. O'Brien, D. N. Burrows, J. E. Hill, **B. Zhang**, A. P. Beardmore, L. Angelini, M. Capalbi, J. Cummings, N. Gehrels, M. R. Goad, J. A. Kennea, V. Mangano, A. Moretti, D. C. Morris, "X-ray flares in the early Swift observations of the possible naked gamma-ray burst 050421", 2006, *A&A*, 452, 819
86. C. P. Hurkett, J. P. Osborne, K.L. Page, E. Rol, M.R. Goad, P.T. O'Brien, A. Beardmore, O. Godet, D. N. Burrows, N. R. Tanvir, A. Levan, **B. Zhang**, D. Malesani, J. E. Hill, J.

- A. Kennea, R. Chapman, V. La Parola, M. Perri, P. Romano, R. Smith, N. Gehrels, “GRB 050505: A high redshift burst discovered by Swift”, 2006, MNRAS, 368, 1101
85. P. Schady, K. O. Mason, J. P. Osborne, M. J. Page, P. W. A. Roming, M. Still, **B. Zhang**, A. J. Blustin, P. Boyd, A. Cucchiara, N. Gehrels, C. Gronwall, M. De Pasquale, S. T. Holland, F. E. Marshall, K. E. McGowan, J. A. Nousek, “Swift-UVOT Observations of the X-Ray Flash 050406”, 2006, ApJ, 643, 276
84. **Bing Zhang**, Yi Zhong Fan, Jaroslaw Dyks, Shiho Kobayashi, Peter Mészáros, David N. Burrows, John A. Nousek & Neil Gehrels, “Physical processes shaping GRB X-ray afterglow lightcurves: theoretical implications from the Swift XRT observations”, 2006, ApJ, 642, 354
83. A. D. Falcone, D. N. Burrows, D. Lazzati, S. Campana, S. Kobayashi, **B. Zhang**, P. Mészáros, K. L. Page, J. A. Kennea, P. Romano, C. Pagani, L. Angelini, A. P. Beardmore, M. Capalbi, G. Chincarini, G. Cusumano, P. Giommi, M. R. Goad, O. Godet, D. Grupe, J. E. Hill, V. La Parola, V. Mangano, A. Moretti, J. A. Nousek, P. T. O’Brien, J. P. Osborne, M. Perri, G. Tagliaferri, A. A. Wells, N. Gehrels, “The giant X-ray flare of GRB 050502B: evidence for late-time internal engine activity”, 2006, ApJ, 641, 1010
82. A. Moretti, A. De Luca, D. Malesani, S. Campana, A. Tiengo, A. Cucchiara, J. N. Reeves, G. Chincarini, C. Pagani, P. Romano, G. Tagliaferri, P. Banat, M. Perri, G. Cusumano, V. Mangano, T. Mineo, V. La Parola, A. Beardmore, M. Goad, J. P. Osborne, J. E. Hill, L. Angelini, D. N. Burrows, S. Kobayashi, P. Mészáros, **B. Zhang**, S. D. Barthelmy, L. Barbier, N. E. White, E. E. Fenimore, L. R. Cominsky, N. Gehrels, “Swift and XMM observations of the dark GRB 050326”, 2006, A&A, 451, 777
81. P. Romano, A. Moretti, P. L. Banat, D.N. Burrows, S. Campana, G. Chincarini, S. Covino, D. Malesani, G. Tagliaferri, S. Kobayashi, **B. Zhang**, A.D. Falcone, L. Angelini, S. Barthelmy, A. P. Beardmore, M. Capalbi, G. Cusumano, P. Giommi, M.R. Goad, O. Godet, D. Grupe, J. E. Hill, J. A. Kennea, V. La Parola, V. Mangano, P. Mészáros, D. C. Morris, J. A. Nousek, P. T. O’Brien, J. P. Osborne, A. Parsons, M. Perri, C. Pagani, K. L. Page, A. A. Wells, N. Gehrels, “X-ray flare in XRF 050406: evidence for prolonged engine activity”, 2006, A&A, 450, 59
80. M. R. Goad, G. Tagliaferri, K. L. Page, A. Moretti, J. P. Osborne, S. Kobayashi, P. Kumar, P. I. Mészáros, G. Chincarini, T. Sakamoto, **B. Zhang**, S. D. Barthelmy, A. P. Beardmore, D. N. Burrows, S. Campana, M. Capalbi, L. Cominsky, G. Cusumano, N. Gehrels, P. Giommi, O. Godet, J. E. Hill, J. A. Kennea, H. Krimm, V. La Parola, V. Mangano, T. Mineo, D. C. Morris, K. Mukerjee, J. A. Nousek, P. T. O’Brien, C. Pagani, M. Perri, P. Romano, A. A. Wells, “Swift observations of the prompt X-ray emission and afterglow from GRB050126 & GRB050219A”, 2006, A&A, 449, 89
79. G. Cusumano, V. Mangano, G. Chincarini, A. Panaitescu, D. N. Burrows, V. La Parola, T. Sakamoto, S. Campana, T. Mineo, G. Tagliaferri, L. Angelini, S. D. Barthelmy, A. P. Beardmore, P. T. Boyd, L. Cominsky, C. Gronwall, E. E. Fenimore, N. Gehrels, P. Giommi, M. Goad, K. Hurley, J. A. Kennea, K. O. Mason, F. Marshall, P. Mészáros, J. A. Nousek, J. P. Osborne, D. M. Palmer, P. W. A. Roming, A. Wells, N. E. White, **B. Zhang**, “Detection of a huge explosion in the early universe”, 2006, Nature, 440, 164
78. Z. G. Dai, X. Y. Wang, X. F. Wu, **B. Zhang**, “X-ray flares from postmerger millisecond pulsars”, 2006, Science, 311, 1127
77. Giancarlo Cusumano, Vanessa Mangano, Lorella Angelini, Scott Barthelmy, Andrew P. Beardmore, David N. Burrows, Sergio Campana, John K. Cannizzo, Milvia Capalbi, Guido

- Chincarini, Neil Gehrels, Paolo Giommi, Michael R. Goad, Joanne E. Hill, Jamie A. Kennea, Shiho Kobayashi, Valentina La Parola, Daniele Malesani, Peter Mészáros, Teresa Mineo, Alberto Moretti, John A. Nousek, Paul T. O’Brien, Julian P. Osborne, Claudio Pagani, Kim L. Page, Matteo Perri, Parizia Romano, Gianpiero Tagliaferri, **Bing Zhang**, “Swift XRT Observations of the Afterglow of GRB 050319”, 2006, *ApJ*, 639, 316
76. K. O. Mason, A. J. Blustin, P. Boyd, S. T. Holland, M. J. Page, P. Roming, M. Still, **B. Zhang**, A. Breeveld, M. De Pasquale, N. Gehrels, C. Gronwall, S. Hunsberger, M. Ivanushkina, W. Landsman, K. McGowan, J. Nousek, T. Poole, J. Rhoads, S. Rosen, P. Schady, “Prompt optical observations of GRB050319 with the Swift UVOT”, 2006, *ApJ*, 639, 311
75. Joanne E. Hill, David C. Morris, Takanori Sakamoto, Goro Sato, David N. Burrows, Lorella Angelini, Claudio Pagani, Alberto Moretti, Antony F. Abbey, Scott Barthelmy, Andrew P. Beardmore, Vadim V. Biryukov, Sergio Campana, Milvia Capalbi, Giancarlo Cusumano, Paolo Giommi, Mansur A. Ibrahimov, Jamie Kennea, Shiho Kobayashi, Kunihito Ioka, Craig Markwardt, Peter Mészáros, Paul T. O’Brien, Alexei S. Pozanenko, Matteo Perri, Vasilij V. Rumyantsev, Patricia Shady, Dmitri A. Sharapov, Gianpiero Tagliaferri, **Bing Zhang**, Guido Chincarini, Neil Gehrels, Alan Wells, John A. Nousek, “GRB 050117: simultaneous Gamma-ray and X-ray observations with the Swift satellite”, 2006, *ApJ*, 639, 303
74. S. Vaughan, M. R. Goad, A. P. Beardmore, P. T. O’Brien, J. P. Osborne, K. L. Page, S. D. Barthelmy, D. N. Burrows, S. Campana, J. K. Cannizzo, M. Capalbi, G. Chincarini, J. R. Cummings, G. Cusumano, P. Giommi, O. Godet, J. E. Hill, S. Kobayashi, P. Kumar, V. La Parola, A. Levan, V. Mangano, P. Mészáros, A. Moretti, D. C. Morris, J. A. Nousek, C. Pagani, D. M. Palmer, J. L. Racusin, P. Romano, G. Tagliaferri, **B. Zhang**, N. Gehrels, “Swift observations of the X-ray bright GRB 050315”, 2006, *ApJ*, 638, 920
73. Enwei Liang & **Bing Zhang**, “Identification of two categories of optically bright gamma-ray bursts”, 2006, *ApJ*, 638, L67
72. A. J. Blustin, D. Band, S. Barthelmy, P. Boyd, M. Capalbi, S. T. Holland, F. E. Marshall, K. O. Mason, M. Perri, T. Poole, P. Roming, S. Rosen, P. Schady, M. Still, **B. Zhang**, L. Angelini, L. Barbier, A. Beardmore, A. Breeveld, D. N. Burrows, J. R. Cummings, J. Canizzo, S. Campana, M. M. Chester, G. Chincarini, L. R. Cominsky, A. Cucchiara, M. de Pasquale, E. E. Fenimore, N. Gehrels, P. Giommi, M. Goad, C. Gronwall, D. Grupe, J. E. Hill, D. Hinshaw, S. Hunsberger, K. C. Hurley, M. Ivanushkina, J. A. Kennea, H. A. Krimm, P. Kumar, W. Landsman, V. La Parola, C. B. Markwardt, K. McGowan, P. Mészáros, T. Mineo, A. Moretti, A. Morgan, J. Nousek, P. T. O’Brien, J. P. Osborne, K. Page, M. J. Page, D. M. Palmer, A. M. Parsons, J. Rhoads, P. Romano, T. Sakamoto, G. Sato, G. Tagliaferri, J. Tueller, A. A. Wells & N. E. White, “Swift panchromatic observations of the bright gamma-ray burst GRB050525a”, 2006, *ApJ*, 637, 901
71. Rosalba Perna, Phillip J. Armitage & **Bing Zhang**, “Flares in long and short gamma-ray bursts: a common origin in a hyperaccreting accretion disk”, 2006, *ApJ*, 636, L29
70. Massimiliano De Pasquale, Andy P. Beardmore, S.D. Barthelmy, P. Boyd, D.N. Burrows, R. Fink, N. Geherls, S. Kobayashi, K.O. Mason, R. McNought, J.A. Nousek, K.L. Page, D.M. Palmer, B.A. Peterson, P.A. Price, J. Rich, P. Roming, S.R. Rosen, T. Sakamoto, B.P. Schimdt, J. Tueller, A.A. Wells, S. Zane, **B. Zhang**, H. Ziaepour, “Swift and optical observations of GRB 050401”, 2006, *MNRAS*, 365, 1031
69. M. Still, P.W.A. Roming, K.O. Mason, A. Blustin, P. Boyd, A. Breeveld, P. Brown, M. De

- Pasquale, C. Gronwall, S.T. Holland, S. Hunsberger, M. Ivanushkina, C. James, W. Landsman, K. McGowan, A. Morgan, T. Poole, S. Rosen, P. Schady, **B. Zhang**, H. Krimm, T. Sakamoto, P. Giommi, M.R. Goad, V. Mangano, K. Page, M. Perri, D.N. Burrows, N. Gehrels, J. Nousek, “Swift-UVOT detection of GRB 050318”, 2005, *ApJ*, 635, 1187
68. Y. Z. Fan, **Bing Zhang** & Daniel Proga, “Linearly polarized X-ray flares following short gamma-ray bursts”, 2005, *ApJ*, 635, L129
67. S. D. Barthelmy, J. K. Cannizzo, N. Gehrels, G. Cusumano, V. Mangano, P. T. O’Brien, S. Vaughan, **B. Zhang**, D. N. Burrows, S. Campana, G. Chincarini, M. R. Goad, C. Kouveliotou, P. Kumar, P. Mészáros, J. A. Nousek, J. P. Osborne, A. Panaitescu, J. N. Reeves, T. Sakamoto, G. Tagliaferri & R. A. M. J. Wijers, “Discovery of an afterglow extension of the prompt phase for two gamma-ray bursts observed by Swift”, 2005, *ApJ*, 635, L133
66. S. D. Barthelmy, G. Chincarini, D. N. Burrows, N. Gehrels, S. Covino, A. Moretti, P. Romano, P. T. O’Brien, C. L. Sarazin, C. Kouveliotou, M. Goad, S. Vaughan, G. Tagliaferri, **B. Zhang**, A. Antonelli, S. Campana, P. D’Avanzo, M. Davies, P. Giommi, Y. Kaneko, J. A. Kennea, A. King, S. Kobayashi, A. Melandri, P. Mészáros, J. A. Nousek, S. Patel, T. Sakamoto & R. A. M. J. Wijers, “An origin for short gamma-ray bursts unassociated with current star formation”, 2005, *Nature*, 438, 994
65. Enwei Liang & **Bing Zhang**, “Model-Independent Multi-Variable Gamma-Ray Burst Luminosity Indicator and Its Possible Cosmological Implications”, 2005, *ApJ*, 633, 611
64. J. Dyks, M. Frackowiak, Agnieszka Slowikowska, B. Rudak & **Bing Zhang**, “Pulsar shadow as the origin of double notches in radio pulse profiles”, 2005, *ApJ*, 633, 1101
63. N. Gehrels, C. L. Sarazin, P. T. O’Brien, **B. Zhang**, L. Barbier, S. D. Barthelmy, A. Blustin, D. N. Burrows, J. Cannizzo, J. R. Cummings, M. Goad, S. T. Holland, C. P. Hurkett, J. A. Kennea, A. Levan, C. B. Markwardt, K. O. Mason, P. Mészáros, M. Page, D. M. Palmer, E. Rol, T. Sakamoto, R. Willingale, L. Angelini, A. Beardmore, P. T. Boyd, A. Breeveld, S. Campana, M. M. Chester, G. Chincarini, L. R. Cominsky, G. Cusumano, M. de Pasquale, E. E. Fenimore, P. Giommi, C. Gronwall, D. Grupe, J. E. Hill, D. Hinshaw, J. Hjorth, D. Hullinger, K. C. Hurley, S. Klose, S. Kobayashi, C. Kouveliotou, H. A. Krimm, V. Mangano, F. E. Marshall, K. McGowan, A. Moretti, R. F. Mushotzky, K. Nakazawa, J. P. Norris, J. A. Nousek, J. P. Osborne, K. Page, A. M. Parsons, S. Patel, M. Perri, T. Poole, P. Romano, P. W. A. Roming, S. Rosen, G. Sato, P. Schady, A. P. Smale, J. Sollerman, R. Starling, M. Still, M. Suzuki, G. Tagliaferri, T. Takahashi, M. Tashiro, J. Tueller, A. A. Wells, N. E. White & R. A. M. J. Wijers, “A short gamma-ray burst apparently associated with an elliptical galaxy at redshift  $z=0.225$ ”, 2005, *Nature*, 437, 851
62. **Bing Zhang** & Janusz Gil, “GCRT J1745-3009 as a transient white dwarf pulsar”, 2005, *ApJ*, 631, L143
61. K. L. Page, E. Rol, A. J. Levan, **B. Zhang**, J. P. Osborne, P. T. O’Brien, A. P. Beardmore, D. N. Burrows, S. Campana, G. Chincarini, J. R. Cummings, G. Cusumano, N. Gehrels, P. Giommi, M. R. Goad, O. Godet, V. Mangano, G. Tagliaferri & A. A. Wells, “GRB050223: a faint gamma-ray burst discovered by Swift”, 2005, *MNRAS*, 363, L76
60. D. N. Burrows, P. Romano, A. Falcone, S. Kobayashi, **B. Zhang**, A. Morretti, P. T. O’Brien, M. R. Goad, S. Campana, K. L. Page, L. Angelini, S. Barthelmy, A. P. Beardmore, M. Capalbi, G. Chincarini, J. Cummings, G. Cusumano, D. Fox, P. Giommi, J. E. Hill, J. A. Kennea, H. Krimm, V. Mangano, F. Marshall, P. Mészáros, D. C. Morris,

- J. A. Nousek, J. P. Osborne, C. Pagani, M. Perri, G. Tagliaferri, A. A. Wells, S. Woosley & N. Gehrels, “Bright X-ray flares in XRF 050406 and GRB 050502B provide evidence for extended central engine activity”, 2005, *Science*, 309, 1833
59. Kunihito Ioka, Shiho Kobayashi & **Bing Zhang**, “Variabilities of gamma-ray burst afterglows: long-acting engine, anisotropic jet, or many fluctuating regions?”, 2005, *ApJ*, 631, 429
  58. G. Tagliaferri, M. Goad, G. Chincarini, A. Moretti, S. Campana, D. N. Burrows, M. Perri, S. D. Barthelmy, N. Gehrels, H. Krimm, T. Sakamoto, P. Kumar, P. Mészáros, S. Kobayashi, **B. Zhang**, L. Angelini, P. Banat, A. P. Beardmore, M. Capalbi, S. Covino, G. Cusumano, P. Giommi, O. Godet, J. E. Hill, J. A. Kennea, V. Mangano, D. C. Morris, J. A. Nousek, P. T. O’Brien, J. P. Osborne, C. Pagani, K. L. Page, P. Romano, L. Stella & A. Wells, “An unexpectedly rapid decline in the X-ray afterglow emission of long gamma-ray bursts”, 2005, *Nature*, 436, 985
  57. Z. G. Dai, X. F. Wu, X. Y. Wang, Y. F. Huang & **B. Zhang**, “A two component explosion model for the giant flare and radio afterglow from SGR 1806-20”, 2005, *ApJ*, 629, L81
  56. Y. Z. Fan, **Bing Zhang** & D. M. Wei, “Early photon-shock interaction in stellar wind: sub-GeV photon flash and high energy neutrino emission from long GRBs”, 2005, *ApJ*, 629, 334
  55. Y. Z. Fan, **Bing Zhang**, Shiho Kobayashi & Peter Mészáros, “Optical afterglows of short Gamma-ray Bursts and GRB 040924”, 2005, *ApJ*, 628, 867
  54. Y. Z. Fan, **Bing Zhang** & D. M. Wei, “High Energy Afterglow Emission from Giant Flares of Soft Gamma-Ray Repeaters: The Case of the 2004 December 27 Event from SGR 1806-20”, 2005, *MNRAS*, 361, 965
  53. Y. Z. Fan, **Bing Zhang** & D. M. Wei, “Early optical-IR emission from GRB 041219a: neutron-rich internal shocks and a mildly magnetized external reverse shock”, 2005, *ApJ*, 628, L25
  52. Y. Z. Fan, **Bing Zhang** & D. M. Wei, “Early optical afterglow lightcurves of neutron-fed gamma-ray bursts”, 2005, *ApJ*, 628, 298
  51. **Bing Zhang** & Shiho Kobayashi, “Gamma-ray burst early afterglows: reverse shock emission from an arbitrarily magnetized ejecta”, 2005, *ApJ*, 628, 315
  50. J. Dyks, **Bing Zhang** & J. Gil, “Reversals of radio emission direction in PSR B1822-09”, 2005, *ApJ*, 626, L45
  49. S. Campana, L. A. Antonelli, G. Chincarini, S. Covino, G. Cusumano, D. Malesani, V. Mangano, A. Moretti, C. Pagani, P. Romani, G. Tagliaferri, M. Capalbi, M. Perri, P. Giommi, L. Angelini, P. Boyd, D. N. Burrows, J. E. Hill, C. Gronwall, J. A. Kennea, S. Kobayashi, P. Kumar, P. Mészáros, J. A. Nousek, P. W. A. Roming, **B. Zhang**, A. F. Abbey, A. P. Beardmore, A. Breeveld, M. R. Goad, O. Godet, K. O. Mason, J. P. Osborne, K. L. Page, T. Poole, N. Gehrels, “Swift observations of GRB 0501278: the early X-ray afterglow”, 2005, *ApJ*, 625, L23
  48. **Bing Zhang**, Divas Sanwal & George G. Pavlov, “XMM-Newton observation of the drifting pulsar B0943+10”, 2005, *ApJ*, 624, L109
  47. X. Y. Wang, X. F. Wu, Y. Z. Fan, Z. G. Dai & **B. Zhang**, “An energetic blast wave from the December 27 giant flare of the soft gamma-ray repeater 1806-20”, 2005, *ApJ*, 623, L29
  46. D. N. Burrows, J. E. Hill, G. Chincarini, G. Tagliaferri, S. Campana, A. Moretti, P. Romano, D. Malesani, J. L. Racusin, S. Kobayashi, **B. Zhang**, P. Mészáros, P. T. O’Brien, R. Willingale, J. P. Osborne, G. Cusumano, P. Giommi, L. Angelini, A. F.

- Abbey, L. A. Antonelli, A. P. Beardmore, M. Capalbi, S. Covino, P. D’Avanzo, M. R. Goad, J. A. Kennea, D. C. Morris, C. Pagani, K. L. Page, L. Stella, J. A. Nousek, A. A. Wells, N. Gehrels, “Swift XRT and VLT observations of the afterglow of GRB 041223”, 2005, *ApJ*, 622, L85
45. Xinyu Dai & **Bing Zhang**, “Global Test of a Quasi-Universal Gamma-Ray Burst Jet Model Through Monte-Carlo Simulations”, 2005, *ApJ*, 621, 875
  44. G. J. Qiao, K. J. Lee, **B. Zhang**, R. X. Xu & H. G. Wang, “A model for the challenging ‘bi-drifting’ phenomenon in PSR J0815+09”, 2004, *ApJ*, 616, L127
  43. **Bing Zhang** & Abraham Loeb, “A model for the flaring radio emission in the double pulsar system J0737-3039”, 2004, *ApJ*, 614, L53
  42. Soebur Razzaque, Peter Mészáros & **Bing Zhang**, “GeV and higher energy photon interactions in gamma-ray burst fireballs and surroundings”, 2004, *ApJ*, 613, 1072
  41. Nicole M. Lloyd-Ronning & **Bing Zhang**, “On the kinetic energy and radiative efficiency of gamma-ray bursts”, 2004, *ApJ*, 613, 477
  40. Y. Z. Fan, D. M. Wei & **Bing Zhang**, “Gamma-ray burst internal shocks with mild magnetization”, 2004, *MNRAS*, 345, 1031
  39. **Bing Zhang** & Peter Mészáros, “Gamma-ray bursts: progress, problems & prospects”, 2004, *Int. J. Mod. Phys. A*, 19, 2385
  38. **Bing Zhang**, Xinyu Dai, Nicole Lloyd-Ronning & Peter Mészáros, “Quasi-universal structured jets: a unified picture for gamma-ray bursts and X-ray flashes”, 2004, *ApJ Letters*, 601, L119
  37. L. J. Gou, P. Mészáros, T. Abel & **B. Zhang**, “Detectability of long GRB afterglows from very high redshifts”, 2004, *ApJ*, 604, 508
  36. Shiho Kobayashi, Peter Mészáros & **Bing Zhang**, “A characteristic wind signature in prompt GRB afterglows”, 2004, *ApJ*, 601, L13
  35. Nicole Lloyd-Ronning, Xinyu Dai & **Bing Zhang**, “On the structure of quasi-universal jets for gamma-ray bursts”, 2004, *ApJ*, 601, 371
  34. Shiho Kobayashi & **Bing Zhang**, “Early optical afterglows from wind-type gamma-ray bursts”, 2003, *ApJ*, 597, 455
  33. **Bing Zhang** & Steinn Sigurdsson, “Electromagnetic signals from planetary collisions”, 2003, *ApJ*, 596, L95
  32. **Bing Zhang**, Shiho Kobayashi, & Peter Mészáros, “Gamma-ray burst early optical afterglow: implications for the initial Lorentz factor and the central engine”, 2003, *ApJ*, 595, 950
  31. **Bing Zhang**, Z. G. Dai, P. Mészáros, E. Waxman & A. K. Harding, “High energy neutrinos from magnetars”, 2003, *ApJ*, 595, 346
  30. B. E. Schaefer, C. L. Gerardy, P. Hoflich, A. Panaitescu, R. Quimby, J. Mader, G. J. Hill, P. Kumar, J. C. Wheeler, M. Eracleous, S. Sigurdsson, P. Mészáros, **B. Zhang**, L. Wang, F. Hessman, V. Petrosian, “GRB 021004: a Massive Progenitor Star Surrounded by Shells”, 2003, *ApJ*, 588, 387
  29. Shiho Kobayashi & **Bing Zhang**, “GRB 021004: reverse shock emission”, 2003, *ApJ*, 582, L75
  28. **Bing Zhang**, & Peter Mészáros, “An analysis of gamma-ray burst spectral break models”, 2002, *ApJ*, 581, 1236
  27. Z. G. Dai, **B. Zhang**, L. J. Gou, P. Mészáros, & E. Waxman, “GeV emission from TeV blazars and intergalactic magnetic fields”, 2002, *ApJ*, 580, L7

26. P. Mészáros, E. Ramirez-Ruiz, M. J. Rees, & **B. Zhang**, “X-ray Rich GRB, Photospheres and Variability”, 2002, *ApJ*, 578, 812
25. Alice K. Harding, Alexander G. Muslimov, & **Bing Zhang**, “Regimes of pulsar pair formation and particle energetics”, 2002, *ApJ*, 576, 366
24. **Bing Zhang** & Peter Mészáros, “Gamma-ray bursts beaming: a universal configuration with a standard energy reservoir?”, 2002, *ApJ*, 571, 876
23. **Bing Zhang** & Peter Mészáros, “Gamma-ray bursts with continuous energy injection and their afterglow signature”, 2002, *ApJ*, 566, 712
22. **Bing Zhang**, “On the radio quiescence of anomalous X-ray pulsars and soft Gamma-ray repeaters”, 2001, *ApJ*, 562, L59
21. G.J. Qiao, J.F. Liu, **B. Zhang**, & J.L. Han, 2001, “An inverse Compton scattering model of pulsar emission: II. frequency behavior of pulse profiles”, 2001, *A&A*, 377, 964
20. **Bing Zhang** & Peter Mészáros, “High energy spectral components in Gamma-ray burst afterglows”, 2001, *ApJ*, 559, 110
19. **Bing Zhang** & Peter Mészáros, “Gamma-ray burst afterglow with continuous energy injection: signature of a highly-magnetized millisecond pulsar”, 2001, *ApJ*, 552, L35
18. Alice K. Harding & **Bing Zhang**, “Off-beam gamma-ray pulsars and unidentified EGRET sources in the Gould Belt”, 2001, *ApJ*, 548, L37
17. R. X. Xu, **B. Zhang** & G. J. Qiao, “What if pulsars are born as strange stars?”, 2001, *AstroParticle Physics*, 15, 101
16. **Bing Zhang**, R. X. Xu, & G. J. Qiao, “Nature and Nurture: a model for soft gamma-ray repeaters”, 2000, *ApJ*, 545, L127
15. **Bing Zhang**, & Alice K. Harding, 2000, “A unified picture of high magnetic field pulsars and magnetars”, 2000, *ApJ*, 535, L51
14. **Bing Zhang**, Alice K. Harding, & Alexander G. Muslimov, “Radio pulsar death line revisited: is PSR J2144-3933 anomalous?”, 2000, *ApJ*, 531, L135
13. **Bing Zhang**, & Alice K. Harding, “Full polar cap cascade scenario:  $\gamma$ -ray and X-ray luminosities from spin-powered pulsars”, 2000, *ApJ*, 532, 1150
12. R.X. Xu, G.J. Qiao, & **Bing Zhang**, “PSR 0943+10: a bare strange star?”, 1999, *ApJ*, 522, L109
11. **Bing Zhang**, B.H. Hong, & G.J. Qiao, “Is coherence essential to account for pulsar radio emission?”, 1999, *ApJ*, 514, L111
10. **Bing Zhang**, & G.J. Qiao, “Two-photon annihilation in the pair formation cascades in pulsar polar caps”, 1998, *A&A*, 338, 62
09. Zheng Zheng, **Bing Zhang**, & G.J. Qiao, “Is  $\gamma$ -ray absorption by induced electric fields important in pulsar magnetospheres?”, 1998, *A&A*, 334, L49
08. **Bing Zhang**, G.J. Qiao, & J.L. Han, “Searching and confirming black holes: (1) current status” (in Chinese), 1998, *Progress of astronomy*, 16(4), 260
07. **Bing Zhang**, G.J. Qiao, & J.L. Han, “Searching and confirming black holes: (2) pulsar black hole (PSR-BH) binary systems” (in Chinese), 1998, *Progress of astronomy*, 16(4), 274
06. **B. Zhang**, G.J. Qiao, & J.L. Han, “Inverse Compton scattering: gap parameters, energy loss of the particles, and possible implications for pulsar radio emission”, 1997, *ApJ*, 491, 891
05. **B. Zhang**, G.J. Qiao, W.P. Lin, & J.L. Han, “Three modes of pulsar inner gaps”, 1997, *ApJ*, 478, 313
04. **B. Zhang**, & G.J. Qiao, “A study on pulsar inner-gap sparking comparing inverse

- Compton scattering and curvature radiation processes”, 1996, A&A, 310, 135
03. G.J. Qiao, & **B. Zhang**, “Pulsar birth line, appearance line and death line”, 1996, A&A, 306, L5
  02. **Bing Zhang**, & G.J. Qiao, “Radio pulsars: observational data and their implications”, 1996, Progress in Astronomy, 14(4), 315
  01. **Bing Zhang**, & G.J. Qiao, “Theories of magnetosphere and radiation mechanisms of radio pulsars”, 1996, Progress in Astronomy, 14(4), 322

## 2. Conference Proceedings (partial list)

42. **Bing Zhang**, 2008, “Gamma-ray bursts: afterglow and prompt emission models”, In “2008 Nanjing GRB Conference”, AIP Conf. Proc. Series, in press
41. **Bing Zhang**, 2008, “Gamma-ray burst emission: from low energy to high energy”, In “Gamma-ray bursts 2007: Proceedings of the Santa Fe Conference”, AIP Conf. Proc. Series, 1000, 427-432
40. **Bing Zhang**, “Gamma-ray bursts: outstanding problems in the Swift era”, 2008, In “Astrophysics of Compact Objects: International Conference on Astrophysics of Compact Objects”, AIP Conf. Proc. Series, 968, 9-16
39. **Bing Zhang**, “High energy neutrinos from GRBs: predictions and issues”, 2007, to appear in Journal of Physics: Conference Series
38. **Bing Zhang**, Enwei Liang, Nayantara Gupta, Bin-Bin Zhang, Francisco Virgili and Z. G. Dai, “Messages from GRB 060218”, Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences, 365(1854), 1257-1262
37. **Bing Zhang**, “Gamma-Ray Burst Afterglows”, 2007, Advances in Space Research, 40(8), 1186-1198, Proceedings to 36th COSPAR
36. **Bing Zhang**, “Physical origin of X-ray flares following GRBs”, Gamma-Ray Bursts in the Swift Era, Sixteenth Maryland Astrophysics Conference, Nov. 29 - Dec. 2, 2005, Washington, DC. (eds. S.S. Holt, N. Gehrels, and J.A. Nousek) AIP Conf. Proc., V836., 392-397
35. Enwei Liang, **Bing Zhang**, “Identification of Two Categories of optically bright Gamma-Ray bursts and A Model-Independent Luminosity Indicator”, Gamma-Ray Bursts in the Swift Era, Sixteenth Maryland Astrophysics Conference, Nov. 29 - Dec. 2, 2005, Washington, DC. (eds. S.S. Holt, N. Gehrels, and J.A. Nousek) AIP Conf. Proc., V836., p.444-447
34. **Bing Zhang**, “Possible new clues towards understanding pulsar radio emission”, to appear in Prof. of The 2005 Lake Hanas International Pulsar Symposium, Urumqi, Xinjiang, China, ChJAA, in press
33. **Bing Zhang**, “Gamma-Ray Burst Early Afterglows”, in Proc. of “Astrophysics Sources of High Energy Particles and Radiation” (eds. T. Bulik, G. Madejski and B. Rudak), Torun, Poland, 20-24 June, 2005, AIP Conference Proceedings, V801, 106-113 (astro-ph/0509571)
32. Burrows, D. N., Romano, P., Godet, O., Falcone, A., Pagani, C., Cusumano, G., Campana, S., Chincarini, G., Hill, J. E., Giommi, P., Goad, M. R., Kennea, J. A., Kobayashi, S., Mészáros, P., Nousek, J. A., Osborne, J. P., O’Brien, P. T., Page, K. L., Tagliaferri, G., **Zhang, B.** The Swift XRT Team, in Proceedings of the “The X-ray Universe 2005”, 26-30 September 2005, El Escorial, Madrid, Spain. Organised by European Space Agency (ESA). Ed. by A. Wilson. ESA SP-604, V2, Noordwijk: ESA Publications Division, 2006, p.877
31. D. Q. Lamb, G. R. Ricker, D. Lazzati, G. Ghirlanda, G. Ghisellini, C. Firmani, L. Amati,

- J.-L. Atteia, V. Avila-Reese, S. Burles, N. Butler, H.-W. Chen, E. Costa, J. Doty, F. Frontera, A. Fruchter, P. Garnavich, C. Graziani, J. G. Jernigan, N. Kawai, P. Mazzali, P. Mészáros, L. Piro, T. Sakamoto, K. Stanek, M. Vietri, M. della Valle, J. Villasenor, **B. Zhang**, “A gamma-ray burst mission to investigate the properties of dark energy”, 2005, white paper submitted to the Dark Energy Task Force. (astro-ph/0507362)
30. **Bing Zhang**, 2003, “Spindown power of magnetars”, to appear in the Proc. of International Workshop on Strong Magnetic Fields and Neutron Stars, (eds. H. J. Mosquera Cuesta, H. Perez Rojas & C. Vasconcellos)
  29. **Bing Zhang**, “Gamma-ray burst jets: composition and configuration”, 2005, Int. J. Mod. Phys. A, 20, 3153-3155
  28. **Bing Zhang** & Steinn Sigurdsson, “Electromagnetic signals from planetary collisions”, in “The search for other words: 14th Annual Astrophysics Conference in Maryland”, (eds. S. S. Holt and D. Deming), AIP Conference Proc. V713, 309-312 (astro-ph/0312439)
  27. P. Mészáros, S. Razzaque & **B. Zhang**, 2004, “GeV-TeV emission from gamma-ray bursts”, New Astronomy Reviews, V48, 445-451
  26. P. Mészáros, S. Kobayashi, S. Razzaque & **B. Zhang**, 2004, “Gamma-ray bursts: an overview”, Baltic Astronomy, V13, 177-185
  25. P. Mészáros, S. Kobayashi, S. Razzaque & **B. Zhang**, 2004, “High energy neutrinos and gravitational waves from GRBs”, Baltic Astronomy, V13, 317-323
  24. Lijun Gou, P. Mészáros, Tom Abel, **Bing Zhang**, 2003, “Detectability of Long GRB Afterglows From Very High Redshifts”, in “Gamma-ray bursts: 30 years of Discovery: Gamma-ray burst symposium (eds. E. E. Fenimore and M. Galassi. 8-12 September, 2003, Santa Fe, NM, AIP Conference Proc. V727, 518-521
  23. **Bing Zhang**, Shiho Kobayashi, Peter Mészáros, Nicole M. Lloyd-Ronning and Xinyu Dai, 2003, “Early afterglow, magnetized central engine, and a quasi-universal structured jet model for long GRBs”, in “Gamma-ray bursts: 30 years of Discovery: Gamma-ray burst symposium (eds. E. E. Fenimore and M. Galassi. 8-12 September, 2003, Santa Fe, NM, AIP Conference Proc. V727, 208-212 (astro-ph/0312438)
  22. P. Mészáros, S. Kobayashi, S. Razzaque & **B. Zhang**, 2003, “Ultra-high energy gamma-rays, neutrinos, and gravitational waves from GRBs”, in “Gamma-ray bursts: 30 years of Discovery: Gamma-ray burst symposium (eds. E. E. Fenimore and M. Galassi. 8-12 September, 2003, Santa Fe, NM, AIP Conference Proc. V727, 125-130
  21. **Bing Zhang**, 2002, “Magnetars and pulsars: a missing link”, In: “Stellar astrophysics - a tribute to Helmut A. Abt”. Proc. of “The Sixth Pacific Rim Conference on Stellar Astrophysics (eds. K.S. Cheng, K.C. Leung & T.P. Li), 11-17 July, 2002, Xi’an, China, Astrophysics and Space Science Library, Vol. 298, Dordrecht: Kluwer Academic Publishers, ISBN 1-4020-1683-2, 2003, 27-34 (astro-ph/0212016)
  20. **Bing Zhang**, Peter Mészáros, & Junfeng Wang, “Some recent developments in “High energy processes and phenomena in astrophysics” (eds. Li, Wang & Trimble), Proc. of the 214th IAU Symposium, 6-10 August, 2002, Suzhou, China, p311 (astro-ph/0212015)
  19. **Bing Zhang**, 2002, “Radio pulsar death”, invited review to appear in Proc. of Sino-Gemany workshop on radio astronomy on galactic objects, galaxies, and AGNs (eds. Han & Willebinski), Aug. Xi’an, ChA&A, in press (astro-ph/0209160)
  18. **Bing Zhang** & Peter Mészáros, 2001, “GRB afterglows: two post-standard effect”, in “Gamma-ray burst and afterglow astronomy 2001”: a workshop celebrating the first year of the HETE mission. (eds. Ricker et al.), Nov. 5-9, Woods Hole, AIP Conference

Proceedings, V662, 331-334

17. **Bing Zhang** & Peter Mészáros, 2000, “Signature of a highly magnetized millisecond pulsar in GRB afterglows”, in “Gamma-ray bursts in the afterglow era”, Proc. of 2nd Rome GRB Workshop (eds. Enrico Costa, Filippo Frontera, and Jens Hjorth), Oct.17-20, 2000, Rome, Italy, 351
16. **Bing Zhang** & Peter Mészáros, 2001, “GeV and X-ray inverse Compton and proton synchrotron signatures in gamma-ray bursts afterglows”, in Gamma-ray Astrophysics 2001 (eds. Ritz, Gehrels, & Shrader), Apr.4-6, 2001, Baltimore, AIP Conference Proceedings, V587, 168
15. **Bing Zhang** & Peter Mészáros, 2001, “Continuously-fed fireballs and signatures in gamma-ray burst afterglows”, *ibid*, 195
14. **Bing Zhang**, 2000, “On the nature of soft gamma-ray repeaters”, in Proc. of ”Soft Gamma Repeaters: The Rome 2000 Mini-Workshop” (eds: M. Feroci and S. Mereghetti), Oct. 16, 2000, Rome - CNR Headquarters, Memorie Della Societa Astronomica Italiana, V73, 516-521 (astro-ph/0102098)
13. **Bing Zhang** & Alice K. Harding, 2000, “Inner magnetospheric accelerators in high magnetic field pulsars”, *ibid*, 584-589 (astro-ph/0102097)
12. **Bing Zhang** & Alice K. Harding, 2000, “Could the unidentified EGRET sources in the Gould Belt be of pulsar origin?”, in Proc. of International Symposium on High Energy Gamma-Ray Astronomy (eds. F. A. Aharonian and H. J. Völk), June 26-30, 2000, Heidelberg, Germany. American Institute of Physics (AIP) Proceedings, V558, 767
11. **Bing Zhang** & Alice K. Harding, 1999, ‘Gamma-ray and X-ray luminosities of spin-powered pulsars in full polar cap cascade model’, in: The Fifth Compton Symposium (eds. McConnell, M. L. & Ryan, J. M.), Sep.15-17, 1999, Portsmouth, AIP Conference Proceedings, V510, 272
10. **Bing Zhang** & Alice K. Harding, 1999, “A full polar cap cascade model: pulsar  $\gamma$ -ray and X-ray luminosities”, In: M. Kramer, N. Wex, & R. Wielebinski (eds.) “Pulsar astronomy - 2000 and beyond”, Proc. of IAU 177, Aug.30 - Sep.3, Bonn, Germany, ASP Conf. Ser. 202, 481
09. R.X. Xu, G.J. Qiao, & **Bing Zhang**, 1999, “Are radio pulsars bare strange stars?”, *ibid*, 665
08. R.X. Xu, G.J. Qiao, & **Bing Zhang**, 1999, “High energy accelerators above pulsar polar caps”, *ibid*, 479
07. G.J. Qiao, R.X. Xu, J.F. Liu, **B. Zhang**, & J.L. Han, 1999, “Recent developments of the inverse Compton scattering model of pulsar radio emission”, *ibid*, 405
06. B.H. Hong, G.J. Qiao, **B. Zhang**, J.L. Han, & R.X. Xu, 1999, “Possible re-acceleration regions above the inner gap and pulsar  $\gamma$ -ray emission”, *ibid*, 461
05. G.J. Qiao, **Bing Zhang**, R.X. Xu, & W.P. Lin, “An inverse Compton scattering model for radio pulsars”, 1998, Acta Scientiarum Naturalium Universitatis Pekinensis, 34(2-3), 181
04. **B. Zhang**, G.J. Qiao, & J.L. Han, 1998, “ICS in pulsar polar cap physics & an understanding of Geminga’s emission behavior”, in Proc. 1997 Pacific Rim Conference on Stellar Astrophysics (eds. Chan, Cheng & Singh), Aug. 1997, Hong Kong, ASP Conference Series V138, 385
03. **B. Zhang**, G.J. Qiao, W.P. Lin, & J.L. Han, 1997, “ICS and pulsar inner gap theory”, in Proc. of the 21st Century Chinese Astronomy Conference (eds. Cheng & Chan), Aug.1-4, 1996, Hong Kong, World Scientific, 293

02. G.J. Qiao, J.L. Han, & **B. Zhang**, 1997, “Searching for black holes”, *ibid*, 305
01. **B. Zhang**, G.J. Qiao, W.P. Lin, & J.L. Han, 1996, “An explanation of mode changing phenomenon of pulsar”, In: “Pulsars: Problems & Progress”, Proc. IAU 160 (eds. Johnston, Walker, & Bailes), Jan. 1996, Sidney, 225

### 3. Conference Talks/Seminars/Colloquia/Lectures

103. Invited conference review talk, “Physics of Gamma-Ray Bursts”, in “XII Mexican Workshop on Particles and Fields”, Mazatlan, Mexico, Nov. 13, 2009 [INVITED]
102. Conference talk, “Constraining GRB composition with Fermi data”, Nov. 4, 2009
101. Invited conference talk, “Recent progress in GRB theory”, in “High energy phenomena in relativistic outflow II”, Buenos Aires, Argentina, Oct. 30, 2009 [INVITED]
100. Invited conference talk, “Acceleration of particles in gamma-ray bursts”, in “Nonlinear processes in astrophysical plasmas: particle acceleration, magnetic field amplification, and radiation signatures”, Kavli Institute for Theoretical Physics, Santa Barbara, CA, Sep. 29, 2009 [INVITED]
99. Conference talk, “Gamma-ray burst prompt emission models: from low sigma to high sigma”, in “The Shocking Universe”, S. Servolo, Italy, Sep. 17, 2009 [INVITED]
98. Lecture Series IV, “GRB diversity & classification”, KIAA GRB Physics program, Beijing, Jun. 2, 2009
97. Lecture Series III, “GRB prompt emission”, KIAA GRB Physics program, Beijing, Jun. 1, 2009
96. Lecture Series II, “GRB afterglows”, KIAA GRB Physics program, Beijing, May 29, 2009
95. Lecture Series I, “Gamma-ray bursts: an overview”, KIAA GRB Physics program, Beijing, May 28, 2009
94. Invited conference talk, “GRB central engine and compact star connection”, CSQCD II, KIAA-PKU, Beijing, May 20, 2009
93. General Lecture, “Gamma-ray bursts: the most violent explosions in the universe”, UNLV, Apr. 15, 2009
92. Invited conference talk, “Short GRBs and ‘Short’ GRBs: where theory and observation meet”, in “Frontiers of Space Astrophysics: Gamma-Ray Bursts & Neutron Stars”, Alexandria, Egypt, Apr. 3, 2009 [INVITED]
91. Invited general lecture, “Physics of gamma-ray bursts”, in “Frontiers of Space Astrophysics: Gamma-Ray Bursts & Neutron Stars”, Alexandria, Egypt, Apr. 2, 2009 [INVITED]
90. Seminar, “Gamma-ray bursts: what, where and how?” Rice University, Houston, Texas, Mar. 18, 2009 [INVITED]
89. Invited conference talk, “GRB 080913 at  $z = 6.7$  and a physical classification scheme of gamma-ray bursts”, SnowPAC 2009, Snowbird, Utah, Feb. 6, 2009 [INVITED]
88. Conference talk, “GRB prompt emission: site and mechanism”, in Sixth Gamma-Ray Burst Symposium, Huntsville, Alabama, Oct. 23, 2009
87. Solicited conference talk, “GRB afterglow and prompt emission theory”, in 37th COSPAR meeting, Montreal, Canada, Jul. 15, 2008 [INVITED]
86. Invited conference talk, “Probes of reionization: GRB-host-DLAs”, in “JANUS Kickoff Meeting”, State College, PA, Jul. 10, 2008 [INVITED]
85. Conference review talk, “Gamma-ray burst afterglow models”, in “2008 Nanjing GRB Conference”, Nanjing, China, Jun. 24, 2008

84. Invited conference review talk, “Gamma-ray burst emission: from low energy to high energy”, in “Gamma Ray Bursts 2007”, Santa Fe, NM, Nov. 7, 2007 [INVITED]
83. Invited conference talk, “Gamma-ray burst supernova association and JANUS science”, JANUS Kick-Off Meeting, Penn State University, State College, PA, Oct. 24, 2007 [INVITED]
82. Invited conference talk, “Gamma-ray burst polarization”, First POET Team Meeting, NASA, GSFC, MD, Aug. 9, 2007 [INVITED]
81. Colloquium, “Gamma-ray bursts in the Swift era”, National Astronomical Observatory of China, Beijing, China, Jul. 13, 2007 [INVITED]
80. Seminar, “Gamma-ray bursts in the Swift era”, Nanjing University, China, Jul. 6, 2007 [INVITED]
79. Conference invited talk, “Gamma-ray bursts: outstanding problems in the Swift era”, in “Astrophysics of Compact Objects”, Huangshan, China, Jul. 2, 2007 [INVITED]
78. ITC seminar, “Gamma-ray bursts in the Swift era”, Institute for Theory and Computation (ITC), Harvard-Smithsonian Center for Astrophysics (CfA) Jun. 22, 2007 [INVITED]
77. Discussion talk, “Empirical correlations and their theoretical interpretations”, in Aspen summer workshop “implications of Swift’s discoveries about gamma-ray bursts”, Jun. 14, 2007
76. Discussion talk, “X-ray afterglow segments and GRB jets”, in Aspen summer workshop “implications of Swift’s discoveries about gamma-ray bursts”, Jun. 8, 2007
75. Conference talk, “GRB afterglows: beyond the forward shock models”, in Workshop on future opportunities for Swift Science, Penn State University, PA, May 1, 2007
74. Conference talk, “GRB 060614 and a novel GRB classification scheme”, in Workshop on Short Gamma-ray bursts, Ringburg Castle at Lake Tegernsee, Germany, Mar. 28, 2007 [INVITED]
73. Conference talk, “GRB study with GLAST”, in 1st GLAST Symposium, Stanford University, CA, Feb.7, 2007
72. Conference talk, “XRF 060218 and its implications”, in 9th meeting of the AAS High Energy Astrophysics Division (HEAD), San Francisco, CA, Oct. 6, 2006
71. Key results talk, “Messages from GRB (XRF) 060218”, in the discussion meeting Recent developments in the study of Gamma-ray bursts”, Royal Society, London, Sep. 19, 2006
70. Invited conference talk, “GRB theory in the Swift era”, 11th Marcel Grossmann Meeting, Berlin, Germany, July. 23-29, 2006, travel canceled due to visa reasons [INVITED]
69. Invited conference talk, “GRB afterglows”, in 36th COSPAR meeting, Beijing, China, Jul. 22, 2006 [INVITED]
68. Session chair, in Radio pulsar and related astrophysics discussion meeting, Tianjin, China, Jul. 14, 2006
67. Invited conference talk, “Nature of rotating radio transients (RRATs)”, in Radio pulsar and related astrophysics discussion meeting, Tianjin, China, Jul. 14, 2006 [INVITED]
66. Invited conference talk, “GRB physics in the Swift era”, Overseas Chinese Physics Association, Taipei, June 27-30, 2006, travel canceled [INVITED]
65. Conference talk, “GRB science with Swift and possible broad-band follow-up observations at Southern Utah Observatory”, Science meeting of Southern Utah Observatory, Jun. 26, 2006
64. Invited conference talk, “Ultra-high energy neutrinos from GRBs”, in Neutrino 2006, Santa Fe, NM, Jun. 19, 2006 [INVITED]

63. Conference talk, “Nature of X-ray flares”, in “Swift and GRBs: unveiling the relativistic universe”, June 5-9, 2006, San Servolo, Venice, Italy, travel canceled due to visa reason
62. Colloquium, “GRB Physics in the Swift era”, National Astronomical Observatory, Beijing, China, Jun. 5, 2006 [INVITED]
61. Colloquium, “Possible new clues towards understanding pulsar radio emission”, Dept. of Astronomy, Peking University, China, Jun. 1, 2006 [INVITED]
60. Colloquium, “Possible new clues towards understanding pulsar radio emission”, Purple Mountain Observatory, Nanjing, China, May 23, 2006 [INVITED]
59. Colloquium, “GRB physics in the Swift era”, Dept. of Astronomy, Nanjing University, Nanjing, China, May 22, 2006 [INVITED]
58. Invited conference talk, “GRB physics in the Swift era”, in “One millennium of SN1006”, May 19, 2006, Hangzhou, China [INVITED]
57. Colloquium, National Radio Astronomical Observatory (NRAO), Socorro, NM, “GRB physics in the Swift era”, Mar. 3, 2006 [INVITED]
56. Conference talk, at “New Views of the Universe”, Kavli Institute Inaugural Symposium in honor of David Schramm, Dec. 8-13, 2005, Chicago, IL, “Gamma-ray burst early afterglows”, Dec. 11, 2005 [INVITED]
55. Conference talk, at 16th Annual October Astrophysics Conference in Maryland, “Gamma-ray bursts in the Swift era”, Nov. 29 - Dec. 2, 2005, Washington, DC, “Physical origin of X-ray flares”, Nov. 30, 2005
54. Seminar, Stanford Linear Accelerator Center (SLAC) & KIPAC, Stanford, CA, “Gamma-ray bursts: from Swift to GLAST”, Oct. 19, 2005 [INVITED]
53. Seminar, Santa Cruz Institute of Particle Physics (SCIPP), UCSC, CA, “Gamma-ray bursts: from Swift to GLAST”, Oct. 18, 2005 [INVITED]
52. Seminar, Los Alamos National Laboratory, New Mexico, “Gamma-ray bursts: from Swift to GLAST”, Sep. 29, 2005 [INVITED]
51. Seminar, JILA, Univ. Colorado, Boulder, CO, “Gamma-ray burst early afterglows”, Sep. 23, 2005 [INVITED]
50. Conference talk, “The 2005 Lake Hanas International Pulsar Symposium”, Lake Hanas & Urumqi, China, Aug. 2-7, 2005, “Possible new clues towards understanding pulsar radio emission”, Aug. 7, 2005 [INVITED] (delivered by Janusz Gil)
49. Conference talk, Swift Science meeting, Jul. 26-27, 2005, NASA/GSFC, Maryland, “Recent Swift discoveries and their physical interpretations”, Jul. 26, 2005
48. Colloquium, Peking University, Beijing, China, “Gamma-ray burst early afterglows”, Jul. 8, 2005
47. Colloquium, Tsinghua University, Beijing, China, “Gamma-ray burst early afterglows”, Jul. 3, 2005
46. Conference talk, Meeting on “Astrophysics Sources of High Energy Particles and Radiation”, Jun. 20-24, 2005, Torun, Poland, “Gamma-ray burst early afterglows”, Jun. 21, 2005 [INVITED]
45. Seminar, Penn State University, “GRB and Swift revolution”, Feb. 18, 2005
44. Seminar, NASA/GSFC, Greenbelt, MD, “GRB and Swift revolution”, Feb. 14, 2005
43. Conference talk, AAS 205th Meeting, San Diego, “Early afterglows & GRB jet composition”, Jan. 13, 2005
42. Conference talk, Meeting of the High Energy Astrophysics Division (HEAD), AAS, New Orleans, Louisiana, “Diagnosis of GRB magnetization with Swift”, Sep. 10, 2004

41. Conference talk, Meeting of The Division of Particles and Fields (DPF), APS, University of California, Riverside, “Gamma-ray burst jets: composition and configuration”, Aug. 30, 2004
40. Colloquium, University of Nevada, Las Vegas, NV, “Gamma-ray bursts: anticipating the new era”, Apr. 14, 2004 [INVITED]
39. Invited conference talk at “GRB Physics before Swift”, University Park, “Mean doctrine and GRBs: jet content and geometric configuration”, Apr. 10, 2004 [INVITED]
38. Colloquium, University of Texas, San Antonio, “Gamma-ray bursts: anticipating the new era”, Feb. 10, 2004 [INVITED]
37. Lunch talk, Penn State University, “GRBs: standard explosions and the role of magnetic fields - a Swift prospect”, Jan. 22, 2004
36. Lunch talk, Canadian Institute of Theoretical Astrophysics, “Recent developments in Gamma-ray burst study”, Nov. 11, 2003
35. Colloquium, Cornell University, Department of Astronomy, “Gamma-ray bursts: a possible magnetized central engine and a quasi-universal structured jet configuration”, Oct. 29, 2003 [INVITED]
34. Conference talk, GRB 2003, Santa Fe, NM, “Gamma-ray burst early afterglows and a quasi-universal structured jet model”, Sep. 10, 2003
33. Invited talk at 10th Marcel Grossman Meeting on General Relativity, Rio de Janeiro, Brazil, July 20-26, 2003, “GRB jets”, travel canceled due to the visa reason [INVITED]
32. Conference talk, AAS meeting, Nashville, TN, “Gamma-ray burst early afterglows”, May 29, 2003
31. Conference talk, Swift Science Meeting, University Park, PA, “Gamma-ray burst early afterglows and Swift UVOT operation”, Apr. 29, 2003
30. Invited talk, workshop on “Strong Magnetic Fields and Neutron Stars”, Havana, Cuba, “Rotation power of magnetars”, April 2003, travel canceled due to the visa reason [INVITED]
29. Colloquium, Millersville University, Millersville, PA, “Gamma-ray bursts: the most violent explosions after Big Bang”, Mar. 19, 2003 [INVITED]
28. Colloquium, Purdue University, Department of Physics, West Lafayette, IN, “Gamma-ray bursts and afterglows: anticipating the new epoch”, Feb. 6, 2003, “Gamma-ray bursts and afterglows: anticipating the new epoch” [INVITED]
27. Colloquium, Canadian Institute of Theoretical Astrophysics (CITA), Toronto, Ontario, Canada, “Gamma-ray bursts and afterglows: anticipating the new epoch”, Jan. 9, 2003 [INVITED]
26. Colloquium, Vanderbilt University, Department of Physics and Astronomy, Nashville, TN, “Gamma-ray bursts and afterglows: anticipating the new epoch”, Dec. 12, 2002 [INVITED]
25. Colloquium, National Astronomical Observatories of CAS (NAOC), Beijing, China, “Pulsar polar cap model and radio emission deathlines”, Nov. 22, 2002 [INVITED]
24. Colloquium, Peking University, Dept. of Astronomy, Beijing, China “Magnetars and pulsars: a missing link”, Nov. 21, 2002 [INVITED]
23. Colloquium, Peking University, School of Physics, “Some recent developments in gamma-ray burst afterglow and prompt emission models”, Nov. 20, 2002 [INVITED]
22. Seminar, Caltech, Theoretical Astrophysics Including Relativity (TAPIR), Pasadena, CA, “Gamma-ray bursts: jet and prompt emission models”, Sep. 27, 2002

21. Seminar, UC Berkeley, Theoretical Astrophysical Center (TAC), Berkeley, CA, “Gamma-ray bursts: GeV afterglows, universal jets, and nature of X-ray flashes”, Sep. 24, 2002
20. Seminar, Penn State University, Astronomy & Astrophysics Department, University Park, PA, “Gamma-ray bursts: jet and prompt emission models”, Sep. 17, 2002
19. Invited talk, IAU Symposium No.214, High energy processes and phenomena in astrophysics, Suzhou, China, “GeV afterglows, Universal jet model & Nature of X-ray flashes”, Aug. 9, 2002 [INVITED]
18. Review talk, Sino-German Radio Astronomy Conference on “Radio Studies of Galactic Objects, Galaxies and AGNs”, Xi’an, China, “Radio pulsar death”, Jul. 23, 2002 [INVITED]
17. Invited talk at “The sixth Pacific rim conference of stellar astrophysics, a tribute to Helmut A. Abt”, Xi’an, China, “Pulsars and magnetars: a missing link”, Jul. 11, 2002 [INVITED]
16. Conference talk, APS/HEAD meeting, Albuquerque, NM, “Gamma-ray burst E peak and the nature of X-ray flashes”, Apr. 23, 2002
15. Conference talk, the Swift Science meeting, “A unified jet model for Gamma-ray bursts”, Feb. 5, 2002
14. Seminar, Lab of high energy astrophysics (LHEA), NASA Goddard Space Flight Center, “Gamma-ray burst and afterglow theories: prospects to the Swift-GLAST era”, Feb. 4, 2002
13. Conference talk at “Gamma-Ray Burst and Afterglow Astronomy 2001: A Workshop Celebrating the First Year of the HETE Mission”, Woods Hole, Massachusetts, “GRB afterglows: two post-standard effect”, Nov. 8, 2001
12. Seminar, Penn State University, Astronomy & Astrophysics Department, “Gamma-ray bursts: what we will learn from Swift, GLAST, and Chandra?”, Oct. 16, 2001
11. Conference talk, “Soft Gamma Repeaters: The Rome 2000 Mini-Workshop”, Rome - CNR Headquarters, Italy, “Nature and nurture: a model of soft gamma-ray repeaters”, Oct. 16, 2000
10. Seminar, Canadian Institute of Theoretical Astrophysics (CITA), Toronto, Ontario, Canada, “Some issues on magnetars”, Jul. 13, 2000
09. Seminar, Penn State University, Astronomy & Astrophysics Department, University Park, PA, “Pulsar inner accelerators and radio emission death lines”, May 9, 2000 [INVITED]
08. Seminar, Institute for Advanced Study (IAS), Princeton, NJ, “Pulsar inner accelerators and radio emission death lines”, Apr. 12, 2000
07. Seminar, Naval Research Laboratory, Washington, DC, “Pulsar inner accelerators and broad-band emission”, Dec. 8, 1999 [INVITED]
06. Conference talk, Fifth Compton Symposium, Portsmouth, NH, “Gamma-ray and X-ray luminosities of spin-powered pulsars in full polar cap cascade model”, Sep. 17, 1999
05. CfA/MIT joint NS/SNR weekly seminar, Massachusetts Institute of Technology, Cambridge, MA, “Gamma-ray and X-ray luminosities of spin-powered pulsars in full polar cap cascade model”, Sep. 15, 1999
04. Conference talk at “Pulsar astronomy - 2000 and beyond”, IAU 177., “A full polar cap cascade model: pulsar  $\gamma$ -ray and X-ray luminosities”, travel canceled due to the visa reason, Sep. 02, 1999
03. Conference talk, the 1997 Pacific Rim Conference on Stellar Astrophysics, Hong Kong, China, “Inverse Compton scattering in pulsar polar cap physics and an understanding of

- Geminga's emission behavior", Aug. 1997
02. Conference talk, The 21st Century Chinese Astronomy Conference, "Inverse Compton scattering and pulsar inner gap theory", Aug. 2, 1996
  01. Conference talk, The 21st Century Chinese Astronomy Conference, "Searching for black holes", Aug. 3, 1996

#### 4. Miscellaneous (abstracts, posters etc., partial list)

21. Enwei Liang, Bin-Bin Zhang, **Bing Zhang**, Jin Zhang, Z. G. Dai, 10/2006, 9th AAS HEAD meeting, #13.49
20. P. Schady, C. Gronwall, K. O. Mason, M. J. Page, P. W. A. Roming, M. Still, **B. Zhang** and Swift UVOT team, 12/2005, AAS Meeting 207, #150.07
19. P. W. A. Roming, P. Schady, D. B. Fox, **B. Zhang**, E. Liang, "Suppression of the early optical afterglow of gamma-ray bursts", 12/2005, AAS Meeting 207, #75.05
18. **B. Zhang**, "Diagnosis of GRB magnetization with Swift", 08/2004, AAS HEAD meeting #8, #18.05
17. **B. Zhang**, Y. Z. Fan, S. Kobayashi, "Early afterglows and GRB jet composition", 12/2004, AAS Meeting 205, #160.07
16. M. V. Ivanushkina, L. Gou, P. W. A. Roming, **B. Zhang**, P. Mészáros, "Swift-UVOT and Gemini-NIRI studies of dark bursts", 12/2004, AAS Meeting 205, #115.03
15. A. Retter, **B. Zhang**, L. Siess, A. Levinson, "The planets-swallowing model for the outburst of V838 Mon", 12/2004, AAS Meeting 205, #29.03
14. One of the 11 AstroParticle Physics top papers during 1993-2003 (Xu, Zhang & Qiao, 2001, AstroParticle Physics, 15, 101) Source: Elsevier Physics introduction for the AstroParticle Physics journal
13. L. J. Gou, Peter Mészáros, T. Abel & **B. Zhang**, "Detectability of long GRB afterglows from very high redshifts", Poster presented at "The First Stars II" conference held at Penn State University, May 29-30, 2003
12. Junfeng Wang, Jian Ge, **Bing Zhang**, Tom Abel, Peter Mészáros, John Nousek, Gordon Garmire & Lijun Gou, "Detection of first generation stars through catching GRBs at  $z > 6$  in IR", Poster presented at "The First Stars II" conference held at Penn State University, May 29-30, 2003
11. **Bing Zhang**, & Steinn Sigurdsson, "Electromagnetic signals from planetary collisions", Poster presented at the 14th Annual October Astrophysics Conference in Maryland, "The Search for Other Worlds", College Park, MD
10. M. V. Ivanushkina, P. W. A. Roming, **B. Zhang**, L. J. Gou, P. Mészáros, "Swift-UVOT and Gemini-NIRI study of Dark Bursts Afterglows", 05/2003, AAS Meeting 203, #87.01
09. **B. Zhang**, S. Kobayashi & P. Mészáros, "Gamma-ray burst early optical afterglow: implications for the initial Lorentz factor and the central engine", 05/2003, AAS Meeting 202, #54.02
08. **Bing Zhang** & Peter Mészáros, 04/2002, "On the nature of X-ray flashes and X-ray rich gamma-ray bursts", APS, April Meeting, Jointly sponsored with the HEAD of AAS, April 20-23, 2002, Albuquerque, New Mexico, APR02, #X6.004
07. **Bing Zhang** & Peter Mészáros, 01/2002, "Gamma-ray bursts beaming: a universal configuration with a standard energy reservoir?", Poster presented at American Astronomical Society Meeting 199, #12.01, Washington DC
06. Dec. 27, 2000 - Jan. 5, 2001, participant of The 18th Jerusalem Winter School in

Theoretical Physics, Directors: Ramesh Narayan and Tsvi Piran

05. **Bing Zhang**, Alice K. Harding, & Alexander G. Muslimov, Jan. 1999, “Radio pulsar death line revisited: is PSR J2144-3933 anomalous?”, Poster presented at American Astronomical Society Meeting 195, #133.03, Atlanta, Georgia
04. Sep. 1998, “Radiation theories of radio pulsars and searching for binary radio pulsars”, Postdoctoral research report, Peking University
03. Jan. 1997, “Inverse Compton scattering in strong magnetic fields and pulsar polar cap physics”, PhD thesis, Peking University
02. Jul. 1994, “Observations and theories of radio pulsars and a study on the inner gaps in an inverse Compton scattering model”, M.S. thesis, Peking University
01. Jul. 1991, “Research on the turning points of geomagnetic secular variation” (in Chinese), B.S. thesis, Peking University

## 5. Circulars

29. B.-B. Zhang, E.-W. Liang, **B. Zhang**, 2008, “GRB 080319B: apparent spectral evolution in very early Swift/XRT WT mode data: intrinsic or pile-up effect?”, GRB Coordinates Network, Circular Service, 7511
28. J. Nousek, G. Cusumano, A. Moretti, G. Tagliaferri, S. Campana, J. Kennea, D. Burrows, P. Roming, D. VandenBerk, P. Brown, N. Gehrels, S. Barthelmy, F. Marshall, P. Boyd, T. Sakamoto, J. Osborne, P. O’Brien, G. Chincarini, **B. Zhang**, M. de Pasquale, 2006, “GRB 060218: Likely an underluminous GRB”, GRB Coordinates Network, Circular Service, 4805
27. Burrows, D. N., Grupe, D., Kouveliotou, C., Patel, S., Mészáros, P., **Zhang, B.**, Wijers, R. A. M. J. 2005, “GRB 050724: Chandra observations of the X-ray afterglow”, GRB Coordinates Network, Circular Service, 3697
26. Kennea, J. A., Burrows, D. N., **Zhang, B.**, Gehrels, N. 2005, “GRB 050504: swift XRT afterglow candidate has faded”, GRB Coordinates Network, Circular Service, 3426
25. Patel, S., Kouveliotou, C., Burrows, D. N., Grupe, D., Gehrels, N., Mészáros, P., **Zhang, B.**, Wijers, R. 2005, “Refined Chandra analysis of GRB 050509b”, GRB Coordinates Network, Circular Service, 3419
24. Burrows, D. N., Grupe, D., Kouveliotou, C., Patel, S., Gehrels, N., Mészáros, P., **Zhang, B.**, Wijers, R. 2005, “Chandra observation of GRB 050509b”, GRB Coordinates Network, Circular Service, 3415
23. Hurkett, C., Page, K., Osborne, J. P., **Zhang, B.**, Kennea, J., Burrows, D. N., Gehrels, N. 2005, “GRB 050502a: swift XRT upper limit”, GRB Coordinates Network, Circular Service, 3374
22. Kennea, J. A., Burrows, D. N., Page, K., Hurkett, C. P., **Zhang, B.**, Gehrels, N. 2005, “GRB 050504: swift XRT position”, GRB Coordinates Network, Circular Service, 3359
21. Falcone, A., Burrows, D. N., Chester, M., Schady, P., Cummings, J., Palmer, D., Pagani, C., **Zhang, B.**, Page, K., Goad, M., Gehrels, N. 2005, “Swift detection of the bright burst GRB050502b”, GRB Coordinates Network, Circular Service, 3330
20. Barthelmy, S., Markwardt, C., Palmer, D., **Zhang, B.** 2005, “Swift-BAT trigger 115881 is not a real GRB”, GRB Coordinates Network, Circular Service, 3321
19. **Zhang, B.**, Palmer, D., Barthelmy, S., Falcone, A., Burrows, D., Chester, M., Kennea, J., Pagani, C., Gehrels, N. 2005, “Swift/BAT possible detection of a weak burst GRB050430”, GRB Coordinates Network, Circular Service, 3320

18. La Parola, V., Mangano, V., Mineo, T., Cusumano, G., Kennea, J. A., Burrows, D. N., Pagani, C., Romano, P., Osborne, J. P., O'Brien, P. T., Capalbi, M., Tamburelli, F., **Zhang, B.**, Fink, R., Barthelmy, S., Gehrels, N. 2005, "GRB 050410: swift XRT position", GRB Coordinates Network, Circular Service, 3218
17. Brown, P., Rosen, S., McGowan, K., de Pasquale, M., Boyd, P., Holland, S. T., Still, M., Landsman, W., Hunsberger, S., Breeveld, A., Roming, P., Mason, K., Schady, P., Ivanushkina, M., Poole, T., Gronwall, C., Blustin, A., Koch, S., Carter, M., Huckle, H., Broos, P., Kennedy, T., Smith, P., Hancock, B., Chester, M., **Zhang, B.**, Nousek, J., Gehrels, N. 2005, "GRB050215B: late-time swift UVOT observations", GRB Coordinates Network, Circular Service, 3069
16. Gronwall, C., Blustin, A., Brown, P., Rosen, S., McGowan, K., de Pasquale, M., Boyd, P., Holland, S., Still, M., Landsman, W., Hunsberger, S., Breeveld, A., Roming, P., Mason, K., Schady, P., Ivanushkina, M., Poole, T., Smith, P., Hancock, B., Koch, S., Carter, M., Huckle, H., Broos, P., Kennedy, T., Racusin, J., Fenimore, E., **Zhang, B.**, Nousek, J., Gehrels, N. 2005, "GRB050223: no swift UVOT detection of afterglow emission", GRB Coordinates Network, Circular Service, 3057
15. Giommi, P., Capalbi, M., Perri, M., Tamburelli, F., Cusumano, G., Mangano, V., La Parola, V., Burrows, D. N., Kennea, J. A., Nousek, J. A., Page, K. L., Goad, M. R., Romano, P., Tagliaferri, G., Chincarini, G., Gehrels, N., **Zhang, B.** 2005, "GRB 050223: swift XRT position", GRB Coordinates Network, Circular Service, 3054
14. Poole, T., Gronwall, C., Blustin, A., Brown, P., Rosen, S., McGowan, K., de Pasquale, M., Boyd, P., Holland, S., Still, M., Landsman, W., Hunsberger, S., Breeveld, A., Roming, P., Mason, K., Schady, P., Ivanushkina, M., Kennedy, T., Smith, P., Hancock, B., Koch, S., Carter, M., Huckle, H., Broos, P., Racusin, J., Fenimore, E., **Zhang, B.**, Nousek, J., Gehrels, N. 2005, "GRB050219b: Correction to time of UVOT observations", GRB Coordinates Network, Circular Service, 3052
13. Poole, T., Gronwall, C., Blustin, A., Brown, P., Rosen, S., McGowan, K., de Pasquale, M., Boyd, P., Holland, S., Still, M., Landsman, W., Hunsberger, S., Breeveld, A., Roming, P., Mason, K., Schady, P., Ivanushkina, M., Kennedy, T., Smith, P., Hancock, B., Koch, S., Carter, M., Huckle, H., Broos, P., Racusin, J., Fenimore, E., **Zhang, B.**, Nousek, J., Gehrels, N. 2005, "GRB050219b: no swift UVOT detection of afterglow emission", GRB Coordinates Network, Circular Service, 3050
12. Racusin, J. L., Pagani, C., Campana, S., La Parola, V., Morris, D. C., Burrows, D. N., Nousek, J. A., Godet, O., Abbey, A. F., Tamburelli, F., Hurley, K., **Zhang, B.**, Hinshaw, D., Angelini, L., White, N., Gehrels, N. 2005, "GRB 050219b: CORRECTION to refined XRT position", GRB Coordinates Network, Circular Service, 3049
11. Ivanushkina, M., Poole, T., Gronwall, C., Blustin, A., Brown, P., Rosen, S., McGowan, K., de Pasquale, M., Boyd, P., Holland, S., Still, M., Landsman, W., Hunsberger, S., Breeveld, A., Roming, P., Mason, K., Schady, P., Broos, P., Kennedy, T., Smith, P., Hancock, B., Koch, S., Carter, M., Huckle, H., Racusin, J., Fenimore, E., **Zhang, B.**, Nousek, J., Gehrels, N. 2005, "GRB050219b: no swift UVOT detection of afterglow emission", GRB Coordinates Network, Circular Service, 3046
10. Racusin, J. L., Pagani, C., Campana, S., La Parola, V., Morris, D. C., Burrows, D. N., Nousek, J. A., Godet, O., Abbey, A. F., Tamburelli, F., Hurley, K., **Zhang, B.**, Hinshaw, D., Angelini, L., White, N., Gehrels, N. 2005, "GRB 050219b: refined XRT position", GRB Coordinates Network, Circular Service, 3045

09. Cummings, J., Barthelmy, S., Barbier, L., Cannizzo, J., Chester, M., Fenimore, E., Galassi, M., Gehrels, N., Hullinger, D., Krimm, H., Markwardt, C., Palmer, D., Parsons, A., Sakamoto, T., Sato, G., Suzuki, M., Takahashi, T., Tueller, J., **Zhang, B.** 2005, “GRB 050219b: Swift-BAT detection of a burst”, GRB Coordinates Network, Circular Service, 3044
08. Burrows, D. N., Hill, J. E., Kennea, J. A., Racusin, J. L., Pagani, C., Moretti, A., Godet, O., Abbey, A. F., La Parola, V., Tamburelli, F., Hurley, K., **Zhang, B.**, Hinshaw, D., Angelini, L., White, N., Gehrels, N. 2005, “GRB 050219b: CORRECTION: swift XRT position”, GRB Coordinates Network, Circular Service, 3043
07. Burrows, D. N., Hill, J. E., Kennea, J. A., Racusin, J. L., Pagani, C., Moretti, A., Godet, O., Abbey, A. F., La Parola, V., Tamburelli, F., Hurley, K., **Zhang, B.**, Hinshaw, D., Angelini, L., White, N., Gehrels, N. 2005, “GRB 050219b: swift XRT position”, GRB Coordinates Network, Circular Service, 3042
06. Page, K. L., Goad, M. R., Godet, O., Osborne, J. P., Perri, M., Racusin, J. L., Burrows, D. N., Pagani, C., Tagliaferri, G., Mangano, V., Hurley, K., White, N., Gehrels, N., **Zhang, B.** 2005, “GRB 050219a: refined XRT position”, GRB Coordinates Network, Circular Service, 3040
05. Schady, P., Ivanushkina, M., Poole, T., Gronwall, C., Blustin, A., Brown, P., Rosen, S., McGowan, K., de Pasquale, M., Boyd, P., Holland, S., Still, M., Landsman, W., Hunsberger, S., Breeveld, A., Roming, P., Mason, K., Huckle, H., Broos, P., Kennedy, T., Smith, P., Hancock, B., Koch, S., Carter, M., Racusin, J., Fenimore, E., **Zhang, B.**, Nousek, J., Gehrels, N. 2005, “GRB050219a: no swift UVOT detection of afterglow emission”, GRB Coordinates Network, Circular Service, 3039
04. Hullinger, D., Barthelmy, S., Barbier, L., Cummings, J., Fenimore, E., Gehrels, N., Krimm, H., Markwardt, C., Norris, J., Nousek, J., Palmer, D., Parsons, A., Perri, M., Sakamoto, T., Sato, G., Smale, A., Suzuki, M., Tueller, J., **Zhang, B.** 2005, “GRB 050219: Swift-BAT detection of a burst”, GRB Coordinates Network, Circular Service, 3038
03. Romano, P., Perri, M., Beardmore, A., Mangano, V., Burrows, D. N., Hill, J. E., **Zhang, B.**, Gehrels, N. 2005, “GRB 050219: prompt X-ray position”, GRB Coordinates Network, Circular Service, 3036
02. Goad, M., Page, K., Osborne, J. P., O’Brien, P., Morris, D. C., Kennea, J. A., Burrows, D. N., Racusin, J. L., Hill, J. E., Chester, M. M., Nousek, J. A., Giommi, P., Capalbi, M., Perri, M., Tamburelli, F., Romano, P., Tagliaferri, G., Campana, S., Moretti, A., Pagani, C., Chincarini, G., Cusumano, G., Mangano, V., La Parola, V., Wells, A. A., **Zhang, B.**, Sakamoto, T., Angelini, L., Gehrels, N., Voges, W., Cominsky, L., Tripicco, M. 2005, “GRB 050215b: XRT confirmation of IR afterglow candidate”, GRB Coordinates Network, Circular Service, 3034
01. Goad, M., Page, K., Osborne, J. P., O’Brien, P., Morris, D. C., Kennea, J. A., Burrows, D. N., Racusin, J. L., Hill, J. E., Chester, M. M., Nousek, J. A., Giommi, P., Capalbi, M., Perri, M., Tamburelli, F., Romano, P., Tagliaferri, G., Campana, S., Moretti, A., Pagani, C., Chincarini, G., Cusumano, G., Mangano, V., La Parola, V., Wells, A. A., **Zhang, B.**, Sakamoto, T., Angelini, L., Gehrels, N., Voges, W., Cominsky, L., Tripicco, M. 2005, “GRB 050215b: swift XRT source variability”, GRB Coordinates Network, Circular Service, 3032