

Gang Cao

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Education

1993 *Ph.D. in Physics*, Temple University, Philadelphia, Pennsylvania, USA

Thesis advisor: *Prof. Jack E. Crow* (deceased), Founding Director of National High Magnetic Field Laboratory, Tallahassee, Florida

1993 - 1995 *Postdoc* National High Magnetic Field Laboratory, Tallahassee, Florida, USA

Academic Appointments

2016 - Present *Professor* Department of Physics, University of Colorado at Boulder

2022 - Present *Director* Center for Experiments on Quantum Materials, University of Colorado

2016 - Present *Professor* Materials Science and Engineering, University of Colorado at Boulder

2011 - 2016 *Jack and Linda Gill Eminent Professor*, University of Kentucky

2008 - 2016 *Founding Director* Center for Advanced Materials, Kentucky

2007 - 2016 *Professor* Department of Physics and Astronomy, University of Kentucky

2002 - 2007 *Associate Professor* Department of Physics and Astronomy, University of Kentucky

1998 - 2002 *Associate Scientist* National High Magnetic Field Laboratory, Tallahassee, Florida

1995 - 1998 *Assistant Scientist* National High Magnetic Field Laboratory, Tallahassee, Florida

Major Professional Activities

- Founding Chair for *American Physical Society (APS) Topical Group on Quantum Materials Synthesis (GQMS)*, 11/2023-1/2025; Past Chair, 2026-2027
- Executive Committee Member for *APS Division of Condensed Matter Physics (DCMP)*, 3/205-2/2029
- Specialty Chief Editor, *Frontiers in Materials*; Guest Editor, *npj Quantum Materials* and *IJMPB*, *World Scientific Publishing*

Research Interests

Discovery, synthesis, and study of correlated, spin-orbit-coupled materials, physical and structural properties of these materials at small electric currents, high magnetic fields, high pressures and low temperatures.

Honors and Awards

- *Fellow*, American Physical Society, 2009
- *Albert D. & Elizabeth H. Kirwan Memorial Prize for Outstanding Contributions to Original Research or Creative Scholarship*, University of Kentucky, 2015
- *Jack and Linda Gill Eminent Professor*, University of Kentucky, 2011-2016
- *University Research Professor*, University of Kentucky, 2009-2010

Publications and Invited Talks

Author of more than **280** articles in refereed journals and **2** books (*Oxford University Press* 2021; *World Scientific* 2013). More than **170** invited talks at international conferences, universities, or national laboratories/research institutions.

Citations > **18,700**; **h-index** = **73**; **i10-index** = **210**. Source: [Google Scholar](https://scholar.google.com/citations?user=gang.cao)