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Prof. Zhitang Song

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Prof. Zhitang Song, a supervisor for Ph.D candidates, researcher at the Shanghai Institute of Microsystem and Information Technology of the Chinese Academy of Sciences, academic leader in the field of phase change memory, national leader in innovation and entrepreneurship, national candidate for cross-century talents, a leading talent in Shanghai, and director of key laboratories in Shanghai. He pioneered and led China's research in the field of phase change memory, established octahedral unit cell and three-dimensional confined phase change theory. He has worked closely with foundries and terminals users to form an industry-university-research team to promote the engineering and industrialization of China's phase change memory chip research. The company he founded has achieved results transformation and batch sales of PCM chips, electronic-grade SiO₂ abrasives and IC polishing slurry. As chief scientist, he undertook 4 national 973 projects and 3 special projects under the 02 program. He has published more than 700 SCI papers in journals such as Science and IEDM, published two books on phase change memory, authorized more than 500 invention patents. He won the Outstanding Scientific Achievement Award from CAS (ranked first) in 2022, Top Ten Scientific Progresses in China in 2022, First Prize for Natural Science in Shanghai (ranked first) in 2020, First Prize for Technical Invention (ranked first) in Shanghai in 2016, First Prize for Science & Technology Award from Chinese Materials Research Society in 2019 and CAS President Special Award Tutor.