Professor Jimin Zhao

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Affiliation

2015.09-current	Professor	Institute of Physics, Chinese Academy of Sciences
2007.01-2015.08	Associate Professor	Institute of Physics, Chinese Academy of Sciences

Research Interest

Ultrafast dynamics of quantum materials, including superconductors, topological materials, 2D layered materials. Pump-probe investigation of quasiparticle ultrafast dynamics, coherent control of bosonic elementary excitations, time-resolved nonlinear ultrafast optical spectroscopies of condensed matters under low temperature and high magnetic field.

Degrees and Experience

2004-2006	University of Iowa	Postdoctoral Research Scholar
1998-2004	University of Michigan	Ph.D. Physics Advisor: Professor Roberto Merlin
1995-1998	Tsinghua University, Beij	ing, China M.S. Physics
1990-1995	Tsinghua University, Beij	ing, China B.S. Physics

Publications

- 1. Fei Sun, Q. Wu, Y. L. Wu, H. Zhao, C. J. Yi, Y. C. Yian, H. W. Liu, Y. G. Shi, H. Ding, X. Dai, P. Richard, and <u>Jimin Zhao*</u>, Coherent helix vacancy phonon and its ultrafast dynamics waning in topological Dirac semimetal Cd₃As₂, **Physical Review B** 95, 235108 (2017).
- 2. Yichao Tian, W. H. Zhang, F. S. Li, Y. L. Wu, Q. Wu, F. Sun, G. Y. Zhou, Lili Wang, Xucun Ma*, Qi-Kun Xue*, <u>Jimin Zhao*</u>, *Ultrafast Dynamics Evidence of High Temperature Superconductivity in Single Unit Cell FeSe on SrTiO*₃, **Physical Review Letters** 116, 107001 (2016).
- 3. W. H. Wang, Y. L. Wu, Q. Wu, J. J. Hua, <u>Jimin Zhao*</u>, Coherent Nonlinear Optical Response Spatial Self-Phase Modulation in MoSe₂ Nano-Sheets, Scientific Reports 6, 22072 (2016).
- 4. Y. L. Wu, L. L. Zhu, Q. Wu, F. Sun, J. K. Wei, Y. C. Tian, W. L. Wang, X. D. Bai, Xu Zuo*, <u>Jimin Zhao*</u>, Electronic Origin of Spatial Self-phase Modulation: Evidenced by Comparing Graphite with C₆₀ and Graphene, **Applied Physics Letters** 108, 241110 (2016).

- 5. Zhida Song, <u>Jimin Zhao</u>, Zhong Fang, Xi Dai, *Detecting the chiral magnetic effect by lattice dynamics in Weyl semimetals*, **Physical Review B** 94, 214306 (2016).
- 6. YanlingWu, QiongWu, Fei Sun, Cai Cheng, Sheng Meng*, <u>Jimin Zhao*</u>, Emergence of electron coherence and two-color all-optical switching in MoS₂ based on spatial self-phase modulation, **Proc. Natl. Acad. Sci.** USA 112, 11800 (2015).
- 7. Yichao Tian, He Tian, Y. L. Wu, L. L. Zhu, L. Q. Tao, W. Zhang, Y. Shu, D. Xie, Y. Yang, Z. Y. Wei, X. H. Lu, Tian-Ling Ren*, Chih-Kang Shih*, <u>Jimin Zhao*</u>, *Coherent Generation of Photo-Thermo-Acoustic Wave from Graphene Sheets*, Scientific Reports 5, 10582 (2015).
- 8. Chandan Setty, <u>Jimin Zhao</u>, Jiangping Hu*, *Probing superconductivity and pairing symmetry by coherent phonons in multiorbital superconductors*, **Physical Review B** 92, 140504 (2015).
- 9. Fei Sun, Rui Wang, C. Aku-Leh, H. X. Yang, Rui He*, and <u>Jimin Zhao*</u>, *Double Charge Ordering States and Spin Ordering State Observed in a RFe*₂O₄ System, Scientific Reports 4, 6429 (2014).
- 10. Shaofeng Ge, Xuefeng Liu, Xiaofen Qiao, Qinsheng Wang, Zhen Xu, Jun Qiu, Ping-Heng Tan, <u>Jimin Zhao</u>, Dong Sun, *Coherent Longitudinal Acoustic Phonon Approaching THz Frequency inMultilayer Molybdenum Disulphide*, **Scientific Reports** 4, 5722(2014).
- 11. L. B. Liao, Q. H. Zhang, Z. H. Su, Z. Z. Zhao, Y. N. Wang, Y. Li, X. X. Lu, D. G. Wei, G. Y. Feng, Q. K. Yu, X. J. Cai, <u>Jimin Zhao</u>, Z. F. Ren, H. Fang, F. Robles-Hernandez, S. Baldelli and Jiming Bao, *Efficient solar water-splitting using a nanocrystalline CoO photocatalyst*, Nature Nanotechnology 9, 69 (2014).
- 12. ShizeYang, Xuezeng Tian, Lifen Wang, Jiake Wei, Kuo Qi, Xiaomin Li, Zhi Xu, Wenlong Wang, <u>Jimin Zhao</u>, Xuedong Bai, and Enge Wang, *In-situ optical transmission electron microscope study of exciton phonon replicas in ZnO nanowires by cathodoluminescence*, **Appl. Phys. Lett.** 105, 071901 (2014).
- 13. B. L. Wang, R. Wang, R. J. Liu, X. H. Lu, <u>Jimin Zhao</u>*, Z. Y. Li*, *Origin of Shape Resonance inSecond-Harmonic Generation fromMetallic Nanohole Arrays*, **Scientific Reports** 3, 2358 (2013).
- 14. X. D. Guo, L. Dong, Y. Guo, X. Y. Shan, <u>Jimin Zhao</u> and Xinghua Lu, *Detecting larmor precession of a single spin with spin-polarized tunneling current*, **Chin. Phys. Lett.** 30, 017601 (2013).
- 15. Nan Xie, H. Q. Gong, S. C. Yan, <u>Jimin Zhao</u>, X. Y. Shan, Y. Guo, Q. Sun and Xinghua Lu, *Tip expansion in a laser assisted scanning tunneling microscope*, **Appl. Phys. Lett.** 101, 213104 (2012).
- 16. **赵继民**, 表面物理的超快光谱学研究, **《现代物理知识》**, 第24卷, 第1期, 44 (2012).

- 17. R. Wu, Y. L. Zhang, S. C. Yan, F. Bian, Wenlong Wang, Xuedong Bai, Xinghua Lu, <u>Jimin</u> <u>Zhao</u>*, Enge Wang, *Purely coherent nonlinear optical response in solution dispersions of graphene sheets*, Nano Letters11, 5159 (2011).
- 18. F. Bian, Y. C. Tian, R. Wang, H. X. Yang, H. X. Xu, Sheng Meng, and <u>Jimin Zhao</u>, *Ultrasmall Silver Nanopores Fabricated by Femtosecond Laser Pulses*, Nano Letters11, 3251 (2011).
- 19. <u>赵继民</u>, 超快光谱技术及其在凝聚态物理研究中的应用,《物理》,第 40 卷,第 3 期, 184 (2011).
- 20. R. Wang, H. X. Yang, Y. Qin, B. Dong, J. Q. Li, and <u>Jimin Zhao</u>, *Photoluminescence in electronic ferroelectric Er_{1-x}Yb_xFe₂O₄*, **J. Appl. Phys.** 108, 073507 (2010).
- 21. Fei Bian, R. Wang, H. X. Yang, X. Z. Zhang, J. Q. Li, H. X. Xu, J. J. Xu, <u>Jimin Zhao</u>, Laser-Driven Silver Nanowire Formation: The Effect of Femtosecond Laser Pulse Polarization, Chin. Phys. Lett. 27, 088101 (2010).
- 22. Zhanglong Liu, Zengxia Mei, Rui Wang, <u>Jimin Zhao</u>, Huili Liang, Yang Guo, Andrej Yu Kuznetsov and Xiaolong Du, *Alloy-fluctuation-induced exciton localization in high-Mg-content* ($0.27 \le x \le 0.55$) wurtzite $Mg_xZn_{1-x}O$ epilayers, **J. Phys. D: Appl. Phys.** 43, 285402 (2010).
- 23. X.F.Han, Y. X. Weng, R. Wang, X. H. Chen, K. H. Luo, L.-A. Wu, and <u>Jimin Zhao</u>, Single-photon level ultrafast all-optical switching, **Appl. Phys. Lett.** 92, 151109 (2008). See also Nature Photonics 2, 331 (2008).
- 24. N. Cao, Y.B. Long, Z.G. Zhang, J. Yuan, L.J. Gao, B.R. Zhao, S.P. Zhao, Q.S. Yang, <u>Jimin</u> <u>Zhao</u>, and Panming Fu, *Quasiparticle relaxation dynamics in n-type superconductor* $La_{2-x}Ce_xCuO_4$, **Physica** C468,894-897 (2008).
- 25. N. Cao, Y. F. Wei, <u>Jimin Zhao</u>, S. P. Zhao, Q. S. Yang, Z. G. Zhang, P. M. Fu, Femtosecond Optical Detection of Quasiparticle Dynamics in Single-CrystalBi₂Sr₂CaCu₂O_{8+δ}, Chin. Phys. Lett. 25, 2257 (2008).
- 26. 曹宁,龙拥兵,张治国,高丽娟,袁洁,赵伯儒,赵士平,杨乾生,<u>赵继民,</u>傅盘铭,电子型掺杂高温超导体 La_{2-x}Ce_xCuO₄ 飞秒时间分辨动力学研究,《**物理学报》57**, 2543 (2008).
- 27. <u>Jimin Zhao</u>, A. V. Bragas, R. Merlin, and D. J. Lockwood, *Magnon squeezing in antiferromagnetic MnF*₂ and FeF₂, **Physical Review B**, 73, 184434 (2006).
- 28. J. P. Prineas, W. J. Johnston, M. Yildirim, <u>J. Zhao</u>, and A. L. Smirl, *Tunable slow light in Bragg-spaced quantum wells*. **Appl. Phys. Lett.89**, 241106 (2006).

- 29. C. Aku-Leh, <u>Jimin Zhao</u>, R. Merlin, J. Menéndez, and M. Cardona, *Long-lived optical phonons in ZnO studied with impulsive stimulated Raman scattering*, **Physical Review B**, 71, 205211 (2005).
- 30. <u>Jimin Zhao</u>, A. V. Bragas, D. J. Lockwood, and R. Merlin, *Magnon squeezing in an antiferromagnet: reducing the spin noise below the standard quantum limit*,**Physical Review Letters**, 93, 107203 (2004).
- 31. A. V. Bragas, C. Aku-Leh, S. Costantino, Alka Ingale, <u>J. Zhao</u>, and R. Merlin, *Ultrafast optical generation of coherent phonons in CdTe*_{1-x}Se_x quantum dots, **Physical Review B**, 69, 205306 (2004).
- 32. <u>Jimin Zhao</u>, Jun Ni, Hui Hu, Jiajiong Xiong, Jialin Zhu, *Effects of inhomogeneous strain of quantum-well structures on the band-structure and gain*, **Journal of Tsinghua University** (Science and Technology), 39, 11-14 (1999).

Services

Editorial Board Member for: Scientific Reports

Reviewer for: Physical Review Letters, Nature Materials, Nature Communications, Nano Letters, Scientific Reports, Applied Physics Letters, ACS Nano, Nanoscale, Laser&Photonics Review, J. Physical Chemistry, Chinese Physics Letters, Journal of Nanomaterials

Invited Talks

- 1. <u>Jimin Zhao</u>, Laser-induced electron coherence in 2D quantum materials, The 38th PIERS Conference in St Petersburg, Russia, May 22-25 (2017).
- 2. <u>Jimin Zhao</u>, Ultrafast dynamics evidence of high temperature superconductivity in single unit cell FeSe on SrTiO₃, 10th International Conference on Computation Physics, Macao SAR China, January 16-20 (2017).
- 3. <u>Jimin Zhao</u>, *Ultrafast dynamics evidence of high temperature superconductivity in single unit cell FeSe on SrTiO*₃, IOP-PSI Joint Workshop, 北京雁栖湖, October 30-November 1 (2016).
- 4. <u>Jimin Zhao</u>, 单层 $FeSe/SrTiO_3$ 界面超导的超快动力学研究,中国科学院高能物理研究所. 2016 年 9 月 13 日。
- 5. <u>Jimin Zhao</u>, *Ultrafast dynamics evidence of high temperature superconductivity in single unit cell FeSe on SrTiO*₃, 中国物理学会 2016 年秋季学术会议. 北京工业大学. 2016 年 9 月 2-4 日。
- 6. <u>Jimin Zhao</u>, 二维量子材料中激光诱导的电子相干性, 中国物理学会 2016 年秋季学术会议. 北京工业大学. 2016 年 9 月 2-4 日。
- 7. <u>Jimin Zhao</u>, *Ultrafast dynamics evidence of high temperature superconductivity in single unit cell FeSe on SrTiO*₃, 第三届全国超快光谱研讨会,合肥,2016年8月19-21日。
- 8. <u>Jimin Zhao</u>, *Ultrafast dynamics evidence of high temperature superconductivity in single unit cell FeSe on SrTiO*₃, 6th Joint ICQs Annual Workshop, Institute of Physics, Chinese Academy of Sciences, Beijing, June 12-14 (2016).

- 9. <u>Jimin Zhao</u>, *Ultrafast dynamics evidence of high temperature superconductivity in single unit cell FeSe on SrTiO*₃, 14th Beijing Forum on High-Temperature Superconductivity (BFHTS), Dali, Yunnan, May 30-June 3 (2016).
- 10. **Jimin Zhao**, *单层 FeSe/SrTiO*₃ *界面超导的超快动力学研究*,四川大学物理学院. 2016 年 4 月 23 日。
- 11. **Jimin Zhao,** *量子材料的超快动力学*, 重庆大学物理系, 2016年4月21日。
- 12. **Jimin Zhao**, 单层 FeSe/SrTiO₃ 界面超导的超快动力学研究,清华大学低维量子物理国家重点实验室,2016 年 4 月 19 日。
- 13. <u>Jimin Zhao</u>, The cool physics of surfing ultrafastly in the Fermi sea, Lecture series on frontiers of condensed matter physics, Institute of Physics, Chinese Academy of Sciences, Dec. 22 (2015).
- 14. <u>Jimin Zhao</u>, Emergence of electron coherence in MoS₂ induced by spatial self-phase modulation, 北京计算科学研究中心, 2015 年 11 月 3 日。
- 15. <u>Jimin Zhao</u>, Emergence of Electron Coherence in MoS₂ Induced by SSPM, Peking University, Oct. (2015)
- 16. <u>Jimin Zhao</u>, Coherent Generation of Photo-Thermo-Acoustic Wave from Graphene Sheets, 第十八届全国光散射学术会议,四川大学, 2015年10月23-25日。
- 17. <u>Jimin Zhao</u>, *Ultrafast spectroscopy toward generating coherence in a few quantum materials*, SPIE Optics and Photonics 2014, San Diego, California, 17-21th Aug, USA (2014).
- 18. <u>Jimin Zhao</u>, *Ultrafast Optical Generation of Coherence in Layered Quantum Materials*, Nanotechnology Conference, Trinity College Dublin, 12-14th May, Ireland (2014).
- 19. <u>Jimin Zhao</u>, Purely coherent nonlinear optical response in graphene sheets: Spatial self phase modulation, The 7th International conference on materials for advanced technologies, June 30-July 5, Suntec Singapore (2013).
- 20. <u>Jimin Zhao</u>, Purely coherent nonlinear optical response in graphene sheets--Spatial self-phase modulation, The 1st Germany-China young scientist symposium on ultrafast light sources and spectroscopy applications, June 24-26, DESY, Hamburg Germany (2013).
- 21. <u>赵继民</u>, Purely Coherent Nonlinear Optical Response from Graphene Sheets: Spatial Self-Phase Modulation, 第十七届全国光散射学术会议, 西安, 2013年10月19-22日。
- 22. <u>赵继民</u>, Spatial Self-Phase Modulation in Graphene-related Materials: Coherent Response & Remarkably Large χ⁽³⁾,第十九届全国半导体物理学术会议(威海), 2013 年 7 月。
- 23. <u>Jimin Zhao</u>, Spatial self-phase modulation in graphene: purely coherent nonlinear optical response, CPS Fall meeting (Guangzhou, Sun Yat-Sen University), Sept. 2012.
- 24. <u>Jimin Zhao</u>, *Unusually strong Stark effect in electronic ferroelectric Er*_{1-x}*Yb*_x*Fe*₂*O*₄, SKLSM, Institute of Semiconductors, Chinese Academy of Sciences, April 2012.
- Jimin Zhao, Ultrasmall Silver Nanopores Fabricated by Femtosecond Laser Pulses, Lectures on cutting-edge research in condensed matter physics, Institute of Physics, Chinese Academy of Sciences, Nov. 2011.
- 26. <u>Jimin Zhao</u>, *Ultrasmall Silver Nanopores Fabricated by Femtosecond Laser Pulses*, International Symposium on Nanoscale Science and Technology by China (Hangzhou), Oral

- invited, Oct. 2011.
- 27. <u>Jimin Zhao</u>, Ultrasmall Silver Nanopores Fabricated by Femtosecond Laser Pulses, International Center of Quantum Materials, Beijing University, Sept. 2011.
- 28. <u>Jimin Zhao</u>, Coherent generation of quantum squeezed states of magnons (spin waves) through impulsive stimulated Raman scattering, The 6th International Workshop on Surfaces Focused on Plasmonics, Institute of Physics, Beijing (2007).
- 29. <u>Jimin Zhao</u>, Coherent generation of spin waves and lattice waves using femtosecond optical pulses: Driving and tracing the ultrafast oscillations, China-Italy Joint Workshop on Guided Self-assembly of Nanostructures, Institute of Physics, Beijing (2007).
- 30. <u>Jimin Zhao</u> et al., Magnon Squeezing in an antiferromagnet: reducing the spin noise below the standard quantum limit. (oral invited) SPIE Third International Symposium on Fluctuations and Noise, SPIE, Austin, Texas, May 24 (2005).

Awards

- 1. <u>Jimin Zhao</u>, Spatial self-phase modulation in graphene: purely coherent nonlinear optical response, The 4th International Conference of Recent Progress in Graphene Research, Beijing, Oct. 3-6, 2012. **Best Poster Prize.**
- 2. <u>赵继民</u>等*,多铁 Er_{1-x}Yb_xFe_2O_4 的荧光光谱研究*,中国物理学会秋季学术会议,浙江大学,2011 年 9 月。**Best Poster Prize.**
- 3. C. Aku-Leh, <u>Jimin Zhao</u>, R. Merlin, L. Shi, J. Menéndez, and M. Cardona, <u>Long-lived optical phonons in ZnO studied with impulsive stimulated Raman Scattering</u>, 27thInternational Conference on the Physics of Semiconductors, Flagstaff, Arizona, July 2004. **Second Best Paper Prize**.

Contributed Presentations at International Conferences

- 1. <u>Jimin Zhao</u>, *Ultrafast Photo-Carrier Dynamics and Coherent Phonon Excitations in Topological Dirac Semimetal Cd*₃As₂, American Physical Society (APS) March Meeting, Baltimore, Maryland, USA, March 2016.
- 2. <u>Jimin Zhao</u>, Coherent Generation of Photo-Thermo-Acoustic Wave from Graphene Sheets, American Physical Society (APS) March Meeting, Baltimore, Maryland, USA, March 2016.
- 3. <u>Jimin Zhao</u>, *Nonlocal Electron Coherence in MoS*₂ *Flakes Correlated through Spatial Self Phase Modulation*, American Physical Society (APS) March Meeting, San Antonio, USA, March 2015.
- 4. <u>Jimin Zhao</u>, *Double Charge Ordering States and Spin Ordering State Observed in a RFe*₂O₄ system, American Physical Society (APS) March Meeting, San Antonio, USA, March 2015.
- Jimin Zhao, Coherent A_{1g} Phonon in FeSe_{0.5}Te_{0.5}: π/2 Phase Difference across Superconducting Phase Transition, American Physical Society (APS) March Meeting, Denvor, USA, March 2014.
- 6. <u>Jimin Zhao</u>, *Critical Role of Modal Spatial Overlap in Nanoscale Nonlinear Optics*, American Physical Society (APS) March Meeting, Baltimore, USA, March 2013.

- 7. <u>Jimin Zhao</u>, Spatial Self-Phase Modulation in Graphene Sheets: Purely Coherent Nonlinear Optical Response, The 4th International Conference on Recent Progress in Graphene ResearchOct. 3-6, Beijing, China (2012).
- 8. <u>Jimin Zhao</u>, *Ultrasmall Silver Nanopores Fabricated by Femtosecond Laser Pulses*, American Physical Society (APS) March Meeting, Boston, USA, March 2012.
- 9. <u>Jimin Zhao</u>, Spatial Self-Phase Modulation in Graphene Sheets and Related Material: Purely Coherent Nonlinear Optical Response, 6th International Conference on Nanophotonics, May 28-30, Peking University (2012).
- 10. Y. C. Tian, F. Bian, R. Wang, H. X. Yang, Hongxing Xu, Sheng Meng, and <u>Jimin Zhao</u>, *Ultrasmall Silver Nanopores Fabricated by Femtosecond Laser Pulses*, 6th International Conference on Nanophotonics, May 28-30, Peking University (2012).
- 11. <u>Jimin Zhao</u> *et al.*, *Unusually strong Stark effect in electronic ferroelectricEr*_{1-x}*Yb*_x*Fe*₂*O*₄, American Physical Society (APS) March Meeting, Dallas, USA, March 2011.
- 12. Rui Wu, Yingli Zhang, Fei Bian, Shichao Yan, Rui Wang, Wenlong Wang, Xuedong Bai, Xinghua Lu, <u>Jimin Zhao</u>, *Broadband spatial self-phase modulation of few-layer graphene sheet insolution*, American Physical Society (APS) March Meeting, Dallas, USA, March 2011.
- 13. <u>Jimin Zhao</u> et al., Coherent generation of quantum squeezed states of magnons (spin waves) through impulsive stimulated Raman scattering, The 6th International Workshop on Surfaces Focused on Plasmonics, Beijing, 2007.
- Jimin Zhao et al., Coherent generation of spin waves and lattice waves using femtosecond optical pulses: Driving and tracing the ultrafast oscillations, China-Italy Joint Workshop on Guided Self-assembly of Nanostructures, Beijing, 2007.
- 15. <u>Jimin Zhao</u>, D. J. Lockwood, R. Merlin, *Magnon Squeezing in FeF*₂, Conference on Lasers and Electro-Optics/International Quantum Electronics Conference (CLEO/IQEC), San Francisco, California, May 2004.
- 16. <u>Jimin Zhao</u>, D. J. Lockwood, R. Merlin, *Magnon Squeezing in FeF*₂. American Physical Society (APS) March Meeting, Montreal, Canada, March 2004.
- 17. <u>Jimin Zhao</u>, A. V. Bragas, D. J. Lockwood, R. Merlin, *Observation of spin squeezing in MnF*₂. Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science Conference (CLEO/QELS), Baltimore, Maryland, May 2003.
- 18. <u>Jimin Zhao</u>, A. V. Bragas, D. J. Lockwood, R. Merlin, *Magnon Squeezing in MnF*₂. American Physical Society (APS) March Meeting, Austin, Texas, March 2003.
- 19. C. Aku-Leh, <u>Jimin Zhao</u>, R. Merlin, L. Shi, J. Menéndez, and M. Cardona, *Anharmonic interactions and the lattice dynamics of wurtzite semiconductors*, March Meeting of the American Physical Society, Montreal, Canada, March 2004.
- 20. C. Aku-Leh, <u>Jimin Zhao</u>, R. Merlin, and J. Menéndez, *Coherent optical phonons with very large quality factors: the E₂-low mode in ZnO*, Conference on Lasers and Electro-Optics/International Quantum Electronics Conference (CLEO/IQEC), San Francisco, California, May 2004.
- 21. C. Aku-Leh, Jimin Zhao, R. Merlin, L. Shi, J. Menéndez, and M. Cardona, Long-lived

- optical phonons in ZnO studied with impulsive stimulated Raman Scattering, 27th International Conference on the Physics of Semiconductors, Flagstaff, Arizona, July 2004.
- 22. Andrea V. Bragas, Cynthia Aku-Leh, <u>Jimin Zhao</u>, and Roberto Merlin, *Size-selective* generation of coherent acoustic phonons in semiconductor nanocrystals, March Meeting of the American Physical Society, Indianapolis, Indiana, March 2002.

Professional Memberships

American Physical Society, Optical Society of America, Chinese Physical Society, Chinese Optical Society