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Professor at Beihang University and Adjunct Professor at the Sustainable Photonics Research Center (SPRC), Hangzhou International Innovation Institute. He received his Ph.D. from Harbin Institute of Technology and was jointly trained at the École Polytechnique Fédérale de Lausanne (EPFL), Switzerland. He previously served as a Senior Research Fellow at the Singapore University of Technology and Design (SUTD).

His research focuses on nanophotonics, particularly light-field manipulation and imaging technologies enabled by micro/nano-fabrication. His work covers two-photon 3D printing, intelligent nanostructure design (metasurfaces and metalenses), structural color devices, and diffractive optical components. He has published more than 60 SCI-indexed papers in leading journals including *Nature Nanotechnology*, *Nature Electronics*, *Nature Communications*, and *Science Advances*. He serves as a Young Editorial Board Member for journals such as *PhotoniX*, *Nano-Micro Letters*, *Materials Futures*, and *Photonics*. He has received honors including the PIERS Young Scientist Award and the IEEE OGC Global Young Scientist Award, also serves at the organi zation committee of IEEE Photonics Conference, PIERS, and Sustainable Photo nics Conference (SPC). He has participated in multiple research projects funded by the National Research Foundation of Singapore, the National Natural Science Foundation of China, the Singapore–Israel Joint Research Program, as well as industrial R&D projects with THALES (France) and Lite-On.