Jinhui Wang, PhD.

Professor of Electrical and Computer Engineering

| 170+ Research Articles | $13 Million Grant Funding | 31 Patents |

Research Interests

Emerging Memory Design
Neuromorphic Computing Hardware

AIoT Systems Design and Adaptation
Very Large-Scale Integration (VLSI)
Circuits and Systems

3-D Integrated Circuit Design
Cooling Techniques for
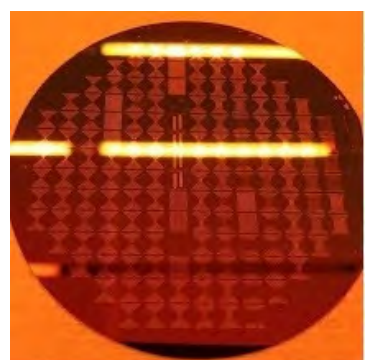Electronic Devices

Experimental Capabilities

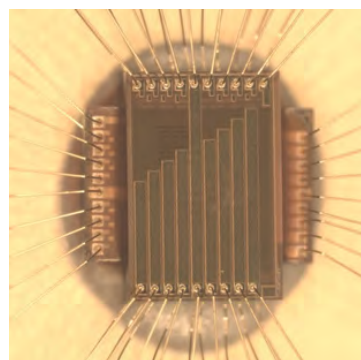Microchip Design and Testing

AIOT System Design and Adaptation

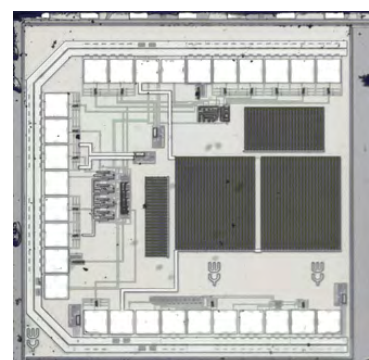Neuromorphic System
Design and Manufacture

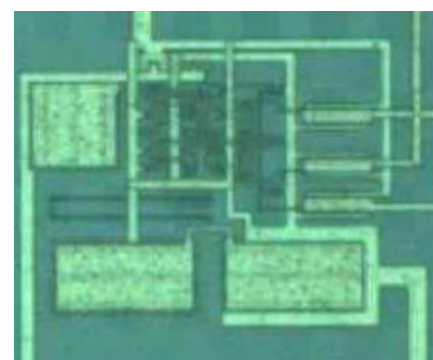Computer Chips Developed by Dr. Wang and His Team

ReRAM Wafer

2.5D IC

NV Memory

3-Stage Amplifier

2021
IEEE Internet of Things Journal
"Memristor Based Variation Enabled Differentially Private Learning Systems for Edge Computing in IoT"

2022
IEEE Transactions on Electron Devices
"Level Scaling and Pulse Regulating to Mitigate the Impact of the Cycle-to-Cycle Variation in Memristor-Based Edge AI System"

2016
IEEE Transactions on Computers
"cNV SRAM: CMOS Technology Compatible Non-volatile SRAM Based Ultra-Low Leakage Energy Hybrid Memory System"

2023
IEEE Journal on Emerging and Selected Topics in Circuits and Systems
"PAWN: Programmed Analog Weights for Non-Linearity Optimization in Memristor-Based Neuromorphic Computing System"