JIANG Ying

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Personal: Male; Born July 20, 1982 in Leshan City, Sichuan Province; Chinese.

Research Areas: Condensed Matter Physics, Chemical Physics.

Education:

- Ph.D. Physics. Institute of Physics, Chinese Academy of Sciences, 2008
- B.S. Physics. Beijing Normal University, P. R. China, 2003

Professional Experiences:

- **Boya Distinguished Professor**. International Center for Quantum Materials, Peking University, Beijing, China, 2018.2-present
- **Full Professor**. International Center for Quantum Materials, Peking University, Beijing, China, 2018.2-present
- Associate Professor (tenured). International Center for Quantum Materials, Peking University, Beijing, China, 2016.2-2018.1
- Associate Professor. International Center for Quantum Materials, Peking University, Beijing, China, 2013.2-2016.1
- Assistant Professor. International Center for Quantum Materials, Peking University, Beijing, China, 2010.1-2013.1
- **Postdoctoral Research Associate**. Department of Physics and Astronomy, University of California, Irvine, USA, 2008.3-2009.12
- Visiting Scholar. Institut für Festkörperforschung, Forschungszentrum Jülich GmbH, Germany, 2006.11-2007.6

Administration Position:

- Director, International Center for Quantum Materials, Peking University, 2024-present
- **Director**, Research Center for Light-Element Advanced Materials, Peking University, 2021present
- Director, Center for Helium Recovery and Liquefaction, Peking University, 2015-present

Representative Publications (selected out of 93):

 D. Wu, Z. Zhao, B. Lin, Y. Song, J. Qi, J. Jiang, Z. Yuan, B. Cheng, M. Zhao, Y. Tian, Z. Wang, M. Wu, K. Bian, K.-H. Liu*, L.-M. Xu*, X. C. Zeng*, E.-G. Wang*, Y. Jiang*, "Probing structural superlubricity of two-dimensional water transport with atomic resolution", Science 384, 1254 (2024).

- J. Hong, Y. Tian*, T. Liang, X. Liu, Y. Song, D. Guan, Z. Yan, J. Guo, B. Tang, D. Cao, J. Guo, J. Chen, D. Pan, L.-M. Xu*, E.-G. Wang*, Y. Jiang*, "Imaging surface structure and premelting of ice Ih with atomic resolution", Nature 630, 375 (2024).
- 3. Y. Tian, J. Hong, D. Cao, S. You, Y. Song, B. Cheng, Z. Wang, D. Guan, X. Liu, Z. Zhao, X.-Z. Li, L.-M. Xu, J. Guo*, J. Chen*, E.-G. Wang*, **Y. Jiang***, "Visualizing Eigen/Zundel cations and their interconversion in monolayer water on metal surfaces", **Science** 377, 315 (2022).
- R. Ma, D. Cao, C. Zhu, Y. Tian, J. Peng, J. Guo, J. Chen, X.-Z., Li, J. S. Francisco, X. C. Zeng^{*}, L.-M. Xu^{*}, E.-G. Wang^{*}, Y. Jiang^{*}, "Atomic imaging of edge structure and growth of a twodimensional hexagonal ice", Nature 577, 60 (2020).
- J. Peng, B. Chen, Z. Wang, J. Guo, B. Wu, S. Hao, Q. Zhang, L. Gu, Q. Zhou, Z. Liu, S. Hong, A. Fu, Z. Shi, H. Xie, D. Cao, C.-J. Lin, G. Fu*, L.-S. Zheng, Y. Jiang*, N. Zheng*, "Surface Coordination Layer Passivates Oxidation of Copper", Nature 586, 390 (2020).
- J. Peng, D. Cao, Z. He, J. Guo, P. Hapala, R. Ma, B. Cheng, J. Chen, W.-J. Xie, X.-Z. Li, P. Jelínek, L.-M. Xu*, Y.-Q. Gao*, E.-G Wang*, Y. Jiang*, "The effect of hydration number on the interfacial transport of sodium ions", Nature 557, 701 (2018)
- J. Guo, J.-T. Lü, Y. Feng, J. Chen, J. Peng, Z. Lin, X. Meng, Z. Wang, X.-Z. Li*, E.-G. Wang*, and Y. Jiang*, "Nuclear quantum effects of hydrogen bonds probed by tip-enhanced inelastic electron tunneling", Science 352, 321 (2016).
- 8. **Y. Jiang**, J. X. Cao, Y. N. Zhang, R. Q. Wu, and W. Ho^{*}, "Real-space imaging of Kondo Screening in a two-dimensional O₂ lattice", **Science** 333, 324 (2011).
- Y. Tian, Y. Song, Y. Xia, J. Hong, Y. Huang, R. Ma, S. You, D. Guan, D. Cao, M. Zhao, J. Chen, C. Song, K. Liu, L.-M. Xu*, Y. Q. Gao*, E.-G. Wang*, Y. Jiang*, "One-dimensional close packing of interfacial alkali ions driven by water-mediated attraction", Nature Nanotechnology, 19, 479 (2024).
- W. Zheng, K. Bian*, X. Chen, Y. Shen, S. Zhang, R. Stöhr, A. Denisenko, J. Wrachtrup, S. Yang*, Y. Jiang*, "Coherence enhancement of solid-state qubits by local manipulation of the electron spin bath", Nature Physics 18, 1317 (2022).
- X. Meng, J. Guo, J. Peng, J. Chen, Z. Wang, J.-R. Shi, X. Z. Li, E. G. Wang*, Y. Jiang*, "Direct visualization of concerted proton tunneling in a water nanocluster", Nature Physics 11, 235 (2015).
- J. Guo, X. Z. Meng, J. Chen, J. B. Peng, J. M. Sheng, X. Z. Li, L. M. Xu, J. R. Shi, E. G. Wang^{*}, Y. Jiang^{*}, "Real-space imaging of interfacial water with submolecular resolution", Nature Materials 13, 184 (2014).
- Y. Jiang, Q. Huan, L. Fabris, G. C. Bazan, and W. Ho*, "Submolecular control, spectroscopy, and imaging of bond-selective chemistry in single molecules", Nature Chemistry 5, 36 (2013).
- 14. Y. Tian*, B. Huang, Y. Song, Y. Zhang, D. Guan, J. Hong, D. Cao, E. G. Wang, L. M. Xu*, Y. Shao-Horn*, **Y. Jiang***, "Effect of ion-specific water structures at metal surfaces on hydrogen production", **Nature Communications** 15, 7834 (2024).
- P. Yang, C. Zhang, W. Sun, J. Dong, D. Cao*, J. Guo*, Y. Jiang*, "Robustness of Bilayer Hexagonal Ice against Surface Symmetry and Corrugation", Physics Review Letters 129, 046001 (2022).

- K. Bian, W. Zheng, X. Zeng, X. Chen, R. Stöhr, A. Denisenko, S. Yang, J. Wrachtrup*, Y. Jiang*, "Nanoscale electric-field imaging based on a quantum sensor and its charge-state control under ambient condition", Nature Communications 12, 2457 (2021).
- C. Guo, X. Meng, H. Fu, Q. Wang, H. Wang, Y. Tian, J. Peng, R. Ma, Y. Weng, S. Meng*, E.-G. Wang* and Y. Jiang*, "Probing Nonequilibrium Dynamics of Photoexcited Polarons on a Metal-Oxide Surface with Atomic Precision", Physics Review Letters 124, 206801 (2020).
- J. Zhu, Z. Wang, H. Dai, Q. Wang, R. Yang, H. Yu, M. Liao, J. Zhang, W. Chen, Z. Wei, N. Li, L. Du, D. Shi, W. Wang, L. Zhang*, Y. Jiang*, and G. Y. Zhang*, "Boundary activated hydrogen evolution reaction on monolayer MoS₂", Nature Communications 10, 1348 (2019)
- J. Peng, J. Guo, P. Hapala, D. Cao, R. Ma, B. Cheng, L.-M. Xu, M. Ondráček, P. Jelínek*, E.-G. Wang*, and Y. Jiang*, "Weakly perturbative imaging of interfacial water with submolecular resolution by atomic force microscopy", Nature Communications 9, 122 (2018)
- J. Chen, J. Guo, X. Z. Meng, J. B. Peng, J. M. Sheng, L. M. Xu, Y. Jiang*, X. Z. Li*, E. G. Wang, "An unconventional bilayer ice structure on a NaCl(001) film", Nature Communications 5, 4056 (2014).
- K. Bian*, W. Zheng, X. Chen, S. Zhang, R. Stöhr, A. Denisenko, S. Yang, J. Wrachtrup, Y. Jiang*, "A scanning probe microscope compatible with quantum sensing at ambient conditions", Review of Scientific Instruments 95, 053707 (2024).
- B. Cheng, D. Wu, K. Bian, Y. Tian, C. Guo, K. Liu*, Y. Jiang*, "A qPlus-based scanning probe microscope compatible with optical measurements", Review of Scientific Instruments 93, 043701 (2022).
- 23. J. Guo*, **Y. Jiang***, "Submolecular Insights into Interfacial Water by Hydrogen-Sensitive Scanning Probe Microscopy", **Accounts of Chemical Research** 55, 1680 (2022).
- 24. J. Peng*, J. Guo, R. Ma, **Y. Jiang***, "Water-solid interfaces probed by high-resolution atomic force microscopy", **Surface Science Reports** 77, 100549 (2022).
- 25. K. Bian, C. Gerber, A. J. Heinrich, D. J. Müller, S. Scheuring, **Y. Jiang***, "Scanning probe microscopy", **Nature Reviews Methods Primers** 1, 36 (2021).
- J. Guo, X.-Z. Li, J. B. Peng, E.-G. Wang*, and Y. Jiang*, "Atomic-scale investigation of nuclear quantum effects of surface water: experiments and theory", Progress in Surface Science 92, 203 (2017).
- 27. J. Guo, K. Bian, Z. Lin, and **Y. Jiang**^{*}, "Perspective: Structure and dynamics of water at surfaces probed by scanning tunneling microscopy and spectroscopy", **J. Chem. Phys.** 145, 160901 (2016).

Research Projects (PI only):

- 1. New Cornerstone Investigator Program: "Development and application of scanning quantum microscopy", PI, 2024-2028, ¥25,000,000
- 2. National Key R&D Program: "Exploration of new matters by manipulating nuclear quantum effects of light elements", 2021YFA1400500, PI, 2021-2026, ¥17,930,000.
- 3. National Science Fund for Distinguished Young Scholars: "Single-molecule physics and chemistry", 21725302, PI, 2018-2022, ¥4,000,000
- 4. National Science Foundation of China: "Atomic-scale investigation of nuclear quantum effects of confined/interfacial water", 11634001, PI, 2017-2021, ¥3,500,000.

- 5. National Key R&D Program: "Atomic-scale manipulation of full quantum effects of light-element materials" sub-project: " Investigation and manipulation of nuclear quantum effects of light-element materials ", 2016YFA0300901, PI, 2017-2021, ¥12,490,000.
- 6. National Program for Support of Top-notch Young Professionals: "Development of a lasercombined scanning tunneling microscope", PI, 2013-2015, ¥1,800,000.
- 7. National Science Foundation of China: "Atomic-scale manipulation of the electroluminescence of low-dimensional quantum systems", 11104004, PI, 2012-2014, ¥300,000.
- 8. Doctoral Program of Higher Education of China: "Controlling the light emission of nanostructures at atomic scale", 20110001120126, PI, 2012-2014, ¥40,000.

Honors:

- New Cornerstone Investigator, New Cornerstone Science Foundation, 2023
- Xplorer Prize, New Cornerstone Science Foundation, 2022
- "The 13th Five-Year Plan" Scientific and Technological Innovation Achievement Exhibition, Ministry of Science and technology of China, 2021.
- Achievement in Asia Award (AAA Robert T. Poe Prize), International Organization of Chinese Physicists and Astronomers (OCPA), 2021
- Zhongguancun Award to Outstanding Young Scientists, Beijing Government, 2020
- Nishina Asia Award, Nishina Memorial Foundation, 2020
- Sir Martin Wood China Prize, Oxford Instruments, 2020
- Young Global Leader, World Economic Forum, 2020
- Outstanding Research Award (1st class), Ministry of Education of China, 2019
- Fellow, American Physical Society, 2019
- Leading Innovative Talent in Science and Technology, Central Chinese Government, 2019
- Science and Technology Award for Chinese Youth, China Association for Science and Technology, 2018
- Tan Kah Kee Young Scientist Award, Tan Kah Kee Science Award Foundation, 2018
- Distinguished Young Scholars, National Science Foundation of China, 2017
- Cheung Kong Young Scholar, Ministry of Education of China, 2017
- Top-ten Science Advances in China, Ministry of Science and technology of China, 2016/2018
- Award for Supervision of Excellent Doctoral Dissertation, Peking University, 2016/2021
- Emerging Leader, Journal of Physics: Condensed Matter (IOP), 2016
- Best oral presentation, "Ge Zhi" Academic Forum for Young Scholars, Peking University, 2014
- Outstanding Young Scientist, Central Chinese Government, 2012
- Director Awards for excellent research, Chinese Academy of Sciences, 2007
- Outstanding Thesis, Beijing Normal University, 2003
- Excellent Graduate Awards, Beijing Normal University, 2003

Professional Activities:

- Executive Council Member, Chinese Vacuum Society, 2024-2029
- Editorial Advisory Board Member, Newton, 2024-present
- Co-chair, The 372nd Shuang Qing Forum of NSFC on "Molecular- and Nano-scale Water ", Beijing, China, Aug. 19-20, 2024

- Executive Chair, China Conference on Scanning Probe Microscopy (ChinaSPM 2024), Kunming, July 15-17, 2024
- Advisory Committee Member, The 15th International Conference on Atomically Controlled Surfaces, Interfaces and Nanostructures (ACSIN-15), Soochow, May 10-13, 2024
- Advisory Board Member, Center for Quantum Nanoscience (Institute for Basic Science, Korea), 2022-present
- Editorial Board Member, Journal of Physical Chemistry A/B/C, 2022-2024
- Committee Member, Chinese Physics Society (Division of Surface and Interface Physics), 2021-2026
- Associated Editor, Research, 2021-present
- Co-chair, Online Symposium on Scanning Probe Microscopy: Current Status and Future Trends, Beijing and Seoul, Nov. 9-10, 2020
- Editorial Board Member, Chinese Physical Letters, 2020-2025
- Editorial Board Member, Acta Physico-Chimica Sinica, 2020-2023
- Editorial Advisory Board Member, Journal of Chemical Physics, 2020-2022
- Executive Council Member, Chinese Association of Young Scientists And Technologists, 2019-2024
- Editorial Advisory Board Member, Advanced Quantum Technologies, 2018-present
- Editorial Board Member, Acta Chimica Sinica, 2018-2021
- Editorial Board Member, Chinese Science Bulletin, 2018-2022
- Organizer, Annual Meeting of Chinese Physical Society (Surface and Low-dimensional Physics Division), 2017-present
- Advisory Committee Member, The 9th Joint Meeting of Chinese Physicists Worldwide (Condensed Matter and Material Science Division), Beijing, July 17-20, 2017
- Editorial Board Member, Acta Physica Sinica, 2016-present
- Editorial Board Member, Chinese Physics B, 2016-present
- Advisory Board Member, AIP Publication China, 2015-2017
- Editorial Advisory Board Member, Chemical Physics, 2014-2017
- Organizer, International Conference on Water Sciences 2014, Beijing, Apr. 14-17, 2014
- Academic Board Member, State Key Lab for Surface Physics of Institute of Physics, Chinese Academy of Sciences, 2011-present
- Academic Board Member, R&D Center for Instrumentation and Technology of Peking University, 2011-present
- Referee for journals: Nature and its sub-journals, Science and its sub-journals, Phys. Rev. Lett., Phys. Rev. B, Phys. Rev. series, J. Am. Chem. Soc., Nano Lett., ACS series, Chem. Soc. Rev., National Science Review, J. Chem. Phys., J. Phys. Chem., Surf. Sci. etc.
- Session chairs for international conferences: ICMAT2019, OCPA9, SICC9, ICSPM24, ICN+T2014, CPS, ICWS etc.

Teaching:

- "Surface Physics", fall semester, 2010-present.
- "Modern Physics Experiments", spring and fall semester, 2015-present.
- Supervised 20+ undergraduate theses, 16 Ph.D. theses and 6 Postdoctors.

Invited talks in conferences/symposiums/workshops (selected out of 150):

 The 10th International Symposium on Surface Science (ISSS-10), Kita-kyushu, Japan, Oct. 20-24, 2024

Invited talk, "Two-dimensional water ices on surfaces."

 The 372nd Shuang Qing Forum of NSFC on " Molecular- and Nano-scale Water ", Beijing, China, Aug. 19-20, 2024

Keynote talk, "Structure and novel effects of low-dimensional water and ice."

- 3. Gordon Research Conference: Water and Aqueous Solutions, Holderness, USA, July 21-26, 2024 Invited talk, "Structure and transport of water and ions under 2D confinement."
- 4. China Conference on Scanning Probe Microscopy (ChinaSPM 2024), Kunming, China, July 15-17, 2024

Plenary talk, "Unravelling the molecular origin of water/ice anomaly with scanning probe microscopy."

- The 34th Chinese Chemical Society Annual Meeting, Guangzhou, China, Jun. 15-18, 2024 Keynote talk, "Surface structure and premelting of ice."
- AVS 69th International Symposium & Exhibition, Portland, USA, November 5-10, 2023. Invited talk, "Unravelling the Mysteries of Water and Ice: A Journey Starting from Single Water Molecule."
- 7. Faraday Discussion Conference: Water at interfaces, London, Sep. 20-22, 2023 Headline talk, "Ion-ion interaction under 2D confinement."
- The 38th IUPAC International Conference on Solution Chemistry, Belgrade, July 9-14, 2023.
 Plenary talk, "Probing interfacial ion-water interaction with atomic resolution."
- 9. The 33rd Chinese Chemical Society Annual Meeting, Qingdao, China, Jun. 17-20, 2023 **Keynote talk**, "Atomic-scale study of complex structure and novel effects of water."
- German Physical Society Spring Meeting, Dresden, March 36-31, 2023.
 Topical talk, "Peering into interfacial water by qPlus-based atomic force microscopy."
- 11. Korean Physical Society 70th Anniversary and 2022 Fall Meeting, Busan, Korea, Oct. 18-21, 2022 **Invited talk**, "Coherence enhancement of a quantum sensor by local electric field of a SPM tip."
- The 22nd International Vacuum Congress (IVC-22), Sapporo, Japan, Sep. 11-16, 2022
 Invited talk, "Coherence enhancement of solid-state qubits by scanning probe microscopy."
- Frontiers in Native Mass Spectrometry and Single Molecule Imaging (MS+M), Wadham College of the University of Oxford, Aug. 14-18, 2022
 Invited talk, "Atomic insights into the interfacial ion-water interaction."
- The 20th International Workshop on Quantum Atomic and Molecular Tunneling Systems, Canmore, Canada, May 15-20, 2022
 Keynote talk, "Atomic insights into nuclear quantum effects of interfacial water."
- The 2nd International Forum on Microscopy (IFM 2021), Online, Nov. 14-15, 2021
- Keynote talk, "Probing interfacial ion-water interaction with atomic resolution."
- JPC Virtual Summit on Advances in Energy and Catalysis, Online, July 28, 2021 Invited talk, "Probing interfacial ion-water interaction with atomic resolution."
- The International Youth Conference of Bionic Science and Engineering Conference 2021 (IYCBSE2021), Online, July 17-18, 2021
 - Keynote talk, "Probing ion-water interaction at interfaces with atomic resolution."
- The 17th National Conference on Low-Temperature Physics, Jinhua, China, Jun. 3-6, 2021 Plenary talk, "Atomic-scale study and manipulation of two-dimensional ice."
- 19. The 699th Xiangshan Science Conference "Microscopic structure and dynamics of water", Beijing,

China, Apr. 27-28, 2021

Invited talk, "Atomic-scale study of water/solid interfaces."

- 20. Annual meeting of Japanese Vacuum and Surface Society, Online, Nov. 19-20, 2020 Invited talk, "Probing interfacial water by H-sensitive atomic force microscopy."
- 21. American Physics Society March Meeting, Denver, Colorado, U.S.A., March 2-6, 2020 Invited talk, "Probing interfacial water by H-sensitive and non-invasive scanning probe microscopy."
- The 7th International Conference on Tip-Enhanced Raman Spectroscopy (TERS-7), Xiamen, China, Nov. 9-12, 2019
 Keynote talk, "Probing molecular vibration and polaron dynamics at atomic scale."

World Laureates Association Forum: Young Scientists Forum, Shanghai, Oct. 29-31, 2019

Plenary talk, "Peering into the water at atomic scale."

24. The 10th International Conference on Materials for Advanced Technologies (ICMAT 2019), Singapore, June 24-28, 2019

Invited talk, "Peering into Nanostructured Water/Ice by Scanning Probe Microscopy."

 APCTP-KIAS Quantum Materials Symposium 2019 (QMS2019) , YongPyong, Korea, Feb. 10-15, 2019

Invited talk, "2D materials at the boundaries and edges: a combined STM and AFM study."

- The 9th Asian Conference on Nanoscience & Nanotechnology, Qingdao, China, Oct. 18-21, 2018 Keynote talk, "Phase engineering of monolayer MoS₂."
- CECAM Workshop "Heterogeneous Ice Nucleation: The Ultimate Challenge for Molecular Modelling?" Lausanne, Switzerland, Sep.18-21, 2018
 Invited talk, "Probing surface water at submolecular level by scanning probe microscopy: from clusters to 2D layers."
- The 34th European Conference on Surface Science, Aarhus, Denmark, August 26-31, 2018
 Invited talk, "Visualizing interfacial ion hydration and transport at molecular level."
- International Conference on Nanoscience + Technology (ICN+T), Brno, Czech Republic, July 22-27, 2018

Invited talk, "Probing interfacial water at submoleuclar level by scanning probe microscopy."

- The 255th ACS National Meeting, New Orleans, LA, USA, Mar. 18-22, 2018 Invited talk, "Probing photoexcitation and transient charge dynamics of TiO₂(110) at atomic scale."
- ACS Publications Symposium: Innovation in Energy Conversion A Physical Chemistry Perspective, Dalian, China, Sep. 24-26, 2017

Invited talk, "Atomic-scale charge dynamics of single oxygen vacancies on TiO2(110)."

- 32. The 9th Joint Meeting of Chinese Physicists Worldwide (OCPA9), Beijing, China, July 17-20, 2017 **Keynote talk**, "Photo-excited carrier dynamics of single defects on TiO2 (110) probed by a lasercombined STM/S."
- The 9th International Conference on Advanced Vibrational Spectroscopy, Victoria, BC, Canada, June 11-16, 2017

Plenary talk, "Probing molecular vibration at single-molecule level by tip-enhanced IETS."

- Symposium on Surface Science & Nanotechnology (SSSN-Kansai), Kyoto, Japan, Jan. 24-25, 2017 Invited talk, "Tip-enhanced Inelastic Electron Tunneling Spectroscopy."
- 35. The 24th International Colloquium on Scanning Probe Microscopy, Hawaii, USA, Dec.14-16, 2016

Invited talk, "Quantum motion of protons in water probed by STM/S."

- 36. The 9th Singapore International Chemical Conference, Singapore, Dec.11-14, 2016. Invited talk, "Tip-enhanced inelastic electron tunnelling spectroscopy and its application in surface chemistry."
- The 15th International Workshop on Dynamics, Interactions and Electronic Transitions at Surfaces, Shanghai, China, Oct. 10-13, 2016
 Invited talk, "Tip-enhanced Inelastic Electron Tunneling Spectroscopy."
- 38. International Workshop on Nanomaterials and Nanodevices, Beijing, China, July 8-10th, 2016 Plenary talk, "Quantum motion of protons in water probed by STM/S."
- 39. American Physics Society March Meeting. Baltimore, Maryland, USA, March 14-18, 2016 Invited talk, "High-resolution imaging and spectroscopy of interfacial water at single bond limit."
- The 18th National Conference on Light Scattering, Chengdu, China, Oct. 22-25, 2015.
 Plenary talk, "Inelastic electron tunneling spectroscopy (IETS) and its applications in hydrogenbonded systems."
- The 15th International Conference on Vibrations at Surfaces, San Sebastian, Spain, June 22-26, 2015.

Invited talk, "Probing nuclear quantum effects in water with scanning tunneling microscopy and spectroscopy."

- AVS 61st International Symposium & Exhibition, Baltimore, Maryland, Nov. 9-14, 2014.
 Invited talk, "Probing the quantum nature of hydrogen bonds at single bond limit in interfacial water."
- International Conference on Nanoscience + Technology (ICN+T), Vail, Colorado, USA, July 20-25, 2014

Invited talk, "Peering into Interfacial Water with Submolecular Resolution."

44. International Conference on Water Sciences, Beijing, China, April 14-17, 2014 **Plenary talk**, "Visualization of the proton tunneling in cyclic ice nanoclusters."