

Assistant Professor Lifei Zhang

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Lifei Zhang is an Assistant Professor in the Department of Mechanical Engineering at Tsinghua University, China, and a Visiting Research Scientist at Fraunhofer-Institute Electronic Nano System ENAS, Germany. She earned her Ph.D. in Mechanical Engineering from Tsinghua University, China, and served as a Visiting Scholar at Northeastern University, USA, in 2020. She has served as a Program Committee Member of ICPT since 2024. Her research focuses on integrated circuit manufacturing at advanced technology nodes, and atomic-scale precision surface fabrication. She concentrates on the mechanisms, key materials, and processes of chemical mechanical polishing.

Lifei Zhang has published more than 30 papers in prestigious journals, including *Advanced Functional Materials* (IF 19.9), *Materials Futures* (IF 12.3) and *Friction* (IF 8). Her research has also gained broad industry recognition. She was awarded the Best Young Engineer Prize by CSTIC twice, in 2023 and 2026. Her work provides material and process support for 12-inch CMP equipment, and also offers the theoretical and technical foundation for the IC industry to achieve leapfrog progress in manufacturing and overcome bottlenecks at advanced technology nodes.