

## Jonathan Granot \_\_\_\_\_ Curriculum Vitae

Astrophysics Research Center of the Open university (ARCO; Head) & Department of Natural Sciences (Head of Physics), Open University of Israel, 1 University Road, Ra'anana 4353701, Israel  
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### EDUCATION \_\_\_\_\_

- 1998 – 2001    **Ph.D.** in Physics, Hebrew University of Jerusalem  
1996 – 1998    **M.Sc.** in Physics, Hebrew University of Jerusalem  
1993 – 1996    **B.Sc.** in Physics and Mathematics, Hebrew University of Jerusalem

### POSITIONS HELD \_\_\_\_\_

- 2017 –            Research Professor of Physics, George Washington University  
2016 –            Full Professor, Open University of Israel  
2012 – 2016      Associate Professor, Open University of Israel  
2008 – 2012      Reader in Astrophysics, University of Hertfordshire  
2007 – 2008      Principal Lecturer, University of Hertfordshire  
2004 – 2007      Research Associate, KIPAC, Stanford  
2001 – 2004      Member, Institute for Advanced Study (IAS), Princeton

### VISITING POSITIONS \_\_\_\_\_

- Long term:    2011 – 2012    Erskine Visiting Associate Professor, Hebrew University  
Short term:    2008, 09, 14    KIPAC, Stanford & University of California, Santa Cruz  
                    2006            Kavli Institute for Theoretical Physics, Santa Barbara  
                    2000            Kersten Visiting Fellow, University of Chicago

### HONORS, PRIZES, AWARDS \_\_\_\_\_

- 2011    HEAD AAS Rossi Prize to B. Atwood, P. Michelson & the Fermi LAT team  
2007    Royal Society Wolfson Research Merit Award (for 5 years;  
          significant salary enhancement + some research funds)  
2007    HEAD AAS Rossi Prize to Neil Gehrels and the Swift team  
2003    Keck Fellowship (Institute for Advanced Study, Princeton)  
2000    A 3 year Scholarship from the Horowitz foundation  
2000    The Giulio Racah prize for academic excellence  
1999    M.Sc. *cum laude* in Physics (Hebrew University)  
1997    B.Sc. *cum laude* in Physics and Mathematics (Hebrew Univ.)  
1995, 6    Dean's list of the Faculty of Mathematics and Natural Sciences

### RESEARCH INTERESTS \_\_\_\_\_

- High energy astrophysics; gamma-ray bursts; magnetars; gravitational lensing; high energy neutrinos; pulsar wind nebulae; relativistic fluid dynamics and MHD; structure of blast waves; dynamics of relativistic jets; tests of Lorentz invariance violation.

## SELECT ACADEMIC ACHIEVEMENTS \_\_\_\_\_

- ★ **192** papers published in refereed journals; **7** review articles; **2** book chapters
- ★ **>60** invited talks at conferences/meetings (and >60 colloquia/seminars)
- ★ **>17,000** (>23,000) citations, H-index of **66** (78); NASA/ADS (Google Scholar)

## ACADEMIC ADMINISTRATION POSITIONS \_\_\_\_\_

- Head of the Physics Program at the Open University of Israel (2017-)
- Head of the Astrophysics Research Center of the Open university (ARCO; 2023-)
- Head of the M.Sc. Program in Astrophysics at the Open University of Israel (2023-)

## PROFESSIONAL ACTIVITY \_\_\_\_\_

- Peer Review for: Nature, Science Magazine; Nature Astronomy; Nature Physics; Phys. Rev. (Letters; D; E); ApJ (Letters; main J.); MNRAS (Letters; main J.); Astron. & Astrophys.; Rep. Prog. Phys.; JHEAP; Adv. in Space Res.; Astroparticle Physics; PASJ; JCAP; Rev. Mex. A&A; ASTRA; IJMPCS; NJP; PASA
- Review of proposals for: NASA (+panel); NSF (+panel); ERC; DFG; European Science Foundation (ESF); US-Israel Binational Science Foundation (BSF); Israel Science Foundation (ISF); STFC; SNS; Aristeia; WHT; Gemini Observatory; GMRT
- Panel Member of Alon Scholarships (for Integration of Outstanding Faculty in Israel)
- Co-I in VLBA, VLA, VLT, EVN, WSRT, Chandra, Spitzer, and Hubble Space Telescope proposals, and PI of a VLBA proposal
- Chaired sessions or was a member of the SOC in many international conferences
- Member of the **Swift** Science Theory Team 2006–
- Affiliated Scientist with the **Fermi Large Area Telescope** collaboration 2007–
- Member of the **Cherenkov Telescope Array** Consortium 2008–

## SELECT PERSONAL RESEARCH FUNDING \_\_\_\_\_

- 2019–2023: ISF – NSFC joint research program (NIS 1,050,000)
- 2014–2019: Israel Science Foundation (ISF; with Yuri Lyubarsky;  $\frac{1}{2} \times$  NIS 1,030,000)
- 2007–2012: Royal Society Wolfson Research Merit Award (£ 18,000)
- 2007–2011: Marie Curie International Reintegration Grant (€ 100,000)

## POSTDOC SUPERVISION

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**Dr. Sk. Minhajur Rahaman:** 2022 – (PhD 2022 at NCRA-TIFR, Pune)

**Dr. Arthur Charlet:** 2022 – (PhD 2022 at ENS Lyon – Universite de Montpellier)

**Dr. Vikas Chand:** 2022 – (PhD 2019 at TIFR-Mumbai; 2020–2021 postdoc at Nanjing U.)

**Dr. Prasanta Bera:** 2021 – 2024 (PhD 2018 at JNU/IUCAA, Pune; 2018-2019 Visiting Fellow at NCRA-TIFR; 2019-2021 Research Fellow at U. of Southampton); In 2024 he started a **faculty position** as the Banaras Hindu University, Varanasi, India.

**Dr. Ramandeep Gill:** 2015 – 2021 (PhD 2012 at UBC, Vancouver; 2012-2015 postdoc at CITA, Toronto); In 2021 he started a **faculty position** at the Institute for Radio Astronomy and Astrophysics, UNAM, Mexico.

**Dr. Emanuele Sobacchi:** 2016 – 2019 (PhD 2016 at Scuola Normale Superiore in Pisa); after postdocs at Columbia University (2019 – 2022) and at the Hebrew University (2022 – 2024), in 2024 he started a **faculty position** at the Gran Sasso Science Institute, Italy.

**Dr. Frank Genet:** 2007 – 2009 (PhD 2007 at IAP, Paris)

### Research Assistants:

**Dr. Michael Rabinovich:** 2021 – (PhD 2020 at Bar Ilan University)

## INVITED TALKS

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63. “Relativistic Accelerators: Gamma-Ray Bursts”, invited review talk at the conference “PASTO - Particle Acceleration in Astrophysical Objects”, September 7, 2022, Frascati, Rome, Italy
62. “Gamma-Ray Burst Polarization: Status and Perspectives”, invited review talk at the conference “Astrophysical Polarimetry in the Time-Domain Era”, September 1, 2022, Lecco, Italy
61. “GRB Jets from Compact Binary Mergers in the Era of Gravitational Wave Astronomy”, invited talk at the conference “Astrophysics in the Next Decade: From the First Stars to Intelligent Life”, a meeting in celebration of Avi Loeb’s 60th birthday, June 7, 2022, Martha’s Vineyard, MA, USA
60. “Binary neutron star mergers - insights from multi-messenger observations”, invited review talk at the conference “Growing Black Holes: Accretion and Mergers”, May 18, 2022, Kathmandu, Nepal
59. “High-Energy Emission from GRBs: Theoretical Perspectives”, invited talk at the 16<sup>th</sup> Marcel Grossmann meeting (MG16), July 7, 2021, Online

COVID-19 PANDEMIC (HARDLY ANY INTERNATIONAL CONFERENCES)

58. “Polarization in Gamma-Ray Bursts”, invited talk at workshop to bring together experts on High Energy Astrophysics from Japan and Israel, 22 July 2019, RIKEN, Kobe, Hyogo, Japan
57. “Polarization in Gamma-Ray Bursts”, invited talk at the conference “Gamma-Ray Bursts and Related Astrophysics in Multi-Messenger Era”, May 13, 2019, Nanjing, China
56. “Lessons from GW170817 / GRB170817A”, invited talk at the workshop “Multi-Wavelength Survey and Time-Domain Astronomy” May 10, 2019, Shanghai, China
55. “GRB Afterglow Polarization and GRB170817A / GW170817”, invited talk at the workshop “Shedding New Light on Gamma-Ray Bursts with Polarization Data”, November 28, 2018, Geneva, Switzerland
54. “Lessons from GW170817 / GRB170817A”, invited plenary talk at the conference “Exploring the Universe: Near Earth Space Science to Extra-Galactic Astronomy” (a tribute to S. N. Bose’s 125th birth anniversary), Nov.15, 2018, Kolkata, India
53. “GeV Emission from GRBs: New Perspectives from *Fermi*”, invited talk at the 15<sup>th</sup> Marcel Grossmann meeting (MG15), July 6, 2018, Rome, Italy
52. “The Bright and the Slow – GRBs 100724B & 160509A with high-energy cutoffs at  $\lesssim 100$  MeV”, invited talk at the 15<sup>th</sup> Marcel Grossmann meeting (MG15), given on behalf of Dr. Giacomo Vianello, July 2, 2018, Rome, Italy
51. “Lessons from GW170817/GRB170817A”, invited talk at the 3<sup>rd</sup> PANDA Symposium on Time Domain Astronomy & 1<sup>st</sup> results from Insight-HXMT; June 19, 2018, Chengdu, China
50. “Magnetic Fields in Gamma-Ray Bursts”, invited review talk at the conference “Deciphering the Violent Universe”, December 14, 2017, Playa del Carmen, Mexico
49. “Late Time GRB Radio Emission: Calorimetry & Identifying Orphan Afterglows”, “Radio Emission from NS-NS/BH Mergers”, invited talks at the 3rd Capitol Chats, on “Where are all the radio transients and what are they?”, August 16-18, 2017, GWU, Washington DC, USA
48. “GRB Prompt Emission Physics”, “Prompt GRB Emission: Spectra & Polarization”, invited talks at the Workshop on Gamma-Ray Bursts: Prompt to Afterglow, July 4-7, 2017 NCRA-TIFR, Pune, Maharashtra, India
47. “Lessons from the First Magnetar Wind Nebula”, invited talk at the High Energy Astrophysics Workshop, February 28, 2017, Jerusalem, Israel

46. “Magnetar Wind Nebula around Swift J1834.9-0854 – evidence for energy injection well above the spin-down power”, “Emission and Detectability of Magnetar Wind Nebulae”, “Evolution of Magnetars”, invited talks at the 2<sup>nd</sup> Capitol Chats, on “Magnetars, what are they? ”, July 13–15, 2016, GWU, Washington DC, USA
45. “Bounds on Lorentz Invariance Violation from Fermi GRBs”, review talk at the 17<sup>th</sup> Lomonosov Conference on Elementary Particle Physics, 22/8/15, Moscow, Russia
44. “Jet in Star”, “Magnetic acceleration of GRB jets”, “GRB130427A: evidence for genuine violation of  $E_{\text{syn,max}}$ ”, at *The 1<sup>st</sup> Capitol Chat, on “GRBs and their prompt emission radiation mechanism”*, June 8–10, 2015, GWU, Washington DC, USA
43. “Gamma-Ray Bursts in the Fermi Era”, plenary review talk at the 5<sup>th</sup> Fermi Symposium, October 23, 2014, Nagoya, Japan
42. “Experimental Bounds on Quantum Gravity from Fermi GRB Observations”, review talk at “Experimental search for quantum gravity”, 3/9/14, SISSA, Trieste, Italy
41. “Jet acceleration, collimation and Stability”, at *The Strongest Magnetic Fields in the Universe*, Feb. 6, 2014, International Space Science Institute, Bern, Switzerland
40. “GRB Jet Dynamics”, invited review talk at *Future Directions of Relativistic Jets*, 31/8/2013, Skokloster, Sweden
39. “Searches for Quantum Gravity Signals using Gamma-Ray Bursts” invited talk at the conference *LOOPS 13*, July 23, 2013, Perimeter Institute, Waterloo, Canada
38. “GRB Jets: a Theoretical Review”, invited review talk at the workshop *Locating Astrophysical Transients*, May 15, 2013, Lorentz Center, Leiden, The Netherlands
37. “GRB Prompt Emission Mechanism: Implications of Fermi Observations”, invited talk at the 13<sup>th</sup> HEAD meeting, April 10, 2013, Monterey, California, USA
36. “Constraining Quantum Gravity with GRBs”, at *Experimental Search for Quantum Gravity: the hard facts*, October 24/10/12, Perimeter Institute, Waterloo, Canada
35. “GRB Jet Dynamics: Analytic Models and Numerical Simulations”, invited talk at the *Fall 2012 Gamma-Ray Burst Symposium*, 9/10/12, Marbella, Malaga, Spain
34. “Magnetic Field Decay in Magnetars and implications for evolutionary links”, invited talk at the 39<sup>th</sup> COSPAR Scientific Assembly, July 19, 2012, Mysore, India
33. “GRB Jet Dynamics and Afterglow Lightcurves”, invited talk at the 13<sup>th</sup> Marcel Grossmann meeting (MG13), July 6, 2012, Stockholm, Sweden
32. “Magnetized Relativistic Outflows: effects of strong time dependence”, invited talk at the 13<sup>th</sup> Marcel Grossmann meeting (MG13), July 5, 2012, Stockholm, Sweden

31. “GRBs: Current Status & Future Prospects”, review talk at the International Conference on Astrophysics & Cosmology (ICAC2012), 20/3/12, Kathmandu, Nepal
30. “What we could learn from Cherenkov Telescope Array observations of GRBs”, invited talk at the 12<sup>th</sup> HEAD meeting, 7/9/11, Newport, Rhode Island, USA
29. “Constraints on Lorentz Invariance Violation from Fermi”, invited talk at the *First LINK Workshop: Probing physics beyond the Standard Model with CTA*, November 12, 2010, Oxford, UK
28. “GRB theory in the Fermi Era”, invited talk at the conference *Accretion and Outflow in Black Hole Systems*, October 15, 2010, Kathmandu, Nepal
27. “Current Status and Future Prospects of GRB Science”, invited review talk at the RAS special discussion meeting *Explosive Transients*, June 18, 2010, Liverpool, UK
26. “Limits on Lorentz Invariance Violation from Fermi GRBs”, invited talk at the meeting *Fundamental Physics Laws: Lorentz Symmetry and Quantum Gravity*, June 2, 2010, Paris, France
25. “Highlights from Fermi GRB observations”, invited review talk at the Royal Astronomical Society *NAM 2010* meeting, April 14, 2010, Glasgow, Scotland
24. “Highlights from Fermi Gamma-Ray Space Telescope observations of GRBs”, invited talk at the “April” 2010 Meeting of the APS, 14/2/10, Washington, DC
23. “High-Energy Fermi GRBs, Long and Short”, invited talk at the 215<sup>th</sup> meeting of the American Astronomical Society, January 4, 2010, Washington, DC, USA
22. “Some Implications of Fermi High-Energy GRB Observations”, invited talk at the meeting *The Shocking Universe*, September 15, 2009, San Servolo, Venice, Italy
21. “GRB High-Energy Emission: First Year Highlights from Fermi”, invited talk at *Particle Acceleration in Astrophysical Plasmas*, 17/8/09, KITP, Santa Barbara, CA
20. “Similarities and Differences between Fermi GRB 080825C and AGILE GRB 080514B”, invited talk at the 6<sup>th</sup> Science AGILE Workshop, April 23, 2009, Milan, Italy
19. “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
18. “GRB Theory in the Fermi Era”, invited talk at the 44<sup>th</sup> Rencontres de Moriond on *Very High Energy Phenomena in the Universe*, February 2, 2009, La Thuile, Italy
17. “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
16. “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

15. “Critical Review of Basic Afterglow Concepts”, invited review talk at the conference *070228: The Next Decade of GRB Afterglows*, 21/3/07, Amsterdam, The Netherlands
14. “Theory of GRB Afterglows”, invited talk at the conference *Circumstellar Media and Late Stages of Massive Stellar Evolution*, September 7, 2006, Ensenada, Mexico
13. “Structure and Dynamics of GRB Jets”, invited talk at the conference *Challenges in Relativistic Jets*, June 27, 2006, Cracow, Poland
12. “Magnetar-GRB Connection & SGR 1806-20 Giant Flare”, invited talk at the workshop *The Multicoloured Landscape of Compact Objects and their Explosive Origins*, June 13, 2006, Cefalu, Sicily, Italy
11. “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
10. “GRB Jet Propagation Outside the Progenitor”, invited talk at the conference “Supernova and GRB Remnants”, Feb. 6, 2006, KITP, Santa Barbara, CA, USA
9. “Probing the Magnetic Field Structure in GRBs via Polarization Measurements” invited talk at the mini-conference on “Astrophysical Explosions: from Engines to Remnants”, 47th Annual Meeting of DPP, APS, Oct. 25, 2005, Denver, CO, USA
8. “Physics of GRB Jets”, invited lecture at the summer school “Gamma-Ray Bursts: the First Three Hours”, August 31, 2005, Santorini, Greece
7. “Electromagnetic Models of Gamma-Ray Bursts: A Tutorial”, invited lecture at the summer school “Gamma-Ray Bursts: the First Three Hours”, given on behalf of Prof. Roger Blandford, August 29, 2005, Santorini, Greece
6. “The Structure and Dynamics of GRB Jets”, invited talk at the program *Physics of Astrophysical Outflows and Accretion Disks*, 12/3/05, KITP, Santa Barbara, CA
5. “Jets in Gamma-Ray Bursts”, invited talk at the conference “Triggering Relativistic Jets”, April 1, 2005, Cozumel, Mexico
4. “Radio Flares and the Magnetic Field Structure in GRB Outflows”, invited talk at the 22<sup>nd</sup> Texas Symposium on Relativistic Astrophysics, December 15, 2004, Stanford University, CA, USA
3. “X-ray and Gamma-Ray Polarization in Gamma-Ray Bursts”, invited talk at the workshop “X-ray Polarimetry”, February 10, 2004, SLAC, Stanford, CA, USA
2. “Some Theoretical Implications of Recent GRB Observations”, invited talk at the 10<sup>th</sup> Marcel Grossmann meeting on general relativity, 25/7/03, Rio de Janeiro, Brazil
1. “GRB Jets and Orphan Afterglows”, invited talk in “Gamma Ray Bursts: the Brightest Explosions in the Universe” the Second Harvard-Smithsonian Conference on Theoretical Astrophysics, May 22, 2002, Cambridge, MA, USA

## REFEREED PUBLICATIONS

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192. “Fires in the deep: The luminosity distribution of early-time gamma-ray burst afterglows in light of the Gamow Explorer sensitivity requirements”,  
Kann, D. A., et al. (Granot is author 33 of 61) 2024, *A&A*, **686**, A56 (43 pages)
191. “Prompt gamma-ray burst emission from internal shocks - new insights”,  
Rahaman, S. M., **Granot, J.** & Beniamini, P. 2024, *MNRAS Lett.*, **528**, L45–L51
190. “Internal shocks hydrodynamics: the collision of two cold shells in detail”,  
Rahaman, S. M., **Granot, J.** & Beniamini, P. 2024, *MNRAS*, **528**, 160–179
189. “Prompt GRB polarization from non-axisymmetric jets”,  
Gill, R. & **Granot, J.** 2024, *MNRAS*, **527**, 12178–12195
188. “Relativistic shock reflection using integral conservation laws”,  
**Granot, J.** & Rabinovich, M. 2024, *Physics of Fluids*, 36, 016142 (15 pages)
187. “A numerical study of relativistic oblique shock reflection”,  
Bera, P., **Granot, J.**, Rabinovich, M. & Beniamini, P. 2024,  
*Physics of Fluids*, 36, 016141 (14 pages)
186. “Photometric redshift estimation for gamma-ray bursts from the early Universe”,  
Fausey, H. M., et al. (Granot is author 18 of 19) 2023, *MNRAS*, **526**, 5599–4612
185. “The Swift Deep Galactic Plane Survey (DGPS) Phase I Catalog”,  
O’Connor, B., et al. (Granot is author 16 of 33) 2023, *ApJS*, 269, 49 (20 pages)
184. “Gamma rays from a reverse shock with turbulent magnetic fields in GRB 180720B”,  
Arimoto, M., et al. (Granot is author 6 of 17), 2024, *Nature Astronomy*, 8, 134–144
183. “Swift Deep Galactic Plane Survey classification of Swift J170800–402551.8  
as a candidate intermediate polar cataclysmic variable”,  
O’Connor, B., et al. (Granot author 16 of 27) 2023, *MNRAS*, **525**, 5015–5024
182. “Identification of 1RXS J165424.6–433758 as a Polar Cataclysmic Variable”,  
O’Connor, B., et al. (Granot is author 16 of 28) 2023, *ApJ*, **957**, 89 (16 pages)
181. “GRB 221009A afterglow from a shallow angular structured jet”,  
Gill, R. & **Granot, J.** 2023, *MNRAS Lett.*, **524**, L78–L83
180. “Sensitivity of the Cherenkov Telescope Array to TeV photon emission from the Large  
Magellanic Cloud”, The CTA Consortium, 2023, *MNRAS*, **523**, 5353–5387
179. “Fermi-GBM Discovery of GRB 221009A: An Extraordinarily Bright GRB from Onset  
to Afterglow”, Lesage, S., et al. (The Fermi GBM and Fermi LAT Collaboration) 2023,  
*ApJ Lett.*, **952**, L42 (20 pages)
178. “A structured jet explains the extreme GRB 221009A”, O’Connor, B., et al.  
(Granot is author 6 of 32) 2023, *Science Advances*, 9, 1405 (13 pages)



177. “Robust features of off-axis gamma-ray burst afterglow light curves”,  
Beniamini, P., Gill, R. & **Granot, J.** 2022, MNRAS, **515**, 555–570
176. “Gamma-Ray Bursts at TeV Energies: Theoretical Considerations”,  
Gill, R., & **Granot, J.** 2022, Galaxies, **10**, 74 (34 pages)
175. “Identification of an X-Ray Pulsar in the BeXRB System IGR J18219–1347”,  
O’Connor, B., et al. 2022, ApJ, **927**, 1390 (13 pages)
174. “Swift/XRT Deep Galactic Plane Survey Discovery of a New Intermediate Polar Cataclysmic Variable, Swift J183920.1–045350”,  
Gorgone, N. M., et al. 2021, ApJ, **923**, 243 (13 pages)
173. “GRB Polarization: A Unique Probe of GRB Physics”,  
Gill, R., Kole, M., & **Granot, J.** 2021, invited review paper in the special issue  
“Gamma-Ray Burst Science in 2030”, Galaxies, **9**, 82 (64 pages)
172. “Temporal evolution of prompt GRB polarization”,  
Gill, R., & **Granot, J.** 2021, MNRAS, 504, 1939–1958
171. “Sensitivity of the Cherenkov Telescope Array for probing cosmology and fundamental physics with gamma-ray propagation”,  
The CTA Consortium (499 authors), 2021, JCAP, 02, 048 (66 pages)
170. “Modeling the Prompt Optical Emission of GRB 180325A: The Evolution of a Spike from the Optical to Gamma Rays”,  
Becerra, R. L., et al (Granot is author 6 of 20), 2021, ApJ, **908**, 39 (11 pages)
169. “High-energy emission from a magnetar giant flare in the Sculptor galaxy”,  
The Fermi-LAT Collaboration (109 authors), 2021, **Nature Astronomy**, 5, 385–391
168. “Sensitivity of the Cherenkov Telescope Array to a dark matter signal from the Galactic centre”, The CTA Consortium (450 authors), 2021, JCAP, 01, 057 (64 pages)
167. “GRB spectrum from gradual dissipation in a magnetized outflow”,  
Gill, R., **Granot, J.**, & Beniamini, P. 2020, MNRAS, **499**, 1356–1372
166. “Spectral modification of magnetar flares by resonant cyclotron scattering”,  
Yamasaki, S., Lyubarsky, Y., **Granot, J.**, & Göğüs, E. 2020, MNRAS, **498**, 484–494
165. “Afterglow light curves from misaligned structured jets”,  
Beniamini, P., **Granot, J.**, & Gill, R. 2020, MNRAS, **493**, 3521–3534
164. “Constraining the magnetic field structure in collisionless relativistic shocks with a radio afterglow polarization upper limit in GW 170817”,  
Gill, R., & **Granot, J.**, 2020, MNRAS, **491**, 5815–5825
163. “Fermi and Swift Observations of GRB 190114C: Tracing the Evolution of High-energy Emission from Prompt to Afterglow”, Ajello, M., et al. 2020, ApJ, **890**, 9 (19 pages)

162. “Linear polarization in gamma-ray burst prompt emission”,  
Gill, R., **Granot, J.**, & Kumar, P. 2020, MNRAS, **491**, 3343–3373
161. “Observation of inverse Compton emission from a long  $\gamma$ -ray burst”,  
MAGIC collaboration and external authors, 2019, **Nature**, 575, 459–463
160. “Discovery and Identification of MAXI J1621-501 as a Type I X-Ray Burster with a Super-orbital Period”,  
Gorgone, N. M., et al. 2019, ApJ, **884**, 168 (19 pages)
159. “Numerical Simulations of an Initially Top-hat Jet and the Afterglow of GW170817 / GRB170817A”,  
Gill, R., **Granot, J.**, De Colle, F., & Urrutia, G. 2019, ApJ, **883**, 15 (8 pages)
158. “Monte Carlo studies for the optimisation of the Cherenkov Telescope Array layout”,  
The CTA Consortium (470 authors), 2017, APh, **111**, 35–53
157. “ALMA Detection of a Linearly Polarized Reverse Shock in GRB 190114C”,  
Laskar, T., Alexander, K. D., Gill, R., **Granot, J.**, et al. (14 authros) 2019, ApJ, **878**, L26 (8 pages)
156. “Observatory science with eXTP”, in’t Zand, et al. (184 authros) 2019, SCPMA, **62**, 029506 (42 pages)
155. “Off-axis afterglow light curves and images from 2D hydro-simulations of double-sided GRB jets in a stratified external medium”,  
**Granot, J.**, De Colle, F., & Ramirez-Ruiz, E. 2018, MNRAS, **481**, 2711–2720
154. “Off-axis emission of short GRB jets from double neutron star mergers and GRB 170817A”,  
**Granot, J.**, Gill, R., Guetta, D., & De Colle, F. 2018, MNRAS, **481**, 1597–1608
153. “The Bright and the Slow – GRBs 100724B and 160509A with High-energy Cutoffs at  $\leq 100$  MeV”,  
Vianello, G., Gill, R., **Granot, J.**, Omodei, N., Cohen-Tanugi, J., & Longo, F. 2018, ApJ, **864**, 163 (26 pp.)
152. “Afterglow imaging and polarization of misaligned structured GRB jets and cocoons: breaking the degeneracy in GRB 170817A”,  
Gill, R., & **Granot, J.** 2018, MNRAS, **478**, 4128–4141
151. “Fermi-LAT Observations of LIGO/Virgo Event GW170817”,  
Ajello, M., et al. (136 authors in alphabetical order), 2018, ApJ, **861**, 85 (10 pages)
150. “The effect of pair cascades on the high-energy spectral cut-off in gamma-ray bursts”,  
Gill, R., & **Granot, J.** 2018, MNRAS Lett., **475**, L1–L5
149. “2D Relativistic MHD simulations of the Kruskal-Schwarzschild instability in a relativistic striped wind”,

- Gill, R., , **Granot, J.**, & Lyubarsky, Y. 2018, MNRAS, , **474**, 3535–3546
148. “The Sleeping Monster: NuSTAR Observations of SGR 1806-20, 11 years after the Giant Flare”, Younes, G.; Baring, M.; Kouveliotou, C.; et al. (J. Granot 8th author), 2017, ApJ, **851**, 17 (8 pages)
147. “Lessons from the Short GRB 170817A: The First Gravitational-wave Detection of a Binary Neutron Star Merger”, **Granot, J.**, Guetta, D., & Gill, R. 2017, ApJ Lett., **850**, L24 (5 pages)
146. “A common central engine for long gamma-ray bursts and Type Ib/c supernovae”, Sobacchi, E., **Granot, J.**, Bromberg, O., & Sormani, M. C. 2017, MNRAS, **472**, 616–627
145. “The High-frequency Radio Emission of the Galactic Center Magnetar SGR J1745-29 during a Transitional Period”, Gelfand, J. D., et al. (J. Granot author 4 out of 9), 2017, ApJ, **850**, 53 (7 pages)
144. “X-Ray and Radio Observations of the Magnetar SGR J1935+2154 during Its 2014, 2015, and 2016 Outbursts”, Younes, G. A., et al. (J. Granot author 11 out of 13), 2017, ApJ, **847**, 85 (15 pages)
143. “Prospects for Cherenkov Telescope Array Observations of the Young Supernova Remnant RX J1713.7-3946”, The CTA Consortium (382 authors), 2017, ApJ, **840**, 74 (14 pages)
142. “Learning about the Magnetar Swift J1834.9–0846 from its Wind Nebula”, **Granot, J.**, Gill, R., Younes, G. A., Gelfand, J., Harding, A., Kouveliotou, C., Baring, M. G. 2017, MNRAS, **464**, 4895–4926
141. “Searching the Gamma-Ray Sky for Counterparts to Gravitational Wave Sources: Fermi GBM and LAT Observations of LVT151012 and GW151226”, Racusin, J. L., et al. 2017, ApJ, **835**, 82 (13 pages)
140. “Burst and Outburst Characteristics of Magnetar 4U 0142+61”, Göğüs, E., et al. (J. Granot author 7 out of 13), 2017, ApJ, **835**, 68 (8 pages)
139. “Detection of Very Low-frequency, Quasi-periodic Oscillations in the 2015 Outburst of V404 Cygni”, Huppenkothen, D., et al. (J. Granot author 11 out of 15), 2017, ApJ, **834**, 90 (17 pages)
138. “A unified model for GRB prompt emission from optical to  $\gamma$ -rays; exploring GRBs as standard candles”, Guiriec, S., Kouveliotou, C., Hartmann, D. H., **Granot, J.**, et al. 2016, ApJ Lett., **831**, L8 (6 pages)
137. “Properties of GRB Lightcurves from Magnetic Reconnection”, Beniamini, P., & **Granot, J.** 2016, MNRAS, **459**, 3635–3658
136. “The Wind Nebula around Magnetar Swift J1834.9–0846”, Younes, G. A., Kouveliotou,

- C.; Kargaltzev, O.; Gill, R.; **Granot, J.**, et al. 2016, ApJ, **824**, 138 (12 pages)
135. “Fermi-LAT Observations of the LIGO Event GW150914”, Ackermann, M., et al. (167 authors in alphabetical order), 2016, ApJ Lett., **823**, L2 (13 pages)
134. “GRBs from Magnetic Reconnection: Variability and Robustness of Lightcurves”, **Granot, J.** 2016, ApJ Lett., **816**, L20 (6 pages)
133. “Gamma-Ray Bursts as sources of Strong Magnetic Fields”, **Granot, J.**, Piran, T., Bromberg, O., Racusin, J., & Daigne, F. 2015, Space Science Reviews, **191**, 471–518
132. “On the composition of GRBs’ Collapsar jets”, Bromberg, O., **Granot, J.**, & Piran, T. 2015, MNRAS, **450**, 1077–1084
131. “The Five Year Fermi/GBM Magnetar Burst Catalog”, Collazzi, A. C., et al. (J. Granot author 7 out of 21), 2015, ApJS, **218**, 11 (30 pages)
130. “A Planck-scale limit on spacetime fuzziness and stochastic Lorentz invariance violation”, Vasileiou, V., **Granot, J.**, Piran, T., & Amelino-Camelia, G. 2015, **Nature Physics**, 11, 344–346
129. “A comprehensive radio view of the extremely bright gamma-ray burst 130427A”, van der Horst, A. J., et al. (J. Granot author 4 out of 14), 2014, MNRAS, **444**, 3151–3163
128. “The dynamics of a highly magnetized jet propagating inside a star”, Bromberg, O., **Granot, J.**, Lyubarsky, Y., & Piran, T. 2014, MNRAS, **443**, 1532–1548
127. “Quasi-periodic Oscillations in Short Recurring Bursts of the Soft Gamma Repeater J1550-5418”, Huppenkothen, D., et al. (J. Granot author 10 out of 14), 2014, ApJ, **787**, 128 (13 pages)
126. “Radio limits on off-axis GRB afterglows and VLBI observations of SN 2003gk”, Bietenholz, M. F., De Colle, F., **Granot, J.**, Bartel, N., & Soderberg, A. M. 2014, MNRAS, **440**, 821–832
125. “Lorentz invariance violation: The latest Fermi results and the GRB/ AGN complementarity”, Bolmont, J., et al. (J. Granot author 6 out of 9), 2014, NIMPA, **742**, 165–168
124. “Time Resolved Spectroscopy of SGR J1550–5418 Bursts Detected with Fermi/Gamma-Ray Burst Monitor”, Younes, G., et al. (J. Granot author 5 out of 21), 2014, ApJ, **785**, 52 (11 pages)
123. “GRB Jets and their Radio Observations”, **Granot, J.** & van der Horst, A. J. 2014, PASA, **31**, 8 (35 pages)

122. “The First Pulse of the Extremely Bright GRB130427A: A Test Lab for Synchrotron Shocks”,  
Preece, R., et al. (159 authors mostly in alphabetical order) 2014, **Science**, 343, 51–54
121. “Fermi-LAT Observations of the Gamma-ray Burst GRB130427A”,  
Ackermann, M., et al. (182 authors in alphabetical order), 2014, **Science**, 343, 42–47
120. “NuSTAR Observations of GRB 130427A Establish a Single Component Synchrotron Afterglow Origin for the Late Optical to Multi-GeV Emission”,  
Kouveliotou, C., **Granot, J.**, Racusin, J. L., et al. 2013, *ApJ Lett.*, **779**, L1 (6 pages)
119. “Broad-band Monitoring Tracing the Evolution of the Jet and Disc in the Black Hole Candidate X-ray Binary MAXI J1659–152”, van der Horst, A. J., et al. (Granot author 19 of 34), 2013, *MNRAS*, **436**, 2625 (14 pages)
118. “The First Fermi-LAT Gamma-Ray Burst Catalog”, Ackermann, M., et al. 2013, *ApJS*, **209**, 11 (90 pages)
117. “Constraints on Lorentz Invariance Violation from Fermi/LAT Observations of GRBs”,  
Vasileiou, V., Jacholkowska, J., Piron, F., Bolmont, J., Couturier, C., **Granot, J.**,  
Stecker, F. W., Cohen-Tanugi, J., & Longo, F. 2013, *PRD*, 87, 122001 (31 pages)
116. “Introducing the CTA concept”, Acharya, B. S., et al. (the CTA consortium) 2013, *APh*, **43**, 3–18
115. “Gamma-ray burst science in the era of the Cherenkov Telescope Array”, Inoue, S.,  
**Granot, J.**, O’Brien, P., et al. 2013, *Astroparticle Physics*, **43**, 252–275 (review for  
special issue)
114. “Gamma-Ray Burst Jet Dynamics”,  
**Granot, J.** 2013, invited review for the Fall 2012 GRB Symposium, held in Marbella,  
Spain; *EAS Publication Series*, **61**, 141–152
113. “Quasi-Periodic Oscillations and broadband variability in short magnetar bursts”,  
Huppenkothen, D., Watts, A. L., Uttley, P., van der Horst, A., van der Klis, M.,  
Kouveliotou, C., Göğüs, E., **Granot, J.**, Vaughan, S., & Finger, M. H. 2013, *ApJ*,  
**768**, 87 (25 pages)
112. “New Fermi-LAT Event Reconstruction reveals More High-Energy Gamma-Rays from  
GRBs”, Atwood, W.B., et al. (17 authors in alphabetical order; J. Granot is a contact  
author), 2013, *ApJ*, **774**, 76 (6 pages)
111. “Multiwavelength observations of GRB 110731A: GeV emission from onset to after-  
glow”, The Fermi LAT and Fermi GBM Collaborations (162 authors in alphabetical  
order), 2013, *ApJ*, **763**, 71 (19 pages)
110. “The shortest orbital period black hole binary revealed by Very Long Baseline Inter-  
ferometry”,

- Paragi, Z., et al. (J. Granot author 7 out of 10) 2013, MNRAS, **432**, 1319–1329
109. “VLBI and Archival VLA and WSRT Observations of the GRB 030329 Radio Afterglow”, Mesler, R. A., Pihlström, Y. M., Taylor, G. B., & **Granot, J.** 2012, ApJ, 759, 4 (6 pages)
108. “Constraints on the emission model of the “Naked-Eye Burst” GRB080319B”, Abdo, A. A., et al. (J. Granot author 13 out of 33; alphabetical order) 2012, ApJ Lett., **753**, L31 (5 pages)
107. “Detection of spectral evolution in the bursts emitted during the 2008-2009 active episode of SGR J1550-5418”, von Kienlin, A., et al. (J. Granot author 3 out of 18) 2012, ApJ, **755**, 150 (11 pages)
106. “Broadband Spectra of SGR J1550-5418 Bursts”, Lin, L., et al. (J. Granot author 4 out of 12), 2012, ApJ, **756**, 54 (12 pp.)
105. “Constraining the High-Energy Emission from Gamma-ray Bursts with Fermi”, The Fermi LAT and GBM Collaborations (140 authors in alphabetical order), 2012, ApJ, **754**, 121 (20 pages)
104. “Scaling relations between numerical simulations and physical systems they represent”, **Granot, J.** 2012, MNRAS, **421**, 2610–2615
103. “On the lateral expansion of GRB jets”, **Granot, J.** & Piran, T. 2012, MNRAS, **421**, 570–587
102. “Simulations of GRB Dynamics in a Stratified External Medium: Afterglow Lightcurves, Jet Breaks, Radio Calorimetry”, De Colle, F., et al. (Granot author 3 out of 4), 2012, ApJ, **751**, 57 (14 pages)
101. “Effects of sub-shells in highly magnetized relativistic flows”, **Granot, J.** 2012, MNRAS, **421**, 2467–2477
100. “Interaction of a highly magnetized impulsive relativistic flow with an external medium”, **Granot, J.** 2012, MNRAS, **421**, 2442–2466
99. “Magnetic Field Decay in Neutron Stars: from SGRs to Weak Field Magnetars”, Dall’Osso, S., **Granot, J.**, & Piran, T. 2012, MNRAS, **422**, 2878–2903
98. “Jets and gamma-ray burst unification schemes”, **Granot, J.**, & Ramirez-Ruiz, E. 2012, chapter 11 (p. 215–250) in the book “Gamma-ray bursts”, Ed.: C. Kouveliotou, S. E. Woosley, & R. A. M. J. Wijers, CUP
97. “GRB Dynamics and Afterglow Radiation from AMR, Special Relativistic Hydrodynamic Simulations”, De Colle, F., **Granot, J.**, Lopez-Camara, D., & Ramirez-Ruiz, E. 2012, ApJ, **746**, 122 (18 pages)
96. “SGR J1550-5418 Bursts Detected with the Fermi Gamma-Ray Burst Monitor during

- its Most Prolific Activity”, van der Horst, A. J., et al. (J. Granot author 8 of 35), 2012, *ApJ*, **749**, 122 (12 pages)
95. “Design concepts for the Cherenkov Telescope Array: an advanced facility for ground-based high-energy gamma-ray astronomy”, CTA Consortium (672 authors, alphabetic), 2011, *Exp. Astr.*, **32**, 193–316
  94. “Burst and Persistent Emission Properties during the Recent Active Episode of the Anomalous X-ray Pulsar 1E 1841-045”, Lin, L., et al. (J. Granot author 15 out of 22), 2011, *ApJ Lett.*, **740**, L16 (6 pages)
  93. “Fermi/GBM Obs. of SGRJ0501+4516 Bursts”, Lin, L., et al., (J. Granot author 10 out of 30), 2011, *ApJ*, **739**, 87 (16 pages)
  92. “X-ray flare candidates in short GRBs”, Margutti, R., et al. (J. Granot author 3 out of 10), 2011, *MNRAS*, **417**, 2144–2160
  91. “Detection of High-Energy Emission during the X-ray Flaring Activity in GRB 100728A”, The Fermi LAT & GBM collaborations (142 authors, alphabetically), 2011, *ApJ Lett.*, **734**, L27 (6 pages)
  90. “The missing link: Merging neutron stars naturally produce jet-like structures and can power short GRBs”, Rezzolla, L., et al. (J. Granot author 4 out of 6), 2011, *ApJ Lett.*, **732**, L6 (6 pages)
  89. “Detailed radio view on two stellar explosions: XRF 080109 / SN 2008D and SN 2007uy in NGC 2770”, van der Horst, A. J., et al. (J. Granot author 8 out of 19), 2011, *ApJ*, **726**, 99–110
  88. “Impulsive Acceleration of Strongly Magnetized Relativistic Flows”, **Granot, J.**, Komissarov, S. S., & Spitkovsky, A. 2011, *MNRAS*, **411**, 1323–1353
  87. “Detection of a Spectral Break in the Extra Hard Component of GRB 090926A”, The Fermi LAT and GBM Collaborations (199 authors in alphabetical order), 2011, *ApJ*, **729**, 114 (12 pages)
  86. “Fermi Large Area Telescope Constraints on the gamma-ray Opacity of the Universe”, The Fermi LAT Collaboration (193 authors in alphabetical order), 2010, *ApJ*, **723**, 1082–1096
  85. “Fermi observations of high-energy gamma-ray emission from GRB 090217A”, The Fermi LAT & GBM Collaborations (199 authors in alphabetical order), 2010, *ApJ Lett.*, **717**, L127–L132
  84. “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 and Fermi GBM Collaborations (J. Granot is a contact author; 179 authors, alphabetical), 2010, *ApJ*, **716**, 1178–1190

83. “Discovery of a new Soft Gamma Repeater: SGR J0418+5729”, van der Horst, A. J., et al. (J. Granot author 8 out of 34), 2010, ApJ Lett., **711**, L1–L6
82. “Magnetar Twists: Fermi/Gamma-ray Burst Monitor (GBM) detection of SGR J1550-5418”, Kaneko, Y., et al. (J. Granot author 4 out of 15), 2010, ApJ, **710**, 1335–1342
81. “A mildly relativistic radio jet from the normal Type Ic Supernova 2007gr”, Paragi, Z., et al. (J. Granot author 4 out of 14), 2010, **Nature**, 463, 516–518
80. “Fermi Detection of Delayed GeV Emission from the Short Gamma-Ray Burst 081024B”, The Fermi and Swift Collaborations (208 authors in alphabetical order), 2010, ApJ, **712**, 558
79. “The long rapid decay phase of the extended emission from the short GRB080503”, Genet, F., Butler, N. R., & **Granot, J.** 2010, MNRAS, **405**, 695–700
78. “Swift and Fermi observations of the early afterglow of the short GRB 090510”, The Swift and Fermi Collaborations (195 authors, mostly in alphabetical order), 2010, ApJ Lett., **709**, L146–L151
77. “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, **403**, 1296–1316
76. “Late time observations of GRB080319B: jet break, host galaxy and accompanying supernova”, Tanvir, N. R., et al. (J. Granot author 6 out of 18), 2010, ApJ, **725**, 625–632
75. “Limits on radioactive-powered emission associated with a short-hard GRB 070724A in a star-forming galaxy”, Kocevski, D., et al. (J. Granot author 5 out of 13), 2010, MNRAS, **404**, 963–974
74. “A late time afterglow rebrightening in GRB081028”, Margutti, R., et al. (J. Granot author 3 out of 22), 2010, MNRAS, **402**, 46–64
73. “Fermi Observations of GRB 090902B: A Distinct Spectral Component in the Prompt and Delayed Emission”, The Fermi and Swift collaborations (206 authors, alphabetical), 2009, ApJ Lett., **706**, L138–L144
72. “A limit on the variation of speed of light arising from quantum gravity effects”, The Fermi LAT and GBM Collaborations (209 authors, alphabetical), 2009, **Nature**, 462, 331 (**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).
71. “Realistic analytic model for the prompt and high-latitude emission in GRBs”, Genet, F., & **Granot, J.** 2009, MNRAS, **399**, 1328–1346
70. “Fermi observations of high-energy gamma-ray emission from GRB 080825C”,



- The Fermi LAT and GBM Collaborations (181 authors, alphabetical), 2009, *ApJ*, **707**, 580–592 (**J. Granot** is a contact author)
69. “Fermi observations of high-energy gamma-ray emission from GRB 080916C”, The Fermi LAT and GBM Collaborations (254 authors, alphabetical), 2009, **Science**, 323, 1688–1693
  68. “Rise and fall of the X-ray flash 080330: an off-axis jet?”, Guidorzi, C., et al. (J. Granot author 4 out of 34), 2009, *A&A*, **499**, 439–453
  67. “Prospects for GRB science with the GLAST Large Area Telescope”, Band, D. L., et al. (57 authors, almost in alphabetical order), 2009, *ApJ*, **701**, 1673–1694
  66. “GRB 080503: Implications of a Naked Short Gamma-Ray Burst Dominated by Extended Emission”, Perley, D. A., et al. (J. Granot author 3 out of 25), 2009, *ApJ*, **696**, 1871–1885
  65. “SN 2001em: Not so Fast”, Schinzel, F. K., et al. (J. Granot author 4 out of 5), 2009, *ApJ*, **691**, 1380–1386
  64. “Stability of Radiative Relativistic Shocks to Global Oscillations”, Königl, A., & **Granot, J.** 2008, *Int. J. Mod. Phys. D*, **17**, 1777–1786
  63. “Analytic expressions for the surface brightness profile of gamma-ray burst afterglow images”, **Granot, J.** 2008, *MNRAS Lett.*, **390**, L46–L50
  62. “GRB 080319B: A Naked-Eye Stellar Blast from the Distant Universe”, Racusin, J. L., et al. (J. Granot author 4 out 93), 2008, **Nature**, 455, 183–188
  61. “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
  60. “Opacity Build-up in Impulsive Relativistic Sources”, **Granot, J.**, et al. 2008, *ApJ*, **677**, 92–126
  59. “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
  58. “GRB 060714: No Clear Dividing Line between Prompt Emission and X-ray Flares”, Krimm, H. A., et al. (J. Granot author 2 out of 9), 2007, *ApJ*, **665**, 554–568
  57. “The Structure and Dynamics of GRB Jets”, **Granot, J.** 2007, *Rev. Mex. A&A*, **27**, 140–165
  56. “A Simple Test of the External Shock Model for the Prompt Emission in Gamma-Ray Bursts”, Ramirez-Ruiz, E., & **Granot, J.** 2007, *New Astronomy*, Volume 12, Issue 8, pp. 630–634

55. “Prompt and Afterglow Emission Properties of GRBs with Spectroscopically identified Supernovae”,  
Kaneko, Y., et al. (J. Granot author 3 out of 11), 2007, ApJ, **654**, 385–402
54. “Smooth Light Curves from a Bumpy Ride: Relativistic Blast Wave Encounters a Density Jump”,  
Nakar, E., & **Granot, J.** 2007, MNRAS, Volume 380, Issue 4, pp. 1744–1760
53. “The flat decay phase in the early X-ray afterglows of Swift GRBs”,  
**Granot, J.** 2006, Il Nuovo Cimento B, **121** (10-11), 1073–1079
52. “A new gamma-ray burst classification scheme from GRB 060614”,  
Gehrels, N., et al. (J. Granot author 4 out of 20), 2006, **Nature**, 444, 1044–1046
51. “The Giant Flare from SGR 1806-20 and its Radio Afterglow”,  
Taylor, G. B., & **Granot, J.** 2006, invited Brief Review, Mod. Phys. Lett. A, Vol. 21, No. 29, pp. 2171–2188
50. “Revealing the Jet Structure of GRB 030329 with High Resolution Multicolor Photometry”,  
Gorosabel, J., et al. (J. Granot author 4 out of 10), 2006, ApJ Lett., **641**, L13–L16
49. “Implications of the Early X-Ray Afterglow Observations of Swift GRBs”,  
**Granot, J.**, Königl, A., & Piran, T. 2006, MNRAS, **370**, 1946–1960
48. “Distribution of Gamma-Ray Burst Ejecta Energy with Lorentz Factor”,  
**Granot, J.**, & Kumar, P. 2006, MNRAS Lett., **366**, L13–L16
47. “The Case for Anisotropic Afterglow Efficiency within Gamma-Ray Burst Jets”,  
Eichler, D., & **Granot, J.** 2006, ApJ Lett., **641**, L5–L8
46. “Evidence for a Canonical GRB Afterglow Light Curve in the Swift XRT Data”,  
Nousek, J., et al. (J. Granot author 5 out of 28, but did most of the theory), 2006, ApJ, **642**, 389–400
45. “Closing in on a Short GRB Progenitor: Constraints from Early Optical Imaging and Spectroscopy of a Possible Host Galaxy of GRB 050509b”, Bloom, J. S., et al. (J. Granot author 8 out of 28), 2006, ApJ, **638**, 354–368
44. “Diagnosing the Outflow from the SGR 1806-20 Giant Flare with Radio Observations”,  
**Granot, J.**, et al. 2006, ApJ, **638**, 391–396
43. “The Galaxy Hosts and Large-Scale Environments of Short-Hard Gamma-Ray Bursts”,  
Prochaska, J. X., et al. (J. Granot author 7 out of 22), 2005, ApJ, **642**, 989–994
42. “Two Component GRB Jet Models”,  
Peng, F., Königl, A. & **Granot, J.** 2005, NCimC, **28**, 439
41. “GRB 050509B: Constraints on Short Gamma-Ray Burst Models”,

- Hjorth, J., et al. (J. Granot author 4 out of 22), 2005, *ApJ Lett.*, **630**, L117–L120
40. “A Compact Binary Merger Model for GRB 050509b”,  
Lee, W. H., Ramirez-Ruiz, E., & **Granot, J.** 2005, *ApJ Lett.*, **630**, L165–L168
39. “The Growth, Polarization, and Motion of the Radio Afterglow from the Giant Flare from SGR 1806–20”,  
Taylor, G. B., et al. (J. Granot author 4 out of 11), 2005, *ApJ Lett.*, **634**, L93–L96
38. “Afterglow Light Curves from Impulsive Relativistic Jets with an Unconventional Structure”,  
**Granot, J.** 2005, *ApJ*, **631**, 1022–1031
37. “A Re-brightening of the Radio Nebula associated with the 2004 Dec. 27 Giant Flare from SGR 1806–20”,  
Gelfand, J. D., et al. (J. Granot author 6 out of 10), 2005, *ApJ Lett.*, **634**, L89–L92
36. “A Giant Gamma-Ray Flare from the Magnetar SGR 1806–20”,  
Palmer, D., et al. (J. Granot author 10 out of 28), 2005, **Nature**, 434, 1107–1109
35. “An Expanding Radio Nebula Produced by the Giant Flare from the Magnetar SGR 1806–20”,  
Gaensler, B. M., et al. (J. Granot author 7 out of 19), 2005, **Nature**, 434, 1104–1106
34. “Afterglow Observations Shed New Light on the Nature of X-Ray Flashes”,  
**Granot, J.**, Ramirez-Ruiz, E., & Perna, R. 2005, *ApJ*, **630**, 1003–1014
33. “Radio Flares and the Magnetic Field Structure in GRB Outflows”,  
**Granot, J.**, & Taylor, G. B. 2005, *ApJ*, **625**, 263–270
32. “An Off-Axis Model for GRB 031203”,  
Ramirez-Ruiz, E., et al. (Granot 2 of 6), 2005, *ApJ*, **625**, L91–L94
31. “Two Component Jet Models of GRB Sources”, Peng, F., Königl, A. & **Granot, J.** 2005, *ApJ*, **626**, 966–977
30. “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
29. “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
28. “The Case for a Misaligned Relativistic Jet from SN 2001em”,  
**Granot, J.**, & Ramirez-Ruiz, E. 2004, *ApJ Lett.*, **609**, L9–L12
27. “High Energy Emission from the Double Pulsar System J0737–3039”,  
**Granot, J.**, & Mészáros, P. 2004, *ApJ Lett.*, **609**, L17–L20
26. “Testing the Predictions of the Universal Structured GRB Jet Model”,  
Nakar, E., **Granot, J.**, & Guetta, D. 2004, *ApJ Lett.*, **606**, L37–L40

25. “Explaining the High Energy Spectral component in GRB 941017”,  
**Granot, J.**, & Guetta, D. 2003, ApJ Lett., **598**, L11–L14
24. “The Most Probable Cause for the High Gamma-Ray Polarization in GRB 021206”,  
**Granot, J.** 2003, ApJ Lett., **596**, L17–L21
23. “Radio Imaging of GRB Jets in Nearby Supernovae”,  
**Granot, J.**, & Loeb, A. 2003, ApJL, **593**, L81–L84
22. “Refreshed Shocks from a GRB”,  
**Granot, J.**, Nakar, E., & Piran, T. 2003, **Nature**, 426, 138–139
21. “Linear Polarization in Gamma-Ray Bursts: The Case for an Ordered Magnetic Field”,  
**Granot, J.**, & Königl, A. 2003, ApJ Lett., **594**, L83–L87
20. “Constraining the Structure of Gamma-Ray Burst Jets through the Afterglow Light Curves”,  
**Granot, J.**, & Kumar, P., 2003, ApJ, **591**, 1086–1096
19. “The Evolution of a Structured Relativistic Jet and Gamma-Ray Burst Afterglow Light Curves”,  
Kumar, P., & **Granot, J.** 2003, ApJ, **591**, 1075–1085
18. “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 (4 pages)
17. “Neutrinos from Pulsar Wind Bubbles as Precursors to Gamma-Ray Bursts”,  
**Granot, J.**, & Guetta, D. 2003, **Phys. Rev. Lett.**, 90, 191102 (4 pages)
16. “High-Energy Emission from the Prompt GRB”,  
Guetta, D., & **Granot, J.** 2003, ApJ, **585**, 885–889
15. “Observational Implications of a Plerionic Environment for Gamma-Ray Bursts”,  
Guetta, D., & **Granot, J.** 2003, MNRAS, **340**, 115–138
14. “The Mean Number of Extra Microimage Pairs for Macrolensed Quasars”,  
**Granot, J.**, Schechter, P. L., & Wambsganss, J. 2003, ApJ, **583**, 575–583
13. “Variability in GRB afterglows and GRB 021004”,  
Nakar, E., Piran, T., & **Granot, J.** 2003, New Astronomy, **8**, 495–505
12. “The Detectability of Orphan Afterglows”,  
Nakar, E., Piran, T., & **Granot, J.** 2002, ApJ, **579**, 699–705
11. “GRB Afterglows in Pulsar-Wind Bubbles”,  
Königl, A., & **Granot, J.** 2002, ApJ, **574**, 134–154
10. “Off-Axis Afterglow Emission from Jetted GRBs”,  
**Granot, J.**, et al. 2002, ApJ Lett., **570**, L61–L64

9. “The Shape of Spectral Breaks in GRB Afterglows”,  
**Granot, J.**, & Sari, R. 2002, ApJ, **568**, 820–829
8. “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
7. “Radiative Hydromagnetic Shocks in Relativistic Outflow Sources”,  
**Granot, J.**, & Königl, A. 2001, ApJ, **560**, 145–159
6. “Chromatic Signatures in GRB Afterglow Microlensing”,  
**Granot, J.**, & Loeb, A. 2001, ApJ, **551**, L63–L66
5. “The Bright Gamma-Ray Burst 991208 - Tight Constraints on Afterglow Models”,  
Galama, T. J., et al. (J. Granot 16 out of 16 authors), 2000, ApJ Lett., **541**, L45–L49
4. “The Synchrotron Spectrum of Fast Cooling Electrons Revisited”,  
**Granot, J.**, Piran, T., & Sari, R. 2000, ApJ Lett., **534**, L163–L166
3. “Images, Light Curves and Spectra of GRB Afterglow”,  
**Granot, J.**, Piran, T., & Sari, R. 1999, AA, Supl. Ser., 138, 541–542
2. “Synchrotron Self Absorption in Gamma-Ray Bust Afterglow”,  
**Granot, J.**, Piran, T., & Sari, R., 1999, ApJ, **527**, 236–246
1. “Images and Spectra from the Interior of a Relativistic Fireball”,  
**Granot, J.**, Piran, T., & Sari, R. 1999, ApJ, **513**, 679–689