



## FENG Yuan Ping

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Department of Physics  
Faculty of Science  
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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 500 scientific papers in international refereed journals and one book.

### Selected Publications

"Pressure induced topological phase transition in layered  $\text{Bi}_2\text{S}_3$ ", M. Yang, Y. Z. Luo, M. G. Zeng, L. Shen, Y. H. Lu, J. Zhou, S. J. Wang, I. K. Sou, and Y. P. Feng, Y. P., Phys. Chem. Chem. Phys., **19**, 29372 (2017).  
"Prospects of spintronics based on 2D materials", Y. P. Feng, L. Shen, M. Yang, A. Z. Wang, M. G. Zeng, Q. Y. Wu, S. Chintalapati and C.-R. Chang, WIREs Comput. Mol. Sci. e1313 (2017).  
"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).  
"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  $\text{ZnO}$ ", 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).

### 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 – March 2017)  
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 (since 2007)  
Institute of Physics (IoP) President's Medal (2017)  
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 2018)  
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

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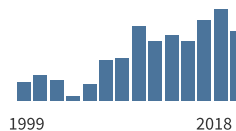
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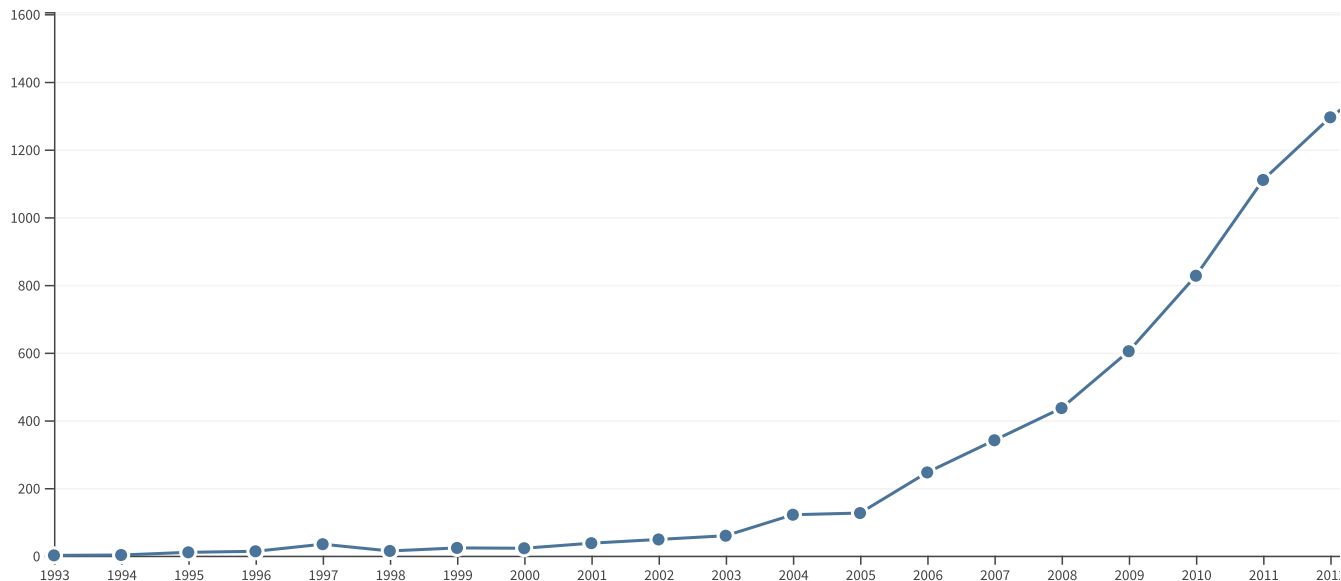
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By: Ni, Z. H.; Wang, H. M.; Kasim, J.; et al. <a href="#">NANO LETTERS</a> Volume: 7 Issue: 9 Pages: 2758-2763 Published: SEP 2007	88	75	72	75	31	664	55.33
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By: Pan, H.; Yi, J. B.; Shen, L.; et al. <a href="#">PHYSICAL REVIEW LETTERS</a> Volume: 99 Issue: 12 Article Number: 127201 Published: SEP 21 2007	65	50	57	46	21	594	49.50
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By: Yi, J. B.; Lim, C. C.; Xing, G. Z.; et al. <a href="#">PHYSICAL REVIEW LETTERS</a> Volume: 104 Issue: 13 Article Number: 137201 Published: APR 2 2010	41	30	40	31	12	284	31.56
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By: Pan, Hui; Li, Jianyi; Feng, Yuan Ping <a href="#">NANOSCALE RESEARCH LETTERS</a> Volume: 5 Issue: 3 Pages: 654-668 Published: MAR 2010	33	40	47	53	11	262	29.11
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By: Shen, L.; Wu, R. Q.; Pan, H.; et al. <a href="#">PHYSICAL REVIEW B</a> Volume: 78 Issue: 7 Article Number: 073306 Published: AUG 2008	23	31	28	16	10	226	20.55
<input checked="" type="checkbox"/> 7. <b>Metal-Embedded Graphene: A Possible Catalyst with High Activity</b>							
By: Lu, Yun-Hao; Zhou, Miao; Zhang, Chun; et al. <a href="#">JOURNAL OF PHYSICAL CHEMISTRY C</a> Volume: 113 Issue: 47 Pages: 20156-20160 Published: NOV 26 2009	26	36	44	35	17	223	22.30
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By: Ariando; Wang, X.; Baskaran, G.; et al. <a href="#">NATURE COMMUNICATIONS</a> Volume: 2 Article Number: 188 Published: FEB 2011	42	32	31	18	12	218	27.25
<input checked="" type="checkbox"/> 9. <b>Growth of singlecrystalline Ni and Co nanowires via electrochemical deposition and their magnetic properties</b>							
	13	20	17	9	3	201	14.36

By: Pan, H; Liu, BH; Yi, JB; et al.  
[JOURNAL OF PHYSICAL CHEMISTRY B](#) Volume: 109 Issue: 8 Pages: 3094-3098  
Published: MAR 3 2005

☒ 10. **Carbon nanowalls and related materials**

By: Wu, YH; Yang, BJ; Zong, BY; et al.  
[JOURNAL OF MATERIALS CHEMISTRY](#) Volume: 14 Issue: 4 Pages: 469-477  
Published: FEB 21 2004

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