WEILI ZHANG, Ph.D., F.OSA

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PRESENT POSITION

Regents Professor
Edward Joullian Endowed Chair in Engineering
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

Regents Professor and Edward Joullian Endowed Chair in Engineering, School of Electrical and Computer Engineering, Oklahoma State University, 2026-present
Regents Professor, School of Electrical and Computer Engineering, Oklahoma State University, 2025-present
Professor, School of Electrical and Computer Engineering, Oklahoma State University, 2011-2025
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, *Photonics Insights*, 2021-present; *Research*, 2025-present
Section Editor-in-Chief, *Materials*, 2024-present
Primary Gest Editor, *IEEE Journal of Selected Topics in Quantum Electronics*, 2017
Member, International Organizing Committee, 6th *International Symposium on Microwave and Terahertz Science and Applications* (*MTSA* 2024), Copenhagen, Denmark, June 3-7, 2024
Journal Review (40+ Journals): *Nature*, *Nature Photonics*, *Nature Physics*, *Nature Communications*, *Nature Materials*, *Science Advances*, *Advanced Materials*, *Materials Today*, *Physical Review Letters*, *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
Award Selection Committee, Oklahoma State University, 2026
Award Selection Committee, College of Engineering, Architecture and Technology, 2026
Director of Graduate Program, School of Electrical and Computer Engineering, 2024-present

HONORS AND AWARDS

Edward Joullian Endowed Chair in Engineering, College of Engineering, Architecture and Technology, Oklahoma State University, 2026
Excellent Teacher - Senior Award, College of Engineering, Architecture and Technology, Oklahoma State University, 2026
Highly Cited Researcher, Clarivate (Web of Science), 2019-2023
Fellow, Optica (The Optical Society, OSA), 2015
Regents Distinguished Research Award, Oklahoma State University, 2015

PUBLICATIONS AND INVITED TALKS

441 invited or contributed publications in peer-reviewed journals. Citations: Web of Science Citations: **26,189**, h-index: **82**, ESI Highly Cited Papers: **16**; Scopus Citations: **28,410**, h-index: **86**; Google Scholar Citations: **33,923**, h-index: **93**

55 planary, keynote and invited talks and lectures at international conferences and institutions

Selected Recent Journal Publications

1. Ruxue Wei, Soren Petersen, William Poduska, and **Weili Zhang**, "Broadband Terahertz Conductivity and Polarization Dynamics of Single-Crystal Diamond," *Applied Physics Letters* **128**, 221108 (2026).
2. Ruxue Wei, Soren Petersen, and **Weili Zhang**, "Time-Domain Near-Field Scanning Microscopy of Terahertz Metasurfaces," *Advanced Photonics Research* **7**, e202500268 (2026). (*Invited Paper*)
3. Quan Xu, Yongchang Lu, Xi Feng, Qingwei Wang, Li Niu, Liyuan Liu, Xueqian Zhang, Jiaguang Han, and **Weili Zhang**, "Recent Advances on Terahertz Wave Generation and Synchronous Control," *Advanced Optical Materials* **14**, e01920 (2026). (*Invited Paper*)
4. Yuanhao Lang, Quan Xu, Fan Huang, Xinyao Yuan, Xiaohan Jiang, Xueqian Zhang, Jianqiang Gu, Luping Du, Xiaocong Yuan, Changxu Liu, Jiaguang Han, and **Weili Zhang**, "Experimental observation of topological transition in optical multimeron," *Advanced Materials* **38**, e07528 (2026).
5. Yongchang Lu, Xueqian Zhang, Haidi Qiu, Li Niu, Xieyu Chen, Quan Xu, **Weili Zhang**, and Jiaguang Han, "Electric-Magnetic-Switchable Free-Space Skyrmions in Toroidal Light Pulses via a Nonlinear Metasurface," *Optica* **13**, 203-210 (2026).
6. L. Niu, X. Feng, X. Zhang, Y. Lu, Q. Wang, Q. Xu, X. Chen, J. Ma, H. Qiu, W. E.I. Sha, S. Zhang, A. Alù, **W. Zhang**, and J. Han, "Nonlinear Metasurfaces for Completed Control of Amplitude, Phase, and Polarization in Broadband Terahertz Generation," *Nature Communications* **16**, 8159 (2025).
7. Q. Wang, X. Zhang, Q. Xu, X. Feng, L. Niu, X. Chen, Y. Lu, J. Feng, M. Fang, X. Zhang, **W. Zhang**, and J. Han, "Nonlinear Metasurfaces for Completed Control of Amplitude, Phase, and Polarization in Broadband Terahertz Generation," *Advanced Materials* **2025**, 2500392 (2025).
8. J. Liang, J. Zhang, Z. Wang, R. Wang, Z. Yao, R. Singh, Z. Tian, and **W. Zhang**, "Photoactive Polymer-Silicon Heterostructures for Terahertz Spatial Light Modulation and Video-Rate Single-Pixel Compressive Imaging," *Advanced Functional Materials* **2025**, 2422478 (2025).
9. J. Li, Y. Yao, J. Liang, C. Li, L. Jiang, Z. Tian, and **W. Zhang**, "Non-invasive, real-time monitoring of blood Na^+ in vivo using terahertz optoacoustics", *Optica* **12**, 914-923 (2025).
10. W. Liu, X. Jiang, K. Ding, J. You, J. Gu, Q. Xu, L. Wang, L. Wang, Ch. Bi, Y. Gu, J. Zhang, S. Gong, J. Han, Y. Zhang, and **W. Zhang**, "Vector Mode Division Multiplexing in Terahertz Wireless Link Enabled by Multifunction Metasurfaces," *Optica* **12**, 140-147 (2025).