

MANISH CHHOWALLA

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PROFESSIONAL PREPARATION

Rutgers University, Materials Science and Engineering, B.S., 1992

University of Cambridge, (UK), Electrical Engineering, Ph.D., 1998

APPOINTMENTS

- Professor and Associate Department Chair, Materials Science and Engineering, Rutgers University, 2010 – Present.
- Director of Rutgers Institute for Advanced Materials, Nanotechnology, and Devices (IAMDN), July 1, 2016 – Present.
- Professor in Electrical and Computer Engineering, 2013 – Present.
- Professor in Materials, Department of Materials, Imperial College London, 2009-2010
- Associate Professor, Materials Science Engineering, Rutgers University, 2006-2009
- Assistant Professor, Materials Science Engineering, Rutgers University, 2003-2006
- Royal Academy of Engineering Postdoctoral Research Fellow, Engineering Department, University of Cambridge, Cambridge UK, 2000-2003
- Research Associate, Engineering Department, University of Cambridge, Cambridge UK, 1998-2000
- Ph.D. Student, Engineering Department, University of Cambridge, Cambridge UK, 1995-1999
- Scientist, Multi-Arc Inc., Rockaway, NJ, 1992-1994
- Undergraduate Researcher, Rutgers University, 1988 – 1992.

RESEARCH INTERESTS

Prof. Chhowalla's research deals with fundamental aspects of phase engineering in two-dimensional materials synthesized by chemical exfoliation and chemical vapor deposition. His group has successfully implemented phase engineered 2D materials in solution processed large-area flexible electronics and in high performance electronics. His group has also done seminal work in tuning the electronic properties of 2D materials by chemical functionalization.

SELECTED PROFESSIONAL ACTIVITIES

- Member of MRS, AAAS, AVS, ECS
- Member of Division of NSF Materials Research (DMR) Committee of Visitors (COV)
- Founding Editor in Chief of *Applied Materials Today* (May 2015 – May 2016)
- Associate Editor of *ACS Nano* (June 1, 2016).
- Editorial Boards of *ACS Nano*, *Journal of Materials Chemistry A*, *Advances in Materials Science and Engineering*, Guest Editor for *Proceeding of National Academy of Sciences*
- Director of Nanotechnology for Clean Energy NSF IGERT Graduate Training Program for US Students (Aug. 2009 – Aug. 2015).
- Co-Founder of GraphenEx –Start-up Company Supplying high quality graphene and related materials.

- Scientific Advisor for Graphenea, A Graphene Start Up Company (San Sebastian, Spain).
- MRS Webinar on 2D Materials, July 22, 2015.
- Co-Organizer of Symposium Y: Science and Technology of 2D Materials, European MRS Meeting, May 2015.
- Primary Organizer of Symposium E: Challenges and Opportunities for Mobile Electronics, MRS Spring 2013.
- Primary organizer of Symposium R: Science and technology of nanotubes, graphene and 2D layered materials, European Material Research Society, Spring 2012.
- Co-Organizer of Symposium P: Science and technology of nanotubes, nanowires, and graphene, European Materials Research Society Meeting, 2010.
- Primary Organizer of Symposium L: Large area electronics based on carbon nanotubes and graphene, Materials Research Society Fall Meeting, 2009.
- Symposium Chair and Program Committee at the Annual SPIE Nanoscience and Engineering Symposium on Carbon Nanotubes, Graphene and Associated Devices Symposium, San Diego, CA (2008 – 2010).

AWARDS AND HONORS:

- Fellow of Institute of Physics; elected in 2015.
- Fellow of Royal Society of Chemistry; elected in 2014.
- Institute of Physics of Ireland Lectureship (September 2013).
- Donald H Jacobs Chair in Applied Physics (Jan 1, 2009 – Dec 31, 2012).
- Visiting Professor in Department of Applied Physics, Polytechnic University of Hong Kong (June 30 – Aug 6, 2016).
- Visiting Professor in Department of Materials at Imperial College London (Jan 2010 – Pres.)
- Visiting Professor in the School of Green Energy of Ulsan National Institute of Science and Technology (UNIST), Ulsan, Korea (May 2011 – April 2014).
- Visiting Professor in the Chemistry Department of National University of Singapore (June 2012 – Aug 2015).
- Visiting Professor in the School of Biomedical Engineering of Nanyang Technological University, Singapore (July 2013 – Aug 2014).
- UK Royal Society's Wolfson Merit Award (2009 – 2010).
- U.S. National Science Foundation's CAREER Award for Young Investigators (April 2006)
- Sigma Xi Outstanding Young Investigator for the Mid-Atlantic Region (2006).
- The Rutgers University Board of Trustees Fellowship for Scholarly Excellence (2007).
- Rutgers University Merit Award from 2003 –2009.
- Royal Academy of Engineering Research Fellowship, University of Cambridge (2001–2003).
- Wolfson College (University of Cambridge) Junior and Senior Research Fellow
- Cambridge University Newton Trust Scholarship
- Active Member of Sigma Xi Scientific Honor Society since 2003.
- Active Member of MRS, AAAS, Institute of Physics, Royal Society of Chemistry
- > 200 Invited Talks at Major International Conferences.