



Research Field: Heliospheric and Planetary Science

Focused Field: Space Plasma Physics, MHD Turbulence

SHORT BIO:

Professor Li Gang has long engaged in space physics research and is an internationally recognized expert in heliospheric research. He obtained his Bachelor degree in Physics from Tsinghua University in 1994. He then went to the US and obtained his Ph.D degree in Physics and Master degree of Computer Science from Indiana University, Bloomington.

He worked as a postdoc researcher and Assistant Physicist in UC Riverside and UC Berkeley from 2001 to 2008 before joining the faculty at the University of Alabama in Huntsville. He was promoted to Full professor in 2019. In October 2024, after being abroad over 30 year, Professor Li joined the Key Laboratory of Lunar and Planetary Sciences at the Macau University of Science and Technology.

His main research interests are: solar energetic particles, space weather, particle acceleration and transport, galactic cosmic rays, solar spectroscopy, MHD turbulence, statistical physics, numerical simulations.

He has received numerous honors, including the US National Science Foundation's Outstanding Young Scientist Award, the International Society of Pure and Applied Physics Outstanding Young Scientist Award, the Oak Ridge Institute of Universities' Young Professor Award, and the China Space Weather Society's Space Weather Innovation Scientist Award, etc.

Professor

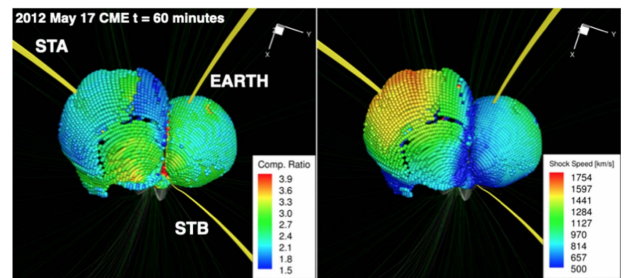
Gang Li

李剛



PhD: Physics – Indiana University (2000)

BS: Physics – Tsinghua University (1994)



Li, G. et al. Modeling the 2012 May 17 Solar Energetic Particle Event Using the AWSOM and iPATH Models, ApJ, 919, 146 (2021)

RECENT PUBLICATIONS (as 1st/correspondence author)

- Y. D. Xu, **Li, G.**, and S. Yao. Electron Acceleration at Shock Ripples: Role of Pitchangle Diffusion. ApJ , volume 988, page 67, July 2025.
- Li, G.**, S. Fu, X. C. Guo, J. Tacza, T. Chen, and J. W. Yue. Magnetopause Location and Solar Wind Turbulence Level During FDs and Their Impacts on the Global Electric Circuit. Space Weather, volume 23, page e2025SW004453, June 2025.
- Xiaoyan Xie, **Li, Gang**, Kathy Reeves, and Tingyu Gou. Probing turbulence in solar flares from SDO/AIA emission lines. Frontiers in Astronomy and Space Sciences, volume 11, page fspas.2024.1383746, 2024.

PROFESSIONAL APPOINTMENTS

- 2024.10–present, Professor, Macau University of Science and Technology
- 2021.08–2024.04, Director, Space Weather Lab. University of Alabama in Huntsville
- 2019.03–2024.04 Professor, Department of Space Science, University of Alabama in Huntsville
- 2014.03–2019.3 Associate Professor, Department of Space Science.
- 2008.08–2014.3 Assistant Professor, Department of Physics/Department of Space Science.

PROJECTS

FDCT – 2025-2028 PI Variations of geomagnetic cutoff rigidity during Forbush Decreases

ORCID: 0000-0003-4695-8866



gli@must.edu.mo,
gangli.glspl@gmail.com