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RESEARCH INTEREST

VLSI, RF Communication, RFID, Thin film, Solar Cell

EDUCATIONAL BACKGROUND

- Bachelor Degree, Applied Physics, Electronics and Communication Engineering, University of Chittagong, Bangladesh (2006)
- Master Degree, Applied Physics, Electronics and Communication Engineering, University of Chittagong, Bangladesh (2007)
- Ph. D Degree, Electrical, Electronic and Systems Engineering, Universiti Kebangsaan Malaysia, Malaysia (2017)

WORKING EXPERIENCE

- Assistant Professor, Electrical and Electronics Engineering, Xiamen University Malaysia, Malaysia (2018 onwards).
- Assistant Professor, Electronic and Communication Engineering, Southern University Bangladesh, Bangladesh (2017-18).
- Lecturer, Electronic and Communication Engineering, Southern University Bangladesh, Bangladesh (2009-17).

HONORS and AWARDS

- Awarded university scholarship (from Universiti Kebangsaan Malaysia) “**Skim Zamalah Universiti Penyelidikan**” from April, 2012 to August, 2015.
- Gold Medal Award, ***A novel parallel resonance based Transmit/Receive switch for cost-efficient portable RF devices***, International Invention, Innovation and Design Competition and Conference (ICON) 2014, UiTM Terengganu, Malaysia. (Group Members: Mamun Bin Ibne Reaz, **Mohammad Arif Sobhan Bhuiyan** and Noorfazila Kamal)
- Gold Medal Award, ***Active Inductor Based T/R Switch with High Isolation and Low Insertion Loss for Low Cost Portable RF Devices***, International Innovation, Design and Articulation (i-IDEA) 2014, UiTM Perlis, Malaysia. (Group Members: Mamun Bin Ibne Reaz **and Mohammad Arif Sobhan Bhuiyan**)
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HONORS/AWARDS/GRANTS

- **Project Leader**, Low-power Compact Active Inductor Based CMOS Low Noise Amplifier for RF Receivers, XMUMRF/2018-C2/IECE/0002 (Xiamen University Malaysia), 1 July 2018 - 30 June 2020, RM 60,000.

REPRESENTATIVE PUBLICATION

International Journal

Total: 30

Sl.	Details	Year	Remarks
1.	MTI Badal, MBI Reaz, MAS Bhuiyan , N Kamal, Design Architectures of the 2.4 GHz CMOS Transmitter for RF Devices, IEEE Microwave Magazine.	2018 (Accepted) USA	ISI (Q1 Impact Factor 3.02)
2.	MAS Bhuiyan , MBI Reaz, MB Omar, MTI Badal, NA Jahan, Advances in Active Inductor Based CMOS Band-pass Filter, Micro and Nano Systems, 10(1), 2018	2018 UAE	Scopus indexed
3.	P Schmiedeke, MAS Bhuiyan , MBI Reaz, TG Chang, ML Crespo, A Cicuttin, A Fully Integrated High IP1dB CMOS SPDT Switch Using Stacked Transistors for 2.4GHz TDD Transceiver Applications, Sadhana, 43(94), 2018	2018 India	ISI (Q3 Impact Factor 0.465)
4.	MAS Bhuiyan , MTBM Taib, MBI Reaz, FH Hashim, SHM Ali, Design Of A Band-Pass Filter In 0,18 μm CMOS for 2,4 GHz Reader-Less RFID Transponder, Tehnički vjesnik 24 (1), 31-34, 2017.	2017 Croatia	ISI (Q4 Impact Factor 0.46)
5.	MTI Badal, MBI Reaz, Z Jalil, MAS Bhuiyan , Low Power High-Efficiency Shift Register Using Implicit Pulse-Triggered Flip-Flop in 130 nm CMOS Process for a Cryptographic RFID Tag, Electronics 5, 1-13, 2016.	2016 Switzerland	ISI (Q1 impact factor 2.11)
6.	MAS Bhuiyan , MB Omar, MBI Reaz, N Kamal, SHM Ali, A complementary metal oxide semiconductor (CMOS) bandpass filter for cost-efficient radio frequency (RF) appliances, Journal of Engineering Research 4 (3), 114-127, 2016.	2016 Kuwait	ISI (Q4 Impact Factor 0.17)
7.	MAS Bhuiyan , MBI Reaz, MTI Badal, MA Mukit, N Kamal, Design of an Active Inductor-based T/R Switch in 0.13μm CMOS Technology for 2.4 GHz RF Transceivers, Transactions on Electrical and Electronic Materials 17(5):261-269, 2016	2016 South Korea	Scopus indexed
8.	MS Amin, MBI Reaz, SS Nasir, MAS Bhuiyan , Low cost GPS/IMU integrated accident detection and location system, Indian Journal of Science and Technology 9 (10), 1-8, 2016	2016 India	Scopus indexed
9.	MAS Bhuiyan , Y Zijie, JS Yu, MBI Reaz, N Kamal, TG Chang, Active inductor based fully integrated CMOS transmit/receive switch for 2.4 GHz RF transceiver,	2016 Brazil	ISI (Q3 Impact Factor 0.78)

Anais da Academia Brasileira de Ciências 88 (2), 1089-1098, 2016.

10. **MAS Bhuiyan**, JX Chew, MBI Reaz, N Kamal, Design of an active inductor based LNA in Silterra 130 nm CMOS process technology, Journal of Microelectronics, Electronic Components and Materials 45 (3), 188-194, 2015. 2015 Slovenia ISI Impact Factor (Q4 0.393)
11. **MAS Bhuiyan**, MBI Reaz, J Jalil, LF Rahman, TG Chang, A compact transmit/receive switch for 2.4 GHz readerless active RFID tag transceiver, Journal of Central South University 22 (2), 546-551, 2015. 2015 China ISI Impact Factor (Q3 0.464)
12. MS Amin, MBI Reaz, SS Nasir, **MAS Bhuiyan**, MAM Ali, A novel vehicle stationary detection utilizing map matching and IMU sensors, The Scientific World Journal 2014, 1-8, 2014. 2014 USA ISI Impact Factor (Q1 1.7)
13. **MAS Bhuiyan**, MBI Reaz, J Jalil, LF Rahman, TG Chang, Design trends in fully integrated 2.4 GHz CMOS SPDT switches, Current Nanoscience 10 (3), 334-343, 2014. 2014 UAE ISI Impact Factor (Q2 1.4)
14. **MAS Bhuiyan**, MB Omar, MBI Reaz, FH Hashim, A review on CMOS gm-c band pass filters in RF application, Journal of Theoretical and Applied Information Technology 61 (1), 17-23, 2014. 2014 Pakistan Scopus indexed
15. MS Amin, MBI Reaz, **MAS Bhuiyan**, SS Nasir, Kalman filtered GPS accelerometer-based accident detection and location system: A low-cost approach, Current Science 106, 1548-1554, 2014. 2014 India ISI Impact Factor (Q2 0.91)
16. J Jalil, MBI Reaz, **MAS Bhuiyan**, LF Rahman, TG Chang, Designing A Ring-VCO for RFID Transponders in 0.18- μ m CMOS Process, The Scientific World Journal 2014, 1-6, 2014. 2014 USA ISI Impact Factor (Q1 1.7)
17. **MAS Bhuiyan**, HNB Rosly, M bin Ibne Reaz, KN Minhad, H Husain, Advances on CMOS Shift Registers for Digital Data Storage, TELKOMNIKA Indonesian Journal of Electrical Engineering, 12 (5), 3849-3862, 2014. 2014 Indonesia Scopus indexed
18. **MAS Bhuiyan**, KA Tarumaraja, MBI Reaz, FH Hashim, Low noise low power transimpedance amplifier in 0.18 μ m CMOS technology, Journal of Theoretical and Applied Information Technology 62 (1), 16-20, 2014. 2014 Pakistan Scopus indexed
19. **MAS Bhuiyan**, MBI Reaz, J Jalil, LF Rahman, Design of a nanoswitch in 130 nm CMOS technology for 2.4 GHz wireless terminals, Bulletin of the Polish Academy of Sciences Technical Sciences 62 (2), 399-406, 2014. 2014 Poland ISI Impact Factor (Q2 0.98)
20. **MAS Bhuiyan**, MIB Idris, MBI Reaz, KN Minhad, H Husain, Low Voltage and Wide Bandwidth Class AB Variable Gain Amplifier in 0.18- μ m CMOS Technology, Przegląd Elektrotechniczny 2014 (06), 184-187, 2014. 2014 Poland Scopus indexed
21. KA Rosli, RMNHR Daud, M Mamun, **MAS Bhuiyan**, A Comparative Study On SOI Mosfets For Low Power Applications, Research Journal of Applied Sciences, Engineering and Technology 5 (8), 2586-2591, 2013. 2013 Pakistan Scopus indexed

22.	MJ Uddin, AN Nordin, MBI Reaz, MAS Bhuiyan , A CMOS power splitter for 2, 45 GHz ISM band RFID reader in 0, 18 μm CMOS technology, Tehnički vjesnik 20 (1), 125-129, 2013.	2013 Croatia	ISI (Q3 Impact Factor 0.6)
23.	FIBA Aziz, M Mamun, MAS Bhuiyan , AAA Bakar, A low drop-out voltage regulator in 0.18 μm CMOS technology, Modern Applied Science 7 (4), 70-76, 2013.	2013 Canada	Scopus indexed
24.	FB Arith, M Mamun, MAS Bhuiyan , AAA Bakar, Low Voltage Schmitt Trigger In 0.18 μm CMOS Technology, Advances in Natural and Applied Sciences 7 (1), 33-38, 2013.	2013 Jordan	Scopus indexed
25.	M Mamun, MAS Bhuiyan , AAA Bakar, H Husain, Hardware Approach of Lempel-Ziv-Welch Algorithm for Binary Data Compression, World Applied Sciences Journal 22 (1), 133-139	2013 Pakistan	Scopus indexed
26.	MAS Bhuiyan , AS Bhuiyan, A Hossain, ZH Mahmood, Studies on optical characteristics of CuInSe ₂ thin films, Central European Journal of Engineering 3 (2), 170-173, 2013.	2013 Germany	Scopus indexed
27.	WM Kader, H Rashid, M Mamun, MAS Bhuiyan , Advancement of CMOS Schmitt trigger circuits, Modern Applied Science 6 (12), 51-58, 2012.	2012 Canada	Scopus indexed
28.	M Arifin, M Mamun, MAS Bhuiyan , H Husain, A Design of a low power and wide band true single-phase clock frequency divider, Australian Journal of Basic and Applied Sciences 6 (7), 73-79, 2012.	2012 Pakistan	Scopus indexed
29.	KA Rosli, M Mamun, MAS Bhuiyan , H Husain, A Low Loss Wide Swing Cascode Current Mirror in 0.18- μm CMOS Technology, Journal of Applied Sciences Research 8 (8), 4096-4102, 2012.	2012 Jordan	Scopus indexed
30.	NB Romli, M Mamun, MAS Bhuiyan , H Husain, Design of a low power dissipation and low input voltage range level shifter in CEDEC 0.18- μm CMOS process, World Applied Sciences Journal 19 (8), 1140-1148, 2012.	2012 Pakistan	Scopus indexed

International and Regional Conferences and Proceedings

Total: 13

Sl.	Details	Year	Venue
1.	A Jecko, R Das, MAS Bhuiyan , S Khan, KN Tahsin, Adaptation of an Industrial Gas Burner Controller for a Household Stove, International Conference on Inventive Computing Systems and Applications (ICICSA 2018) 398-405, 2018.	2018	Pattaya, Thailand
2.	MAS Bhuiyan , S Mahmud, R Rahaman, RK Das, H Ullah, A study on the optical properties of co-evaporated	2017	Chittagong, Bangladesh

- CuInSe₂ thin films for high efficiency inorganic solar cell, 2nd International Conference on Physics for Sustainable Development & Technology (ICPSDT-2017), 1-8, 2017.
3. **MAS Bhuiyan**, A Mahmoudbeik, MTI Badal, MBI Reaz, LF Rahman, Low power D flip-flop serial in/parallel out based shift register, Advances in Electrical, Electronic and Systems Engineering (ICAEESE 2016), 180-184, 2016.
 4. LF Rahman, MBI Reaz, **MAS Bhuiyan**, MTI Badal, Design of a row decoder for RFID transponder EEPROM, Advances in Electrical, Electronic and Systems Engineering (ICAEESE 2016), 155-158, 2016.
 5. **MAS Bhuiyan**, MBI Reaz, LF Rahman, KN Minhad, CMOS spdt switch for WLAN applications, IOP Conference Series: Materials Science and Engineering, 012011, 2015.
 6. **MAS Bhuiyan**, ZA Nordin, MBI Reaz, Voltage Controlled Ring Oscillator for RF Applications in 0.18 μ m CMOS Technology, TESSHI 2014, 443-451, 2014.
 7. MS Amin, MBI Reaz, **MAS Bhuiyan**, SS Nasir, Attitude Heading Reference System based vehicle stationary state detection, 2014 International Conference on Electrical Engineering and Information & Communication Technology (ICEEICT), 1-4, 2014
 8. **MAS Bhuiyan**, MBI Reaz, Shunt-feedback transimpedance amplifier in 0.18 μ m CMOS technology, 2013 2nd International Symposium on Instrumentation and Measurement, Sensor Network and Automation (IMSNA), 687-690, 2013.
 9. MS Amin, J Jalil, **MAS Bhuiyan**, MBI Reaz, A Digital To Analogue Converter Based On Binary To Thermometer Decoder And Current Mirror, 2014 International Technical Conference, 733-742, 2014.
 10. MS Amin, MBI Reaz, **MAS Bhuiyan**, , SS Nasir, GPS and Map Matching Based Vehicle Accident Detection System, 2013 IEEE Student Conference on Research and Development (SCORed), 1-4, 2013
 11. MIB Idris, MBI Reaz, **MAS Bhuiyan**, A Low Voltage VGA for RFID Receivers, 2013 IEEE International Conference on RFID Technologies and Applications, 1-4, 2013.
 12. **MAS Bhuiyan**, MBI Reaz, MAM Ali, A review on on-chip antenna for 2.4 ghz ism band rfid tag, International Conference on Engineering and Built Environment (ICEBE) 2012, 1-6, 2012.
 13. **MAS Bhuiyan**, ZH Mahmood, Study of optical properties of CuInSe₂ thin film, 2nd National Workshop on Advanced Optoelectronic Materials and Devices AOMD 2008, 129-133, 2008.

Book

Total: 05

1. **Mohammad Arif Sobhan Bhuiyan**, Md. Golam Mostafa and Ranu Devi. 2012. *Wireless Multi Meter: Design, Construction and Implementation*. Published by Lap Lambert Academic Publishing GmbH & Co. KG., USA. ISBN: 978-3848412051.
2. **Mohammad Arif Sobhan Bhuiyan**, Md. Mizanur Rahman Chy and Md. Nizam Uddin. 2012. *Multiscale Digital Thermometer: Design, Construction and Implementation*. Published by Lap Lambert Academic Publishing GmbH & Co. KG., USA. ISBN: 978-3848493036.
3. Haddate Ullah, Golam Moktader Nayeem and **Mohammad Arif Sobhan Bhuiyan**. 2012. *Charge Controller and Inverter for Solar Panel*. Published by Lap Lambert Academic Publishing GmbH & Co. KG., USA. ISBN: 978-3848411948.
4. **Mohammad Arif Sobhan Bhuiyan**, Sumon Deb Nath and Mizbah Uddin Titu. 2011. *Wireless Frequency Meter: Design, Construction and Implementation*. Published by Lap Lambert Academic Publishing GmbH & Co. KG., USA. ISBN: 978-3846591987.
5. **Mohammad Arif Sobhan Bhuiyan** and A. S. Bhuiyan. 2011. *Solar Energy in Bangladesh*. Published by Lap Lambert Academic Publishing GmbH & Co. KG., USA. ISBN: 978-3847315476.