

SELECT ACADEMIC ACHIEVEMENTS ---

- ★ **81** papers published in refereed journals (+ **1** accepted + **2** submitted)
- ★ **30** first (or main) author papers; **3** review articles
- ★ **23** invited talks at international conferences
- ★ Over **3200** citations (SAO/NASA Astrophysics Data System)

PROFESSIONAL ACTIVITY ---

- Peer Review for: Astrophysical Journal (main journal 2000– & Letters 2001–); Astronomy and Astrophysics 2002–; Monthly Notices of the Royal Astronomical Society (main journal 2004– & Letters 2005–); Physical Review Letters 2005–; Pub. Astron. Soc. Jap. 2005–; Science Magazine 2005–; Reports on Progress in Physics 2006–; Revista Mexicana de A&A 2006–; Advances in Space Research 2009–
- Peer review of proposals for: National Aeronautics and Space Administration (NASA); European Science Foundation (ESF); US-Israel Binational Science Foundation (BSF)
- Co-I in VLBA, VLA, VLT, Chandra, Spitzer, and Hubble Space Telescope proposals, and PI of a VLBA proposal
- Chaired sessions or was a member of the SOC in international conferences 2005–
- Member of the **Swift** Science Theory Team 2006–
- Affiliated Scientist with the **Fermi Large Area Telescope** collaboration 2007–
- Involved in the **Cherenkov Telescope Array** (next generation TeV instrument) 2008–

SOME RECENT RESEARCH FUNDING ---

- Marie Curie International Reintegration Grant (€ 25,000 per year, for 4 years)
- Royal Society Wolfson Research Merit Award (£ 9,000 per year, for 2 years)

TEACHING AND MENTORING EXPERIENCE ---

- Teaching courses in astrophysics, physics, mathematics, and programming (2007–)
- Worked as an instructor at a second year undergraduate physics lab during my Ph.D. studies (1998 – 2001), and as a teaching assistant during my M.Sc. (1996 – 1998)
- Gave tutorial talks at summer schools and review talks at conferences
- Worked with PhD students, during my post-docs at Princeton (2001 – 2004) and at Stanford (2004 – 2007), and guided them in the course of our collaborative work; supervised a post-doc at the University of Hertfordshire (2007 – 2009).
- Mentored a summer student and guided him through a research project, at Stanford
- Organized a GRB Journal Club at KIPAC, Stanford (2006 – 2007)

INVITED TALKS SINCE 2006

1. “Highlights from Fermi Gamma-Ray Space Telescope observations of Gamma-Ray Bursts”, **invited** talk at the “April” 2010 Meeting of the American Physical Society, February 14, 2010, Washington, DC, USA
2. “High-Energy Fermi GRBs, Long and Short”, **invited** talk at the 215th meeting of the American Astronomical Society, January 4, 2010, Washington, DC, USA
3. “Some Implications of Fermi High-Energy GRB Observations”, **invited** talk at the meeting “The Shocking Universe”, September 15, 2009, San Servolo, Venic, Italy
4. “High-Energy Emission from GRBs: First Year Highlights from the Fermi Gamma-ray Space Telescope”, **invited** talk at the program “Particle Acceleration in Astrophysical Plasmas”, August 17, 2009, KITP, Santa Barbara, CA, USA
5. “Similarities and Differences between Fermi GRB 080825C and AGILE GRB 080514B”, **invited** talk at the 6th Science AGILE Workshop, April 23, 2009, Milan, Italy
6. “First Results from Fermi on GRBs”, **invited** talk at the Symposium “First Results from the Fermi Gamma-ray Space Telescope”, March 7, 2009, Tokyo, Japan
7. “GRB Theory in the Fermi Era”, **invited** talk at the 44th Rencontres de Moriond on “Very High Energy Phenomena in the Universe”, Feb. 2, 2009, La Thuile, Italy
8. “Gamma-Ray Bursts and High Energy Astrophysics”, **invited** talk at the STFC summer school for new research students in astronomy, Sep. 2, 2008, Hatfield, UK
9. “Theory of GRB Afterglows”, **invited** review talk at the workshop “Supernovae and GRBs at low z and in the Era of Reionization” May 28, 2008, Darjeeling, India
10. “Critical Review of Basic Afterglow Concepts”, **invited** review talk at the conference “070228: The Next Decade of GRB Afterglows”, March 21, 2007, Amsterdam
11. “Theory of GRB Afterglows”, **invited** talk at the conference “Circumstellar Media and Late Stages of Massive Stellar Evolution”, Sep. 7, 2006, Ensenada, Mexico
12. “Structure and Dynamics of GRB Jets”, **invited** talk at the conference “Challenges in Relativistic Jets”, June 27, 2006, Cracow, Poland
13. “The Magnetar-GRB Connection and the Giant Flare from SGR 1806-20”, **invited** talk at the workshop “The Multicoloured Landscape of Compact Objects and their Explosive Origins”, June 13, 2006, Cefalu, Sicily, Italy
14. “The Flat Decay Phase in the Early X-ray Afterglows of *Swift* GRBs”, **invited** talk at “Swift and GRBs: Unveiling the Relativistic Universe”, June 5, 2006, Venice, Italy
15. “GRB Jet Propagation Outside the Progenitor”, **invited** talk at the conference “Supernova and GRB Remnants”, Feb. 6, 2006, KITP, Santa Barbara, CA, USA

LIST OF PUBLICATIONS

Articles **published in refereed journals** are marked by ‘★’

Articles **submitted** to refereed journals but not yet published are marked by ‘◦’

Soft Gamma Repeaters

1. ★ “Discovery of a New Soft Gamma Repeater: SGR J0418+5729”, van der Horst, A. J., Connaughton, V., Kouveliotou, C., Göğüş, E., Kaneko, Y., Wachter, S., Briggs, M. S., **Granot, J.**, and 27 co-authors, 2010, **ApJ Lett.**, 711, L1–L6
2. ★ “Magnetar Twists: Fermi/Gamma-ray Burst Monitor (GBM) detection of SGR1550-5418”, Kaneko, Y., Göğüş, E., Kouveliotou, C., Ramirez-Ruiz, E., **Granot, J.**, and 10 co-authors, 2010, **ApJ**, 710, 1335–1342
3. ★ “An infrared ring around the magnetar SGR 1900+14”, Wachter, S., Ramirez-Ruiz, E., Dwarkadas, V. V., Kouveliotou, C., **Granot, J.**, Patel, S. K., & Figer, D. 2008, **Nature**, 453, 626–628
4. ★ “The Giant Flare from SGR 1806–20 and its Radio Afterglow”, Taylor, G. B., & **Granot, J.** 2006, **invited Brief Review, Mod. Phys. Lett. A**, 21, 2171–2188
5. ★ “Diagnosing the Outflow from the SGR 1806-20 Giant Flare with Radio Observations”, **Granot, J.**, Ramirez-Ruiz, E., Taylor, G. B., Eichler, D., Lyubarsky, Y. E., Wijers, R. A. M. J., Gaensler, B. M., Gelfand, J. D., & Kouveliotou, C. 2006, **ApJ**, 638, 391–396
6. ★ “The Growth, Polarization, and Motion of the Radio Afterglow from the Giant Flare from SGR 1806-20”, Taylor, G. B., Gelfand, J. D., Gaensler, B. M., **Granot, J.**, Kouveliotou, C., Fender, R. P., Ramirez-Ruiz, E., Eichler, D., Lyubarsky, Y. E., Garrett, M., Wijers, R. A. M. J. 2005, **ApJ Lett.**, 634, L89–L92
7. ★ “A Re-brightening of the Radio Nebula associated with the 2004 Dec. 27 Giant Flare from SGR 1806-20”, Gelfand, J. D., Lyubarsky, Y. E., Eichler, D., Gaensler, B. M., Taylor, G. B., **Granot, J.**, Newton-McGee, K. J., Ramirez-Ruiz, E., Kouveliotou, C., & Wijers, R. A. M. J. 2005, **ApJ Lett.**, 634, L93–L96
8. ★ “A giant γ -ray flare from the magnetar SGR 1806-20”, Palmer, D. M., Barthelmy, S., Gehrels, N., Kippen, R. M., Cayton, T., Kouveliotou, C., Eichler, D., Wijers, R. A. M. J., Woods, P. M., **Granot, J.**, & 18 co-authors, 2005, **Nature**, 434, 1107–1109
9. ★ “An expanding radio nebula produced by a giant flare from the magnetar SGR 1806-20”, Gaensler, B.M., Kouveliotou, C., Gelfand, J.D., Taylor, G.B., Eichler, D., Wijers, R. A. M. J., **Granot, J.**, & 12 co-authors, 2005, **Nature**, 434, 1104–1106

High Energy Neutrinos

10. ★ “Neutrinos from Pulsar Wind Bubbles as Precursors to Gamma-Ray Bursts”, **Granot, J.**, & Guetta, D. 2003, **Phys. Rev. Lett.**, 90, 191102
11. ★ “Neutrinos of Energy $\sim 10^{16}$ eV from Gamma-Ray Bursts in Pulsar Wind Bubbles”, Guetta, D., & **Granot, J.** 2003, **Phys. Rev. Lett.**, 90, 201103

Gravitational Microlensing

12. ★ “The Mean Number of Extra Microimage Pairs for Macrolensed Quasars” **Granot, J.**, Schechter, P. L., & Wambsganss, J. 2003, **ApJ**, 583, 575–583
13. ★ “Microlensing and the Surface Brightness Profile of the Afterglow Image of GRB 000301C”, Gaudi, B. S., **Granot, J.**, & Loeb, A. 2001, **ApJ**, 561, 178–182
14. ★ “Chromatic Signatures in the Microlensing of GRB Afterglows” **Granot, J.**, & Loeb, A. 2001, **ApJ Lett.**, 551, L63–L66

High Energy Emission from Relativistic Sources

15. ○ “Fermi Observations of GRB 090510: A Short Hard Gamma-Ray Burst with an Additional, Hard Power-Law Component from 10 keV to GeV Energies”, the Fermi LAT/GBM collaborations, 2010, submitted to **ApJ** (**J. Granot** is a contact author)
16. ★ “A limit on the variation of speed of light arising from quantum gravity effects”, the Fermi LAT and Fermi GBM Collaborations, 2009, **Nature**, 462, 331–334 (**J. Granot** is a corresponding author; he initiated, organized and supervised this work and was the main driving force behind it; he would be first author if not for the Fermi LAT collaboration’s strict alphabetical author list rule).
17. ★ “Fermi Detection of Delayed GeV Emission from the Short Gamma-Ray Burst 081024B” the Fermi and Swift collaborations, 2010, **ApJ**, 712, 558–564
18. ★ “Swift and Fermi observations of the early afterglow of the short Gamma-Ray Burst 090510”, M. De Pasquale, et al. (the Swift and Fermi collaboration), 2010, **ApJ Lett.**, 709, L146–L151
19. ★ “Fermi Observations of GRB 090902B: A Distinct Spectral Component in the Prompt and Delayed Emission”, the Fermi and Swift collaborations, 2009, **ApJ Lett.**, 706, L138–L144
20. ★ “Fermi observations of high-energy γ -ray emission from GRB 080825C”, the Fermi LAT/GBM collaborations, 2009, **ApJ**, 707, 580–592 (**J. Granot** is a contact author)
21. ★ “Fermi observations of high-energy gamma-ray emission from GRB 080916C”, the Fermi LAT and Fermi GBM Collaborations, 2009, **Science**, 323, 1688–1693

22. “GRB Theory in the Fermi Era”, **J. Granot**, for the Fermi LAT and Fermi GBM collaborations, invited talk, to appear in the proceedings of 44th Recontres de Moriond - “Very High Energy Phenomena in the Universe”, La Thuile (Val d’Aosta, Italy) February 1 - 8, 2009 (arXiv:0905.2206).
23. ★ “Prospects for GRB science with the GLAST Large Area Telescope”, the Fermi LAT collaboration, 2009, **ApJ**, 701, 1673–1694
24. “Gamma Ray Burst Section of the White Paper on the Status and Future of Ground-based TeV Gamma-ray Astronomy”, Falcone, A. D., Williams, D. A., Baring, M. G., Blandford, R., Buckley, J., Connaughton, V., Coppi, P., Dermer, C., Dingus, B., Fryer, C., Gehrels, N., **Granot, J.**, et al. 2008 (arXiv:0810.0520)
25. ★ “Opacity Build-up in Impulsive Relativistic Sources”, **Granot, J.**, Cohen-Tanugi, J., & do Couto e Silva, E. 2008, **ApJ**, 677, 92–126
26. ★ “A Simple Test of the External Shock Model for the Prompt Emission in Gamma-Ray Bursts”, Ramirez-Ruiz, E., & **Granot, J.** 2007, **New Astronomy**, 12, 630–634
27. ★ “High Energy Emission from the Double Pulsar system J0737–3039” **Granot, J.**, & Mészáros, P. 2004, **ApJ Lett.**, 609, L17–L20
28. ★ “Explaining the High Energy Spectral component in GRB 941017”, **Granot, J.**, & Guetta, D. 2003, **ApJ Lett.**, 598, L11–L14
29. ★ “High-Energy Emission from the Prompt Gamma-Ray Burst”, Guetta, D., & **Granot, J.** 2003, **ApJ**, 585, 885–889

Polarization in GRBs

30. ★ “Radio Flares and the Magnetic Field Structure in GRB Outflows”, **Granot, J.**, & Taylor, G. B. 2005, **ApJ**, 625, 263–270
31. ★ “The Most Probable Cause for the High Gamma-Ray Polarization in GRB 021206”, **Granot, J.** 2003, **ApJ Lett.**, 596, L17–L21
32. ★ “Linear Polarization in Gamma-Ray Bursts: The Case for an Ordered Magnetic Field”, **Granot, J.**, & Königl, A. 2003, **ApJ Lett.**, 594, L83–L87

Variability in GRB afterglows

33. ★ “Smooth Light Curves from a Bumpy Ride: Relativistic Blast Wave Encounters a Density Jump”, Nakar, E., & **Granot, J.** 2007, **MNRAS**, 380, 1744–1760
34. ★ “Refreshed Shocks from a γ -ray burst”, **Granot, J.**, Nakar, E., & Piran, T. 2003, **Nature**, 426, 138–139
35. ★ “Variability in GRB afterglows and GRB 021004” Nakar, E., Piran, T., & **Granot, J.** 2003, **New Astronomy**, 8, 495–505

Swift: Short-Hard GRBs, Early Afterglows, and More

36. ◦ “The long rapid decay phase of the extended emission from the short GRB080503”, Genet, F., Butler, N. R., & **Granot, J.** 2009, accepted to **MNRAS** (arXiv:0911.1503)
37. ★ “Limits on radioactive-powered emission associated with a short-hard GRB 070724A in a star-forming galaxy”, Kocevski, D., Thöne, C., Ramirez-Ruiz, E., Bloom, J. S., **Granot, J.**, Butler, N. R., Perley, D. A., Modjaz, M., Lee-Alardin, W. H., Cobb, B. E., Levan, A. J., & Covino, S. 2010, **MNRAS** (doi:10.1111/j.1365-2966.2010.16327.x; arXiv:0908.0030)
38. ★ “The spectral-temporal properties of the prompt pulses and rapid decay phase of GRBs”, Willingale, R., Genet, F., **Granot, J.**, & O’Brien, P. T. 2010, **MNRAS** (doi:10.1111/j.1365-2966.2009.16187.x; arXiv:0912.1759)
39. ★ “Testing High Latitude Emission in GRBs”, Genet, F., & **Granot, J.** 2009, **MNRAS**, 399, 1328 – 1346
40. ◦ “Late time observations of GRB080319B: jet break, host galaxy and accompanying supernova”, Tanvir, N. R., Rol, Levan, A., Fruchter, A., Granot, J., and 13 other co-authors, 2009, submitted to **ApJ** (arXiv:0812.1217)
41. ★ “GRB 080503: Implications of a Naked Short Gamma-Ray Burst Dominated by Extended Emission”, Perley, D. A., Metzger, B. D. **Granot, J.**, Butler, N. R., Sakamoto, T., Ramirez-Ruiz, E., et al. 2009, **ApJ**, 696, 1871 – 1885
42. ★ “GRB 080319B: A Naked-Eye Stellar Blast from the Distant Universe”, Racusin, J. L., Karpov, S. V., Sokolowski, M., **Granot, J.**, and 87 other co-authors, 2008, **Nature**, 455, 183 – 188
43. ★ “GRB 060714: No Clear Dividing Line between Prompt Emission and X-ray Flares”, Krimm, H. A, **Granot, J.**, Marshal., F., Perri, M., Barthelmy, S. D., Burrows, D. N., Gehrels, N., Mészáros, P., & Morris, D. 2007, **ApJ**, 665, 554 – 568
44. ★ “The flat decay phase in the early X-ray afterglows of Swift GRBs”, **Granot, J.** 2006, short review for “Swift and GRBs: Unveiling the Relativistic Universe”, Venice, Italy, June 5-9, 2006; **Il Nuovo Cimento B**, 121, 1073 – 1079
45. ★ “Swift detects a remarkable gamma-ray burst, GRB 060614, that introduces a new classification scheme”, Gehrels, N., Norris, J. P., Mangano, V., Barthelmy, S. D., Burrows, D. N., **Granot, J.**, et al. 2006, **Nature**, 444, 1044 – 1046
46. ★ “Implications of the Early X-Ray Afterglow Observations of Swift GRBs”, **Granot, J.**, Königl, A., & Piran, T. 2006, **MNRAS**, 370, 1946 – 1960
47. ★ “Distribution of Gamma-ray Burst Ejecta Energy with Lorentz Factor”, **Granot, J.**, & Kumar, P. 2006, **MNRAS Lett.**, 366, L13 – L16

48. ★ “The Case for Anisotropic Afterglow Efficiency within Gamma-Ray Burst Jets”, Eichler, D., & **Granot, J.** 2006, **ApJ Lett.**, 641, L5–L8
49. ★ “Evidence for a Canonical GRB Afterglow Light Curve in the *Swift*/XRT Data”, Nousek, J. A., Kouveliotou, C., Grupe, D., Page, K., **Granot, J.**, Ramirez-Ruiz, and 22 other co-authors, 2006, **ApJ**, 642, 389–400
50. ★ “The Galaxy Hosts and Large-Scale Environments of Short-Hard γ -ray Bursts”, Prochaska, J. X., Bloom, J. S., Chen, H.-W., Foley, R. J., Perley, D. A., Ramirez-Ruiz, E., **Granot, J.**, Lee, W. H., et al. 2005, **ApJ**, 642, 989–994
51. ★ “Constraints on Short Gamma-Ray Burst Models with Optical Limits of GRB 050509b”, Hjorth, J., Sollerman, J., Gorosabel, J., **Granot, J.**, Klose, S., Kouveliotou, C., Melinder, J., Ramirez-Ruiz, E., et al. 2005, **ApJ Lett.**, 630, L117–L120
52. ★ “A Compact Binary Merger Model for GRB 050509b”, Lee, W. H., Ramirez-Ruiz, E., & **Granot, J.** 2005, **ApJ Lett.**, 630, L165–L168
53. ★ “Closing in on a Short-Hard Burst Progenitor: Constraints from Early-Time Optical Imaging and Spectroscopy of a Possible Host Galaxy of GRB 050509b”, Bloom, J. S., Prochaska, J. X., Pooley, D., Blake, C. W., Foley, R. J., Jha, S., Ramirez-Ruiz, E., **Granot, J.**, et al. 2006, **ApJ**, 638, 354–368

Structure of GRB Jets

54. ★ “The Structure and Dynamics of GRB Jets”, **Granot, J.** 2006, **invited review** for the proceedings of the conference “Triggerring Relativistic Jets”, held in Cozumel, Mexico, on March 28 to April 1, 2005; **Rev. Mex. A&A**, 27, 140–165
55. ★ “Revealing the Jet Structure of GRB 030329 with High Resolution Multicolor Photometry”, Gorosabel, J., Castro-Tirado, A. J., Ramirez-Ruiz, E., **Granot, J.**, et al. 2006, **ApJ Lett.**, 641, L13–L16
56. ★ “Afterglow Light Curves from Impulsive Relativistic Jets with an Unconventional Structure”, **Granot, J.** 2005, **ApJ**, 631, 1022–1031
57. ★ “Two-Component Jet Models of Gamma-Ray Burst Sources”, Peng, F., Königl, A., & **Granot, J.** 2005, **ApJ**, 626, 966–977
58. ★ “Constraining the Structure of GRB Jets through the $\log(N)$ - $\log(S)$ Distribution”, Guetta, D., **Granot, J.**, & Begelman, M.C. 2005, **ApJ**, 622, 482–491
59. ★ “Testing the Predictions of the Universal Structured GRB Jet Model”, Nakar, E., **Granot, J.**, & Guetta, D. 2004, **ApJ Lett.**, 606, L37–L40
60. ★ “Constraining the Structure of Gamma-Ray Burst Jets through the Afterglow Light Curves”, **Granot, J.**, & Kumar, P. 2003, **ApJ**, 591, 1086–1096

Structure and Stability of Relativistic Shocks

61. ★ “Stability of Radiative Relativistic Shocks to Global Oscillations”, Königl, A., & **Granot, J.** 2008, *International Journal of Modern Physics D*, 17, 1777–1786
62. ★ “Radiative Hydromagnetic Shocks in Relativistic Outflow Sources”, **Granot, J.**, & Königl, A. 2001, **ApJ**, 560, 145–159

X-ray Flashes, GRBs Viewed Off-Axis & Orphan Afterglows

63. ★ “A late time afterglow rebrightening in GRB081028”, Margutti, R., Genet, F., **Granot, J.**, et al. 2010, *MNRAS*, 402, 46–64
64. ★ “Rise and fall of the X-ray flash 080330: an off-axis jet?”, Guidorzi, C., Clemens, S. Kobayashi, S., **Granot, J.**, and 30 other co-authors, 2009, *A&A*, 499, 439–453
65. ★ “Afterglow Observations Shed New Light on the Nature of X-ray Flashes”, **Granot, J.**, Ramirez-Ruiz, E., & Perna, R. 2005, **ApJ**, 630, 1003–1014
66. ★ “An Off-Axis Model for GRB 031203”, Ramirez-Ruiz, E., **Granot, J.**, Kouveliotou, C., Woosley, S. E., Patel, S. K., & Mazzali, P. A. 2005, **ApJL**, 625, L91–L94
67. ★ “The Detectability of Orphan Afterglows”, Nakar, E., Piran, T., & **Granot, J.** 2002, **ApJ**, 579, 699–705
68. ★ “Off-Axis Afterglow Emission from Jetted Gamma-Ray Bursts”, **Granot, J.**, Panaitescu, A., Kumar, P., & Woosley, S. E. 2002, **ApJ Lett.**, 570, L61–L64

Numerical Study of Relativistic Jets

69. ★ “The Evolution of a Structured Relativistic Jet and Gamma-Ray Burst Afterglow Light Curves”, Kumar, P., & **Granot, J.** 2003, **ApJ**, 591, 1075–1085
70. “The Jet Angular Profile and the Afterglow Light Curves”, **Granot, J.**, Kumar, P., & Piran, T. 2004, in “Gamma Ray Bursts in the Afterglow Era - 3rd Workshop”, ed. M. Feroci, F. Frontera, N. Masetti, & L. Piro (San Francisco: ASP), 312, p. 373
71. “Light Curves from an Expanding Relativistic Jet”, **Granot, J.**, Miller, M., Piran, T., Suen, W.M., & Hughes, P.A. 2001, in “Gamma-Ray Bursts in the Afterglow Era - 2nd Workshop”, ed. E. Costa, F. Frontera, & J. Hjorth (Berlin; Springer) p. 312
72. “Hydrodynamics and Radiation from a Relativistic Expanding Jet with Applications to GRB Afterglow”, **Granot, J.**, Miller, M., Piran, T., & Suen, W. M. 2000, *AIP Conf. Proc.* 526, 5th Huntsville Symposium on Gamma-Ray Bursts, ed. R. M. Kippen, R. S. Mallozzi & G. J. Fishman (New York: AIP), 534, p. 540

The GRB - Supernovae Connection

73. ★ “A mildly relativistic radio jet from the normal Type Ic Supernova 2007gr”, Paragi, Z., Taylor, G. B., Kouveliotou, C., **Granot, J.**, Ramirez-Ruiz, E., Bietenholz, M., van der Horst, A. J., Pidopryhora, Y., van Langevelde, H. J., Garrett, M. A. Szomoru, A., Argo, M., & Paczyński, B. 2010, **Nature**, 463, 516–518
74. ★ “SN 2001em: Not so Fast”, Schinzel, F. K., Taylor, G. B., Stockdale, C. J., **Granot, J.**, Ramirez-Ruiz, E. 2008, **ApJ**, 691, 1379–1385
75. ★ “Prompt and Afterglow Emission Properties of GRBs with Spectroscopically identified Supernovae”, Kaneko, Y., Ramirez-Ruiz, E., **Granot, J.**, Kouveliotou, C., Woosley, S. E., et al. 2007, **ApJ**, 654, 385–402
76. ★ “The Case for a Misaligned Relativistic Jet from SN 2001em”, **Granot, J.**, & Ramirez-Ruiz, E. 2004, **ApJ Lett.**, 609, L9–L12
77. ★ “Radio Imaging of GRB Jets in Nearby Supernovae”, **Granot, J.**, & Loeb, A. 2003, **ApJ Lett.**, 593, L81–L84

Detailed Study of GRB Afterglow Emission

78. ★ “Analytic Expressions for the Surface Brightness Profile of GRB Afterglow Images”, **Granot, J.** 2008, **MNRAS Lett.**, 390, L46–L50
79. ★ “Stirring the Embers: High Sensitivity VLBI Observations of GRB 030329”, Pihlström, Y. M., Taylor, G. B., **Granot, J.**, & Doeleman, S. 2007, **ApJ**, 664, 411–415
80. “Critical Review of Basic Afterglow Concepts”, short review for “070228: The Next Decade of Gamma-Ray Burst Afterglows”, Amsterdam, 2007 March 19-23, eds. Wijers, R.A.M.J., Kaper, L, and van Eerten, H.J. (Elsevier: Amsterdam)
81. ★ “Implications of the Measured Image Size for the Radio Afterglow of GRB 030329”, **Granot, J.**, Ramirez-Ruiz, E. & Loeb, A. 2005, **ApJ**, 618, 413–425
82. ★ “The Shape of Spectral Breaks in Gamma-Ray Burst Afterglows”, **Granot, J.**, & Sari, R. 2002, **ApJ**, 568, 820–829
83. ★ “The Synchrotron Spectrum of Fast Cooling Electrons Revisited”, **Granot, J.**, Piran, T., & Sari, R. 2000, **ApJ Lett.**, 534, L163–L166
84. ★ “Images, Light Curves and Spectra of GRB Afterglow”, **Granot, J.**, Piran, T., & Sari, R. 1999, **A&A**, Supl. Ser. 138, 541
85. ★ “Synchrotron Self Absorption in GRB Afterglow”, **Granot, J.**, Piran, T., & Sari, R., 1999, **ApJ**, 527, 236–246

86. ★ “Images and Spectra From the Interior of a Relativistic Fireball”,
Granot, J., Piran, T., & Sari, R. 1999, **ApJ**, 513, 679–689
87. ★ “The Bright Gamma-Ray Burst 991208 - Tight Constraints on Afterglow Models from Observations of the Early-Time Radio Evolution”, Galama, T. J., Bremer, M., Bertoldi, F., Menten, K. M., Lisenfeld, U., Shepherd, D. S., Mason, B., Walter, F., Pooley, G. G., Frail, D. A., Sari, R., Kulkarni, S. R., Berger, E., Bloom, J. S., Castro-Tirado, A. J., & **Granot, J.** 2000, **ApJ Lett.**, 541, L45–L49
88. “Some Recent Peculiarities of the Early Afterglow”, Piran, T., Nakar, E., & **Granot, J.** 2003, in the Proceedings of the Conference “30 Years of GRB Discovery”, Santa Fe, New Mexico, USA, September 8-12, 2003 (astro-ph/0312138)
89. “Theory of GRB Afterglow”, Piran, T., & **Granot, J.** 2001, in “Gamma-Ray Bursts in the Afterglow Era - 2nd Workshop”, ed. E. Costa, F. Frontera, & J. Hjorth (Berlin; Springer) p. 300

GRBs in Pulsar Wind Bubbles

90. ★ “Observational Implications of a Plerionic Environment for Gamma-Ray Bursts”, Guetta, D., & **Granot, J.** 2003, **MNRAS**, 340, 115–138
91. ★ “Gamma-Ray Burst Afterglows in Pulsar-Wind Bubbles”, Königl, A., & **Granot, J.** 2002, **ApJ**, 574, 134–154
92. “Gamma-Ray Bursts in Pulsar Wind Bubbles: Observational Implications”, Guetta, D., & **Granot, J.** 2003, in “Gamma-Ray Bursts in the Afterglow Era - 3rd Workshop”, ed. M. Feroci, F. Frontera, N. Masetti, & L. Piro (San Francisco: ASP), 312, p. 377