

Refereed Journal Articles

- [1] F.C. Jain, **S.K. Islam** and M. Gokhale, "Self-Aligned Metal-SiO₂-InP Based MISFETs Having Modulation-Doped Channel", *International Journal of Infrared and Millimeter Waves of Infrared and Millimeter Waves*, Vol. 13, No. 10, pp. 1459-1469, 1992.
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- [2] "Biosensors Using Genetically Engineered Whole-Cell Bioreporters on Integrated Circuits"- **S.K. Islam**, Guest Editorial- *Osmani Medical Teachers Association Journal*, Volume 2, Number 2, July 2003.

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 - [28] M. A. Huque, **S. K. Islam**, B. J. Blalock, and L. M. Tolbert, “Diode Leakage Current Based Low Power, On-chip High Temperature Sensor Circuit”, *2009 Connecticut Symposium on Microelectronics and Optoelectronics (CMOC)*, Yale University, New haven , CT, March 11, 2009.
 - [29] M. A. Huque, and **S. K. Islam**, “Choice of Material for Power Semiconductor Devices in High Switching Frequency Applications: From Power Loss Perspective”, *2009 Connecticut Symposium on Microelectronics and Optoelectronics (CMOC)*, Yale University, New haven , CT, March 11, 2009.
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- [2] “Modeling and Simulation of InGaN-GaN Modulation-Doped Field-Effect Transistors (MODFETs) for 15 GHz+ Operation”, Department of Electrical and Systems Engineering Colloquium, University of Connecticut, Storrs, CT, March 14, 1997.
- [3] “Enhanced Performance Quantum Wire MODFET Employing Coupled Well Channels”- Invited paper presented at SPIE’s International Symposium on Aerospace/Defense Sensing, Simulation, and Controls, April 14, 1998 (Orlando, FL)
- [4] “Transport in One-Dimensional Quantum Interference Transistors (1-D QUIT) Devices”, Department of Electrical and Systems Engineering Colloquium, University of Connecticut, Storrs, CT, November 20, 1998
- [5] “Design of LC VCO Using On-Chip Inductors”, Department of Electrical and Computer Engineering Colloquium, University of Connecticut, Storrs, CT, March 14, 2002
- [6] “ Analog/Mixed-Signal research Program at the University of Tennessee”, ADTRAN, Huntsville, AL, December 7, 2001
- [7] “Analog and Mixed-Signal VLSI Research at The University of Tennessee ”, Department of Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh, June 22. 2002.
- [8] “Wide Bandgap Semiconductor Devices”- Graduate Seminar, Department of Materials Science and Engineering, University of Tennessee, November 4, 2003.
- [9] “Biophotonic Biosensors using Genetically Engineered Whole-Cell Bioreporters on Integrated Circuits”- Department of Electrical and Computer Engineering Colloquium, University of Connecticut, Storrs, CT, March 18, 2005
- [10] “Recent Developments in Wide Bandgap Semiconductor Devices”- Department of Electrical and Computer Engineering and Computer Science, University of Cincinnati, Cincinnati, OH, February 3, 2006.
- [11] “Wide Bandgap Semiconductor Devices for Vehicular Applications”, IEEE Electron Device Society – Bangladesh Chapter, Dhaka, Bangladesh, June 25, 2007.
- [12] “Challenges in RF Circuit Design”, Department of Electrical and Electronic Engineering, East West

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- [13] “Analog, Mixed-Signal and RF Microelectronic Research at The University of Tennessee”, Department of Electrical and Electronic Engineering, Bangladesh University of Engineering and Technology, Dhaka, Bangladesh, July 9, 2007.