



FENG Yuan Ping

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Academic Qualifications

B.Sc. in Physics, Lanzhou University, 1982
Ph.D. in Physics, Illinois Institute of Technology, 1987

Research Interests

Yuan Ping Feng has been a faculty member of Department of Physics at the National University of Singapore (NUS) since 1990. He joined NUS following a 3 year postdoctoral stint at Purdue University. His research interest is in computational condensed matter & materials physics, focusing mainly on the understanding of fundamental properties of materials for advanced technologies, and prediction of new materials based on ab initio electronic structure calculations. In recent years, he has studied various materials including dilute magnetic semiconductors, graphene spintronics, high-k materials, topological insulators, semiconductor and metal surfaces and interfaces, materials for magnetic data storage, etc. He has an established track record in collaboration with experimentalists. He has authored/co-authored more than 400 scientific papers in international refereed journals and one book.

Selected Publications

“Simultaneous Magnetic and Charge Doping of Topological Insulators with Carbon”, L Shen, M G Zeng, Y H Lu, M Yang, and Y P Feng, *Physical Review Letters* 111 (23), 236803 (2013).
“Room temperature ferromagnetism in Teflon due to carbon dangling bonds”, Y W Ma, Y H Lu, J B Yi, Y P Feng, T S Heng, X Liu, D Q Gao, D S Xue, J M Xue, J Y Ouyang, J Ding, *Nature Communications*, 3, 727 (March 2012).
“Room-Temperature Ferromagnetism in ZnO-Encapsulated 1.9 nm FePt₃ Nanoparticle-composite Thin Films with Giant Interfacial Anisotropy”, Lei Shen, Tiejun Zhou, Rui Qi Wee, Kiat Min Cher, Hnin Yu Yu Ko, Rui Niu, Hao Gong, Zhimin Yuan, Bo Liu, and Yuan Ping Feng, *Adv. Mater.* (2013).
“Graphene-based spin logic gates”, Minggang Zeng, Lei Shen (沈雷), Haibin Su, Chun Zhang, and Yuan Ping Feng, *Applied Physics Letters*, **98** (9), 092110 (2011).
“Room-temperature ferromagnetism in carbon-doped ZnO”, H Pan, J Yi, L Shen, R Wu, J H Yang, J Y Lin, Y P Feng, J Ding, L H Van and J H Yin, *Physical Review Letters*, **99** (12), 127201 (2007).
“Chemical tuning of band alignments for metal gate/high-k oxide interfaces”, Y F Dong, S J Wang, Y P Feng, and A. C. H. Huan, *Physical Review B*, 73, 045302 (January 2006).

Present and Past Appointments

Head (Apr 08 – Jun 2014), Acting Head (Apr 07- Mar 08) & Deputy Head (Feb 2005 - Mar 07)
Department of Physics
National University of Singapore
Visiting Professor (Dec 2010 – Present)
Department of Materials Science and Engineering
Zhejiang University, China
Adjunct professor (July 2004 – July 2006, June 2008 – June 2011)
College of Physics and Technical Physics
Lanzhou University, China
Supervisor
Graduate School for Integrative Sciences and Engineering, NUS
Adjunct Scientist (July 2003 - Present)
Institute of Materials Research and Engineering (Singapore)
Adjunct Professor, (August 2002 – March 2013)
Institute of High Performance Computing (Singapore)
Advisor (July 2003 - June 2007)
International Relation Office
National University of Singapore
Vice-Dean (July 1999 - June 2000)
Faculty of Science, National University of Singapore

Director (December 1998 - June 2001)
Centre for Information Technology and its Applications
Faculty of Science, National University of Singapore

Awards/Honours

Academician, Asia Pacific Academy of Materials (since 2013)
Fellow, American Physical Society (since 2012)
Fellow, Institute of Physics, Singapore
C N Yang Award in Science and Technology for New Immigrant (Singapore) – An Outstanding Contribution Award by Huayuan Association 2013
NUS Excellent Teacher Award AY 2003/2004
Faculty of Science Teaching Honour Roll AY2006/2007
Faculty of Science Teaching Excellence Award (AY2000/01, AY2003/04, AY2004/05, AY2005/06)
Faculty of Science Teaching Award (Physics), 1992

Career History

January 2007 - Present, Professor
August 1998 - December 2006, Associate Professor
July 1994 - July 1998, Senior Lecturer
July 1990 - June 1994, Lecturer
Department of Physics, National University of Singapore
Sept. 1987 - June 1990
Postdoctoral Research Associate
Purdue University
August 1986 - May 1987
Part-time Instructor
Chicago State University
August 1982 - August 1987
Teaching Assistant
Illinois Institute of Technology

Professional Activities

Secretary (Jan 2013 – Dec 2016)
International Union of Materials Research Societies (IUMRS)
Vice President (2013-) & Member of Management Committee (2002 - 2003, 2006 -)
Materials Research Society of Singapore
Council Member (1992 - 1997, 1999 - 2007)
The Institute of Physics, Singapore
Member (2006 - 30 June 2008, 2011 -)
Materials Research Society (USA)
Editor-in-Chief (2011 - Present)
International Journal of Computational Materials Science & Engineering (IJCMSE)
Editor (2007 - Present)
Materials Transaction
Editor (2015 - Present)
Progress in Natural Science: Materials International
Member of Editorial Board (2007 - 2015)
Research Letters in Physics / Physics Research International
Member of editorial board (2008 – Present), International Journal of Nanoelectronics and Materials
Editor-in-chief (1994-1997) and member of the editorial board (1995-) of the Singapore Journal of Physics, a research journal published by the Institute of Physics, Singapore
Consultation (May 2003 - April 2004)
Insight-Etude