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Alshareef is an associate professor of materials science and engineering at King Abdullah University of Science and Technology. He holds a PhD degree in materials science and engineering from North Carolina State University (NCSU). Following his graduation from NCSU in 1996, Alshareef worked as a postdoctoral fellow at Sandia National Laboratory. He then

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Quevedo-Lopez is an associate professor in the Department of Materials Science and Engineering at the University of Texas at Dallas. He received his PhD degree in materials science and engineering from the University of North Texas in 2002. Afterward, he joined Texas Instruments (TI) Silicon Technology Development Group as a Member of Technical

Staff. While at Texas Instruments, Quevedo-Lopez was assigned to SEMATECH from 2004 to 2006. At TI and SEMATECH, he worked extensively in advanced gate stack materials for Si-based technology. In April 2007, he joined the University of Texas at Dallas as a research professor, and in September 2010, he was appointed as an associate professor of materials science and engineering. His research interests include dielectrics and contact materials for flexible electronics, large area sensors, and energy applications. Quevedo-Lopez has authored or co-authored more than 110 publications in peer-reviewed journals and proceedings and holds 10 U.S. patents. In addition, he is a member of the Materials Research Society and IEEE.



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Majhi is currently at SEMATECH (Intel Assignee) as the chief technologist managing the groups primarily researching scaled MOSFETs with high mobility channels in planar and non-planar forms and ultralow power technologies. He received his B.Tech degree from the Indian Institute of Technology, Madras (1996), and his PhD degree in science and engineering of materials from Arizona State University, Tempe,

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the reactions at the interfaces between these materials, interfacial engineering to control these reactions, and device characterization to understand the effect of material properties on electrical properties. He has published more than 40 journal publications and proceedings, has been issued more than 40 U.S. patents, and has more than 40 conference presentations.

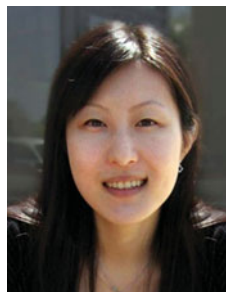


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Coss is a PhD degree candidate in materials science and engineering at the University of Texas at Dallas. He has interned at SEMATECH from 2008 to 2010, while pursuing his PhD degree research on Schottky barrier height modulation using interface dipoles. His work has been presented at the Very Large Scale Integration (VLSI) Conference in 2009 and the 2010 International Electron Devices Meeting. His research focuses

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Hu is working toward her PhD degree in electrical engineering at Stanford University. She received her BS degree in electrical engineering from the University of California, San Diego, in La Jolla, CA, in 2005, and her MS degree in electrical engineering from Stanford in 2007. Her research interests include the design and fabrication of III-V semiconductor CMOS devices for digital logic applications. She was a recipient of the Stanford Graduate Fellowship and National

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Hussain is an assistant professor of electrical engineering at King Abdullah University of Science and Technology (KAUST). He received his PhD degree in electrical engineering (solid state electronics) from the University of Texas at Austin in 2005, with a PhD degree portfolio in nanotechnology. Recently, he has become the senior member grade of IEEE. Prior to joining KAUST, Hussain worked as a process integra-

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Loh is a project engineer at SEMATECH in Austin, TX. He received his BEng (Hons) and PhD degrees in electrical engineering from the National University of Singapore in 1997 and 2004, respectively. From 1997 to 2000, he was a senior engineer in the Yield Department with Chartered Semiconductor Mfg. Ltd., focusing on defect characterization and yield improvement activities. In 2000, Loh joined the Silicon Nano Device Lab in the Electrical and Computer Engineering

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Saraswat is the Rickey/Nielsen Chair Professor of Electrical Engineering at Stanford University. He received his PhD degree from Stanford in 1974. His research is on novel materials, structures, and process technology of silicon, germanium, and III-V devices and interconnects for nanoelectronics. He has graduated more than 70 doctoral students and has published more than 600 technical papers. Saraswat is a fellow of the IEEE. His honors include the Thomas Callinan Award from

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Song is a postdoctoral researcher in Professor Z.L. Wang's group in the School of Materials Science and Engineering at the Georgia Institute of Technology (Georgia Tech). He received his PhD degree (2008) from the School of Materials Science and Engineering from Georgia Tech. Song and his PhD degree advisor co-invented the nanogenerator, which received worldwide news

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Wen has been working in the Analog Technology Development group at Texas Instruments since May 2007. She received her BS degree from the Electrical Engineering Department at the National Chiao Tung University (NCTU), Taiwan, in 2000. Wen earned her MS degree in electrical engineering from NCTU in 2002 and received her PhD degree from the Electrical and Computer Engineering Department at the University of Texas at Austin in 2006. In 2004, she

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Wong has been a professor of electrical engineering at Stanford University since September 2004. He received his BSc (Hons.), MS, and PhD degrees from the University of Hong Kong, Stony Brook University, and Lehigh University, respectively. From 1988 to 2004, Wong was with the IBM T.J. Watson Research Center. His present research covers a broad range of topics, including carbon nanotubes, semiconductor nanowires, self-assembly,

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