

## WEILI ZHANG

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### PRESENT POSITION

Professor  
School of Electrical and Computer Engineering  
Oklahoma State University

### AREAS OF INTEREST

Terahertz optoelectronics, nano- and micro-structured materials optics, ultrafast phenomena, and semiconductor photonics

### EDUCATION

Ph.D., Optical Engineering, Tianjin University, P.R. China, 1993  
M.S., Optical Engineering, Tianjin University, P.R. China, 1990  
B.S., Laser Science, Tianjin University, P.R. China, 1987

### PROFESSIONAL EXPERIENCE

Professor, School of Electrical and Computer Engineering, Oklahoma State University, 2011-present  
Associate Professor, School of Electrical and Computer Engineering, Oklahoma State University, 2002-2005, tenure-track; 2006-2011, tenured  
Visiting Associate Professor, School of Electrical and Computer Engineering, Oklahoma State University, 2000-2001  
Professor & Vice Chairman, Department of Optoelectronics Information Engineering, Tianjin University, P. R. China, 1997-2001  
Visiting Professor, Department of Physics, The Hong Kong University of Science & Technology, Hong Kong, 1998.6-1998.9  
Associate Professor, College of Precision Instruments & Optoelectronics Engineering, Tianjin University, P. R. China, 1995-1997  
Post-Doctoral Research Associate, Department of Physics, The Hong Kong University of Science & Technology, Hong Kong, 1993-1995

### PROFESSIONAL SERVICE

Associate Editor-in-Chief, *Photonix*, 2018-present  
Associate Editor/Topical Editor, *Chinese Optics Letters*, 2014-2023  
Primary Guest Editor, *IEEE Journal of Selected Topics in Quantum Electronics*, *Special issue: Terahertz Photonics*, 2017  
Editorial Board, *Scientific Reports*, 2014-present; *Materials*, 2021-23  
Member, Technical Program Committee, 9<sup>th</sup> International Conference on Optical Terahertz Science and Technology (OTST 2022), Budapest, Hungary, 24-29 April 2022  
Adjunct Professor, Tianjin University, 2002-present

Journal Review (40+ Journals): *Nature Photonics, Nature Physics, Nature Communications, Nature Materials, Science Advances, Advanced Materials, Physical Review Letters, Advanced Optical Materials, IEEE Transactions on Terahertz Science and Technology, Applied Physics Letters, Optics Letters, etc.*

## UNIVERSITY, COLLEGE AND DEPARTMENT SERVICE

Vice Chair, Laser Safety Committee, Oklahoma State University, 2015-present  
Chairman, Cumulative Review Committee, School of Electrical and Computer Engineering, 2015, 2018-present  
Graduate Coordinator, School of Electrical and Computer Engineering, 2019-present

## HONORS AND AWARDS

Highly Cited Researcher, Web of Science, 2019, 2020  
Fellow, The Optical Society (OSA), 2015  
Regents Distinguished Research Award, Oklahoma State University, 2015

## PUBLICATIONS

**357** invited or contributed publications in peer-reviewed journals. Web of Science Citations: **13,827**, h-index: **62**, ESI Highly Cited Papers: **14**; Scopus Citations: **14,665**, h-index: **65**; Google Scholar Citations: **17,740**, h-index: **69**

### Selected Journal Publications

1. Jiao Li, Yixin Yao, Liwen Jiang, Shuai Li, Zhihao Yi, Xieyu Chen, Zhen Tian, and **Weili Zhang**, "Time-domain terahertz optoacoustics: manipulable water sensing and dampening," *Advanced Photonics* **3**, 026003 (2021).
2. Yuehong Xu, Huifang Zhang, Quan Li, Xueqian Zhang, Quan Xu, Wentao Zhang, Cong Hu, Xixiang Zhang, Jiaguang Han, and **Weili Zhang**, "Generation of terahertz vector beams using dielectric metasurfaces via spin-decoupled phase control," *Nanophotonics* **9**, 3393-3402 (2020). (*Invited paper*)
3. Xueqian Zhang, Quan Xu, Lingbo Xia, Yanfeng Li, Jianqiang Gu, Zhen Tian, Chunmei Ouyang, Jiaguang Han, and **Weili Zhang**, "Terahertz surface plasmonic waves: a review," *Advanced Photonics* **2**, 014001 (2020). (*Invited paper*)
4. Yuping Yang, Hailing Liu, Menghan Yang, Bin Cui, and **Weili Zhang**, "Dielectric sphere-coupled THz super-resolution imaging," *Applied Physics Letters* **113**, 031105 (2018).
5. Leena Singh, Ranjan Singh, and Weili Zhang, "Ultra-high terahertz index in deep subwavelength coupled bi-layer free-standing flexible metamaterials," *Journal of Applied Physics* **121**, 233103 (2017).
6. Ningning Xu, Ranjan Singh, and **Weili Zhang**, "High-Q lattice mode matched structural resonances in terahertz metasurfaces," *Applied Physics Letters* **109**, 021108 (2016).
7. Ibraheem Al-Naib, Yuping Yang, Marc M. Dignam, **Weili Zhang**, and Ranjan Singh, "Ultra-high  $Q$  even eigenmode resonance in THz metamaterials," *Applied Physics Letters* **106**, 043502 (2015).

8. Ranjan Singh, Wei Cao, Ibraheem Al-Naib, Longqing Cong, Withawat Withayachumnankul, and **Weili Zhang**, "Ultrasensitive THz sensing with high-Q Fano resonances in metasurfaces," *Applied Physics Letters* **105**, 171101 (2014).
9. Ranjan Singh, Ibraheem Al-Naib, Wei Cao, Carsten Rockstuhl, Martin Koch, and **Weili Zhang**, "The Fano resonance in symmetry broken terahertz metamaterials," *IEEE Transactions on Terahertz Science and Technology* **3**, 820-826 (2013). (*Invited paper*)
10. Wei Cao, Ranjan Singh, Ibraheem A. I. Al-Naib, Mingxia He, Antoinette J. Taylor, and **Weili Zhang**, "Low-loss ultra-high-Q dark mode plasmonic Fano metamaterials," *Optics Letters* **37**, 16, 3366-3368 (2012).
11. Ranjan Singh, Ibraheem A. I. Al-Naib, Martin Koch, and **Weili Zhang**, "Sharp Fano resonances in THz metamaterials," *Optics Express* **19**, 6312-6319 (2011).
12. Xinchao Lu, Jiaguang Han, and **Weili Zhang**, "Transmission field enhancement of terahertz pulses in plasmonic, rectangular coaxial geometries," *Optics Letters* **35**, 904-906 (2010).
13. Shuang Zhang, Yong-Shik Park, Jensen Li, Xinchao Lu, **Weili Zhang**, and Xiang Zhang, "Negative refractive index in chiral metamaterials," *Physical Review Letters* **102**, 023901 (2009).
14. John F. O'Hara, Ranjan Singh, Igal Brener, Evgenya Smirnova, Jiaguang Han, Antoinette J. Taylor, and **Weili Zhang**, "Thin-film sensing with planar terahertz metamaterials: sensitivity and limitations," *Optics Express* **16**, 1786-1795 (2008).
15. **Weili Zhang**, Abul K. Azad, Jiaguang Han, Jingzhou Xu, Jian Chen, and X.-C. Zhang, "Direct observation of a transition of a surface plasmon resonance from a photonic crystal effect," *Physical Review Letters* **98**, 183901 (2007).
16. Abul K. Azad, J. Dai, and **Weili Zhang**, "Transmission properties of terahertz pulses through subwavelength double split-ring resonators," *Optics Letters* **31**, 634-636 (2006).
17. Abul K. Azad and **Weili Zhang**, "Resonant terahertz transmission in subwavelength metallic hole arrays of sub-skin-depth thickness," *Optics Letters* **30**, 2945-2947 (2005).
18. D. Qu, D. Grischkowsky, and **Weili Zhang**, "Terahertz transmission properties of thin, subwavelength metallic hole arrays," *Optics Letters* **29**, 896-898 (2004).
19. **Weili Zhang**, A. Azad, and D. Grischkowsky, "Terahertz studies of carrier dynamics and dielectric response of n-type, freestanding epitaxial GaN," *Applied Physics Letters* **82**, 2841-2843 (2003).
20. **Weili Zhang**, J. Zhang, and D. Grischkowsky, "Quasi-optic dielectric terahertz cavity - Coupled through optical tunneling," *Applied Physics Letters* **78**, 2425-2427 (2001).
21. **Weili Zhang**, K. S. Wong, H. Wang, Z. K. Tang, G. K. L. Wong, and R. K. Jain, "Magnitude and dynamics of third-order optical nonlinearity in ZnO microcrystallite thin films," *Applied Physics Letters* **75**, 3321-3323 (1999).
22. **Weili Zhang**, N. Cue, and K. M. Yoo, "Emission linewidth of laser action in random gain media," *Optics Letters* **20**, 961-963 (1995).