

Microwave Prize

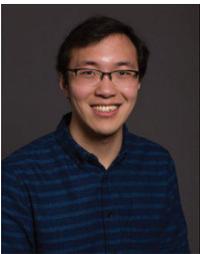
Recognizes, on an annual basis, the most significant contribution by a published paper to the field of interest of the MTT-S. The Microwave Prize is the Society's oldest Award.

S. Zhang, R. Lu, H. Zhou, S. Link, Y. Yang, Z Li, K. Huang, X. Ou, and S. Gong, for their paper "Surface Acoustic Wave Devices using Lithium Niobate on Silicon Carbide", IEEE Transactions on Microwave Theory and Techniques, vol. 68, no. 9, pp. 3653-3666, September 2020.



Shibin Zhang

Shibin Zhang received the Ph.D. degree in Microelectronics and Solid State Electronics from the University of Chinese Academy of Sciences, Beijing, China, in 2020. He is currently an assistant professor with Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences. He has authored or co-authored more than 20 SCI/EI papers and has been authorized 15 patents. His current research interests include the design, modeling, characterization, and integration of piezoelectric micro-devices on heterogeneous substrates.



Ruochen Lu

Ruochen Lu is an Assistant Professor in the Department of Electrical and Computer Engineering at The University of Texas at Austin. His research primarily focuses on developing chip-scale acoustic and electromagnetic components and microsystems for RF applications. His works aim to demonstrate reconfigurable and tunable RF functions using novel MEMS platforms, toward higher operating frequencies and more efficient transduction between the EM and acoustic domains. In addition, he works on ultrasonic transducers and multi-physics hybrid microsystems for signal processing, sensing, and computing applications. He received the B.E. degree with honors in microelectronics from Tsinghua University, Beijing, China, in 2014, and the M.S. and Ph.D. degree in electrical engineering from the University of Illinois at Urbana-Champaign, Urbana, IL, USA, in 2017 and 2019, respectively. He received the Best Student Paper Awards at the 2017 IEEE International Frequency Control Symposium, and 2018 IEEE International Ultrasonics Symposium.

Microwave Prize

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Hongyan Zhou

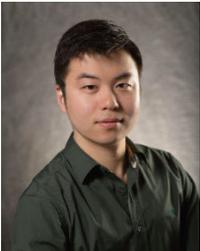
Hongyan Zhou received the B.E. degree in Inorganic Non-metallic Materials Engineering from Changchun University of Science and Technology, Changchun, China, in 2017. Afterwards, she joined the State Key Laboratory of Functional Materials for Informatics, Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences, Shanghai, where she is currently pursuing the Ph.D. degree in Microelectronics and Solid State Electronics. Her research interests include the design and microfabrication techniques of MEMS resonators, filters.

S. Link

No photo or bio available at time of publication.

Microwave Prize

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Yansong Yang

Yansong Yang is currently an Assistant Professor in the Department of Electrical and Computer Engineering at The Hong Kong University of Science and Technology. He received the B.S. degree in electrical and electronic engineering in 2014 from the Huazhong University of Science and Technology, Wuhan, China, and the M.S. and Ph.D. in electrical engineering in 2017 and 2019 from the University of Illinois at Urbana–Champaign, IL, USA. He has won the 2nd Place in Best Paper Competition at the 2018 IEEE International Microwave Symposium, and the best paper award at 2019 IEEE International Ultrasonics Symposium. He was also a finalist for the Best Paper Award at 2018 IEEE International Frequency Control Symposium and the Advanced Practices Paper Competition Award at 2020 IEEE International Microwave

Symposium. He is also a recipient of the 2019 P. D. Coleman Graduate Research Award from the Department of Electrical and Computer Engineering at UIUC. His research interests focus on developing multi-physics (including electrical, mechanical, and optical domains) hybrid microsystems for signal processing, sensing, and computing on a single chip.



Zhongxu Li

Zhongxu Li (S'17) received the B.S. degree in materials science and engineering from the Nanchang University, Nanchang, China, in 2017, and now pursuing the M.S. degree and Ph.D. degree in Microelectronics and Solid State Electronics from the University of Chinese Academy of Sciences, Shanghai Institute of microsystems and information technology, Shanghai, China.

His current research interests include the heterogeneous of wafer scale piezoelectric thin films mainly about lithium niobate and lithium tantalate; meanwhile the design and microfabrication about acoustic wave device.

Microwave Prize

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Kai Huang

Kai Huang received the B.E. degree in microelectronics from Jilin University, Changchun, China, in 2013, and the Ph.D. degree in microelectronics and solid state electronics from the University of Chinese Academy of Sciences (CAS), Beijing, China, in 2018.

He is currently an Assistant Researcher with the Shanghai Institute of Microsystem and Information Technology, CAS. His current research interests include the research and development and mass production of piezo thin films on heterogeneous substrates.

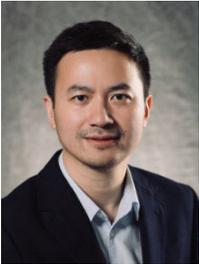


Xin Ou

He is currently a Professor with Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences. He has authored more than 130 SCI/EI papers and been authorized 70 patents. His current research interests include the heterointegration of functional materials for 5G RF-filter application. Dr. Ou was a recipient of the "IBMM Prize" of 20th International Conference on Ion Beam Modification of Materials, the "Research Prize" of Helmholtz Zentrum Dresden Rossendorf Germany, the Beijing "Science and Technology Progress Award" (first grade), the "2019 Ten Achievements of Optics" in China, the "Excellent Doctor Degree Dissertation Award" of the Chinese Academy of Sciences.

Microwave Prize

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Songbin Gong

Songbin Gong received a Ph.D. degree in electrical engineering from the University of Virginia, Charlottesville, VA, USA, in 2010. He is currently an Associate Professor and the Intel Alumni Fellow with the Department of Electrical and Computer Engineering and the Holonyak Micro and Nanotechnology Laboratory, University of Illinois at Urbana–Champaign, Urbana, IL, USA. His research primarily focuses on designing and implementing radio frequency microsystems, components, and subsystems for reconfigurable RF front ends. In addition, his research explores hybrid microsystems based on the integration of MEMS devices with photonics or circuits for signal processing and sensing. He is a recipient of the 2014 Defense Advanced Research Projects Agency Young Faculty Award, the 2017 NASA Early Career Faculty Award, the 2019 UIUC College of Engineer Dean’s Award for Excellence in Research, the 2019 Ultrasonics Early Career Investigator Award and the 2022 IEEE MTT society Microwave Prize.

Along with his students and postdocs, he received the Best Paper Awards from the 2017 and 2019 IEEE International Frequency Control Symposium, 2018, 2019, and 2020 International Ultrasonics Symposium, and won 2nd and 3rd places in Best Paper Competitions at the 2018 and 2020 IEEE International Microwave Symposium. He is a Technical Committee Member of the IEEE International Microwave Symposium and International Ultrasonic Symposium. He currently serves as an associate editor for T-UFFC, JMEMS, and JMW.