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Research Interests: Analog and RF circuits and systems for wireless and multidisciplinary applications

Research Contributions and Books

104 Journal Papers

7 Books/Book Chapters

133 Conference Papers

23 US Patents (**20** granted)

47 International/Local Seminars

9 International Keynote/Tutorials

26 Research Grants

44 PhD/Master Students

- **[Book'18]** *Handheld Total Chemical and Biological Analysis Systems: Bridging NMR, Digital Microfluidics and Semiconductors*
- **[Book'16]** *Ultra-Low-Power and Ultra-Low-Cost Short-Range Wireless Receivers in Nanoscale CMOS*
- **[Book'12]** *High-/Mixed-Voltage Analog and RF Circuit Techniques for Nanoscale CMOS*
- **[Book'07]** *Analog-Baseband Architectures and Circuits for Multistandard & Low-Voltage Wireless Transceivers*

Contributions and Recognitions with the IEEE

IEEE Circuits and Systems Society (CASS)

- 31 CASS Journal Papers (TCAS-I/II, TBCAS, TVLSI, CASM)
- CASS Board-of-Governor
- CASS Chair of Distinguisher Lecturer Program
- CASS Distinguisher Lecturer
- CASS Chapter-of-the-Year Award
- CASS Outstanding Young Author Award
- TCAS-II Best Associate Editor Award
- IEEE MWSCAS, APCCAS and ASICON Paper Awards
- Outstanding ISCAS Tutorial Certificate
- Senior Editor, IEEE JETCAS
- Guest Editor, IEEE JETCAS
- Guest Editor, IEEE RFIC Virtual Journal (CASS, SSCS, MTTS)
- Associate Editor, IEEE TCAS-I (2 terms)
- Associate Editor, IEEE TCAS-II (2 terms)
- Associate Editor, IEEE CASS Newsletter
- CASS Publication Activities Committee
- Member of CASCOM and CASEO Technical Committees
- Organizing Committee of ISCAS and APCCAS
- TPC Vice Co-Chair, ASP-DAC
- Keynote Speaker, PRIME/SMACD and RFID-TA
- Tutorial Speaker, ISCAS, APCCAS, VLSI-DAT and RFID-TA

IEEE Solid-State Circuits Society (SSCS)

- 16 SSCS Journal Papers (JSSC)
- **17 ISSCC Papers [No. 1 Team in China in 2011-2018]**
- 8 ISSCC Student Research Previews
- 6 ISSCC Technical Highlight Papers
- 2 ISSCC Live Demos
- 4 SSCS Pre-Doctoral Achievement Awards [as advisor]
- 6 ISSCC Student Travel Grant Awards [as advisor]
- SSCS Distinguisher Lecturer
- Associate Editor, IEEE SSCL
- Guest Editor, IEEE JSSC
- TPC Member of ISSCC, ESSCIRC and A-SSCC
- ISSCC/DAC Design Contest Award
- ISSCC Silkroad Award
- A-SSCC Distinguished Design Award

IEEE Microwave Theory and Techniques Society (MTTS)

- 12 MTTS Journal Papers (TMTT, MWCL, MWMag)

IEEE and Other IEEE Entities

- Editorial Board Member, IEEE Press
- Guest Editor, IEEE Sensors Journal
- Associate Editor, IEEE Potentials
- GOLD Achievement Award, IEEE MGA
- Outstanding Service Award, IEEE CEDA (co-recipient)

International and National Awards and Recognitions

- Distinguished Seminars/Lectures – Qualcomm-USA (2017), imec-Belgium (2017)
- 3 x Macau Science and Technology Invention Awards, Macau Government (2012, 2014, 2016)
- **National Scientific and Technological Progress Award, China Government (2011) [1st time in Macau]**
- University of Macau - Research Excellence Award (2010, 2017), Academic Staff Award (2011) and Long Service Award (2017)
- Visiting Fellowship, University of Cambridge, UK (2009)
- Decoration of Honorable Title of Value, Macau Government (2005)