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RESEARCH INTEREST

VLSI, RF Communication, RFID, IoT, AI

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

- Associate Professor, Electrical and Electronics Engineering, Xiamen University Malaysia, Malaysia (2021 onwards).
- Assistant Professor, Electrical and Electronics Engineering, Xiamen University Malaysia, Malaysia (2018-2021).
- 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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GRANTS

- **Project Leader**, Transistor structural study for IoT and Cloud Based transceivers for remote infectious disease monitoring system, FRGS/1/2020/TK0/XMU/02/5 ((Ministry of Higher Education (MoHE), Malaysia)), 01 November, 2020 - 30 October 2022, RM 73,200.
- **Project Leader**, Injection locked frequency divider circuit design for IoT and cloud based transceivers for remote infectious disease monitoring system, XMUMRF/2021-C8/IECE/0021 (Xiamen University Malaysia), 01 July 2021 - 30 June 2024, RM 60,000.
- **Project Leader**, Low-power Compact Active Inductor Based CMOS Low Noise Amplifier for RF Receivers, XMUMRF/2018-C2/IECE/0002 (Xiamen University Malaysia), 01 July 2018 - 30 June 2023, RM 60,000.
- **Co-researcher**, Physical Theories of Urban Transport Networks via Transportation Data, FRGS/1/2019/TK08/XMU/02/1 (Ministry of Higher Education (MoHE), Malaysia), 01 January 2020 - 31 December 2022, RM 74,200.00.
- **Co-researcher**, Cross Microprocessor Quad Directional Control Flow Integrity Framework for Securing Internet of Things (IoT) Microprocessor Level Software, XMUMRF/2020-C6/IECE/0016 (Xiamen University Malaysia), 01 July 2020 - 30 June 2023, RM 60,000.
- **Co-researcher**, Chewing Detection and Calorie Monitoring using Wearable Sensor, XMUMRF/2020-C6/IECE/0017 (Xiamen University Malaysia), 01 July 2020 - 30 June 2023, RM 60,000.
- Postgraduate Reseracher, The Fabrication and Testing of A Newly Designed CMOS Transmit/Receive Switch ETP-2013-037 (Research University Grant (ETP), Ministry of Higher Education, Malaysia) (Duration: 01/02/2014-31/01/2016)
- Postgraduate Reseracher, Design of Ring Based Injection Locked Frequency Divider In 0.18 um CMOS Process From Active RFID Applications DLP-2013-016 (Research University Grant (DLP), Ministry of Higher Education, Malaysia) (Duration: 01/08/2013-31/01/2015)
- Postgraduate Reseracher, Prototyping of A Ring VCO for RFID Transponder in Wireless Communication Systems INOVASI-2013-009 (Research University Grant (INOVASI), Ministry of Higher Education, Malaysia) (Duration: 01/10/2013-30/09/2014)

REPRESENTATIVE PUBLICATION

International Journal

Total: 49

1. **MAS Bhuiyan**, MR Hossain, KN Minhad, F Haque, MSK Hemel, OM Dawi, MBI Reaz, KJA Ooi, CMOS Low-Dropout Voltage Regulator Design Trends: An Overview, Electronics, 11, 193, 2022. (Impact Factor 2.397)
2. KS Zaman, MBI Reaz, AAA Bakar, **MAS Bhuiyan**, N Arshad, MHHB Mokhtar, SHM Ali, Minimum Signed Digit Approximation for Faster and More Efficient Convolutional Neural

- Network Computation on Embedded Devices, Engineering Science and Technology, an International Journal, 101153, 2022. (Impact Factor 4.360)
3. TJ Ding, CCW Chang, **MAS Bhuiyan**, KN Minhad, K Ali, Advancements of wind energy conversion systems for low-wind urban environments: A review, Energy Reports, 8, 3406–3414, 2022. (Impact Factor 6.870)
 4. F Haque, MBI Reaz, MEH Chowdhury, SHM Ali, AAA Bakar, T Rahman, S Kobashi, CA Dhawale, **MAS Bhuiyan**, A nomogram-based diabetic sensorimotor polyneuropathy severity prediction using Michigan neuropathy screening instrumentations, Computers in Biology and Medicine, 139, 104954, 2021. (Impact Factor 4.589)
 5. MA Khan, M Ali, M Shah, T. Mahmood, M Ahmad, NZ Jhanjhi, **MAS Bhuiyan**, ES Jaha, Machine Learning-based Detection and Classification of Walnut Fungi Diseases, Intelligent Automation & Soft Computing, 30(3), 771 - 785, 2021. (Impact Factor 1.647)
 6. MJ Islam, S Ahmed, F Haque, MBI Reaz, **MAS Bhuiyan**, MR Islam, A Novel Signal Normalization Approach to Improve the Force Invariant Myoelectric Pattern Recognition of Transradial Amputees, IEEE Access, 9, 79853 - 79868, 2021. (Impact Factor 3.745)
 7. M Majid, MF Hayat, FZ Khan, M Ahmad, NZ Jhanjhi, **MAS Bhuiyan**, M Masud, MA Alzain, Ontology-Based System for Educational Program Counselling, Intelligent Automation & Soft Computing, 30(1), 373 - 386, 2021. (Impact Factor 1.647)
 8. F Haque, MBI Reaz, MEH Chowdhury, G Srivastava, SHM Ali, AAA Bakar, **MAS Bhuiyan**, Performance Analysis of Conventional Machine Learning Algorithms for Diabetic Sensorimotor Polyneuropathy Severity Classification, Diagnostics, 11, 801, 2021. (Impact Factor 3.11)
 9. FK Jérôme, ET Wembe, EZ Bernard, ML Crespo, A Cicuttin, MBI Reaz, **MAS Bhuiyan**, An 8.56 μ W Low-Noise FEE Design Considerations for Silicon Semiconductor Detectors, Sensors, 21(5), 1760, 2021. (Impact Factor 3.275)
 10. MJ Islam, S Ahmed, F Haque, MBI Reaz, **MAS Bhuiyan**, MR Islam, Force-Invariant Improved Feature Extraction Method for Upper-Limb Prostheses of Transradial Amputees, Diagnostics, 11, 843, 2021. (Impact Factor 3.11)
 11. FK Jérôme, ML Crespo, ET Wembe, **MAS Bhuiyan**, A Cicuttin, EZ Bernard, MBI Reaz, A Low-Offset Low-Power and High-Speed Dynamic Latch Comparator with a Preamplifier-Enhanced Stage, IET Circuits, Devices and Systems, 15 (1), 65-77, 2021, (Impact Factor 1.277)
 12. **MAS Bhuiyan**, Z Fan, YJ Leem, LY Lee, MBI Reaz, MTI Badal, and KN Minhad, CMOS series-shunt single-pole double-throw transmit/receive switch and low noise amplifier design for internet of things based radio frequency identification devices, Journal of Microelectronics, Electronic Components and Materials, 50 (2), 105-113, 2020, (Impact Factor 0.476)
 13. FK Jérôme, T Evariste, EZ Bernard, ML Crespo, A Cicuttin, MBI Reaz, **MAS Bhuiyan**, MEH Chowdhury, A 0.35 μ m Low-Noise Stable Charge Sensitive Amplifier Design for Silicon Detector Applications, Journal of Microelectronics, Electronic Components and Materials, 50 (1), 3-14, 2020, (Impact Factor 0.476)
 14. **MAS Bhuiyan**, MTI Badal, MBI Reaz, ML Crespo, A Cicuttin, Design Architectures of the CMOS Power Amplifier for 2.4 GHz ISM Band Applications: An Overview, Electronics, 8(5), 477, 2019, (Impact Factor 2.11)
 15. MTI Badal, MBI Reaz, **MAS Bhuiyan**, CA Dhawale, Nano CMOS Charge Pump for Readerless RFID PLL, Journal of Microelectronics, Electronic Components and Materials, 49(2), 53 - 60, 2019, (Impact Factor 0.476)
 16. MTI Badal, MJ Alam, MBI Reaz, **MAS Bhuiyan**, NA Jahan, High-resolution time to digital converter in 0.13 μ m CMOS process for RFID phase locked loop, Journal of Engineering Science and Technology, 14(4), 1776 - 1788, 2019, (ESCI indexed)
 17. MTI Badal, MBI Reaz, **MAS Bhuiyan**, N Kamal, Design Architectures of the 2.4 GHz CMOS Transmitter for RF Devices, IEEE Microwave Magazine, 20(1), 38-61, 2019, (Impact Factor 3.02)

18. H Soonmin, S Mandati, R Chandran, A Mallik, **MAS Bhuiyan**, Kg Deepa, Preparation of CuInSe₂ Thin Films by using Various Methods-A Short Review, *Oriental Journal of Chemistry*, 35 (1), 1-13, 2019, (ESCI indexed)
19. MTI Badal, MBI Reaz, **MAS Bhuiyan**, N Kamal, Advancement of CMOS Transimpedance Amplifier for Optical Receiver, *Transactions on Electrical and Electronic Materials*, 20(2), 73-84, 2019, (ESCI indexed)
20. **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), 3-10, 2018 (Scopus indexed)
21. MJ Uddin, H Ullah, **MAS Bhuiyan**, Fully Integrated K-Band Active Bandpass Filter In GPDK 90nm CMOS Technology, *Carpathian Journal of Electronic and Computer Engineering*, 10(1), 3-6, 2018, (Scopus indexed)
22. 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, (Impact Factor 0.465)
23. **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, (Impact Factor 0.46)
24. 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, (impact factor 2.11)
25. **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, (Q4 Impact Factor 0.17)
26. **MAS Bhuiyan**, MBI Reaz, MTI Badal, MA Mukit, N Kamal, Design of an Active Inductor-based T/R Switch in 0.13 μm CMOS Technology for 2.4 GHz RF Transceivers, *Transactions on Electrical and Electronic Materials* 17(5):261-269, 2016, (Scopus indexed)
27. 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, (Scopus indexed)
28. **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, *Anais da Academia Brasileira de Ciências* 88 (2), 1089-1098, 2016, (Impact Factor 0.78)
29. **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, (Impact Factor 0.393)
30. **MAS Bhuiyan**, MBI Reaz, J Jalil, LF Rahman, TG Chang, A compact transmit/receive switch for 2.4 GHz reader-less active RFID tag transceiver, *Journal of Central South University* 22 (2), 546-551, 2015, (Impact Factor 0.464)
31. 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, (Impact Factor 1.7)
32. **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, (Impact Factor 1.4)
33. **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, (Scopus indexed)
34. 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, (Impact Factor 0.91)
35. J Jalil, MBI Reaz, **MAS Bhuiyan**, LF Rahman, TG Chang, Designing A Ring-VCO for RFID Transponders in 0.18- μm CMOS Process, *The Scientific World Journal* 2014, 1-6, 2014,

(Impact Factor 1.7)

36. **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, (Scopus indexed)
37. **MAS Bhuiyan**, KA Tarumaraja, MBI Reaz, FH Hashim, Low noise low power transimpedance amplifier in 0.18 μm CMOS technology, Journal of Theoretical and Applied Information Technology 62 (1), 16-20, 2014, (Scopus indexed)
38. **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, (Impact Factor 0.98)
39. **MAS Bhuiyan**, MIB Idris, MBI Reaz, KN Minhad, H Husain, Low Voltage and Wide Bandwidth Class AB Variable Gain Amplifier in 0.18- μm CMOS Technology, Przegląd Elektrotechniczny 2014 (06), 184-187, 2014, (Scopus indexed)
40. 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, (Scopus indexed)
41. 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, (Impact Factor 0.6)
42. 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, (Scopus indexed)
43. 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, (Scopus indexed)
44. 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), 133-13, 2013, (Scopus indexed)
45. **MAS Bhuiyan**, AS Bhuiyan, A Hossain, ZH Mahmood, Studies on optical characteristics of CuInSe₂ thin films, Central European Journal of Engineering 3 (2), 170-173, 2013, (Scopus indexed)
46. WM Kader, H Rashid, M Mamun, **MAS Bhuiyan**, Advancement of CMOS Schmitt trigger circuits, Modern Applied Science 6 (12), 51-58, 2012, (Scopus indexed)
47. 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, (Scopus indexed)
48. 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, (Scopus indexed)
49. 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, (Scopus indexed)

International and Regional Conferences and Proceedings

Total: 25

1. M. Rahman, M.F. Rahman, M.M.H. Munna, K.J.A. Ooi, K.N. Minhad, **MAS Bhuiyan**, and M.H. Miraz, Integrated CMOS Active Low-Pass Filter for IoT RFID Transceiver, 2021 International Conference for Emerging Technologies in Computing, 73-84, 2021.
2. K.N. Minhad, A. Farayez, K.J.A. Ooi, M.B.I. Reaz, **MAS Bhuiyan**, and M.H. Miraz, Sequence Prediction Algorithm for the Diagnosis of Early Dementia Development, 2021 International Conference on Computing, Electronics & Communications Engineering (iCCECE 2021), 48-52, 2021.
3. K.N. Minhad, K.J.A. Ooi, **MAS Bhuiyan**, M.B.I. Reaz, and S.H.M. Ali, Assessments of Autonomic

- Nervous System Biomarker for Emotion Recognition Using Electro dermal Activity Signal, 2020 IEEE-EMBS Conference on Biomedical Engineering and Sciences (IECBES 2020), 1-5, 2021.
4. H.C. Law, K.J.A. Ooi, **MAS Bhuiyan**, and Y.S. Ang, Linear and Nonlinear Terahertz Three-Dimensional Dirac Nano-Plasmonic Waveguides, 2020 IEEE International RF and Microwave Conference (RFM 2020), 1-4, 2020.
 5. K. Raghavan, K.J.A. Ooi, Q.Y. Tan, **MAS Bhuiyan**, B.V.D. Kumar, C.W. Yuen, and M.B.I. Reaz, Smart Traffic Systems Guided by Principles of Traffic Circuit Theorems, 2020 IEEE 8th R10 Humanitarian Technology Conference (R10-HTC), 1-5, 2020.
 6. Q.Y. Tan, K.J.A. Ooi, B.V.D. Kumar, **MAS Bhuiyan**, K. Raghavan, and M.B.I. Reaz, Traffic Management Guided by the Circuit Model of Urban Traffic Networks, 2020 IEEE 8th R10 Humanitarian Technology Conference (R10-HTC), 1-5, 2020.
 7. **MAS Bhuiyan**, K.N. Minhad, K.J.A. Ooi, M.I. Salam, M.H. Miraz and M.B.I. Reaz, Microswitch in 0.13 μm CMOS Process for IoT Device Transceivers, IEEE International Conference on Computing, Networking, Telecommunications & Engineering Sciences Applications 2020 (CoNTESA 2020), 1-4, 2020.
 8. **MAS Bhuiyan**, K.N. Minhad, M.J. Uddin, M.B.I. Reaz, M.T.I. Badal, and H. Ullah, CMOS LNA for IoT RFID, 2nd IEEE International Conference on Artificial Intelligence in Engineering and Technology (ICALET 2020), 1-4, 2020.
 9. **MAS Bhuiyan**, Z. Fan, Y.W. Wei, G.F. Kai, M.B.I. Reaz, and M.T.I. Badal, CMOS Nanoswitch for RF Frontend, 9th IEEE Nanoelectronic Conference (INEC 2019), 1-4, 2019.
 10. 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.
 11. **MAS Bhuiyan**, S Mahmud, R Rahaman, RK Das, H Ullah, A study on the optical properties of co-evaporated CuInSe_2 thin films for high efficiency inorganic solar cell, 2nd International Conference on Physics for Sustainable Development & Technology (ICPSDT-2017), 1-8, 2017.
 12. **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 (ICAESE 2016), 180-184, 2016.
 13. MTI Badal, P. Maroofee, **MAS Bhuiyan**, LF Rahman, MBI Reaz, MA Mukit, Low power delay locked-loop using 0.13 μm CMOS technology, Advances in Electrical, Electronic and Systems Engineering (ICAESE 2016), 176-179, 2016.
 14. LF Rahman, MBI Reaz, **MAS Bhuiyan**, MTI Badal, Design of a row decoder for RFID transponder EEPROM, Advances in Electrical, Electronic and Systems Engineering (ICAESE 2016), 155-158, 2016.
 15. LW Loon, MBI Reaz, **MAS Bhuiyan**, M. Marufuzzaman, MTI Badal, A study on low power phase frequency detectors for delay locked loop, Advances in Electrical, Electronic and Systems Engineering (ICAESE 2016), 147-150, 2016.
 16. BBA Fouzy, MBI Reaz, **MAS Bhuiyan**, MTI Badal, FH Hashim, Design of a low-power high-speed comparator in 0.13 μm CMOS, Advances in Electrical, Electronic and Systems Engineering (ICAESE 2016), 289-292, 2016.
 17. **MAS Bhuiyan**, MBI Reaz, LF Rahman, KN Minhad, CMOS spdt switch for WLAN applications, IOP Conference Series: Materials Science and Engineering, 012011, 2015.
 18. **MAS Bhuiyan**, ZA Nordin, MBI Reaz, Voltage Controlled Ring Oscillator for RF Applications in 0.18 μm CMOS Technology, TESSHI 2014, 443-451, 2014.
 19. 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
 20. 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.

21. **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.
22. 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
23. 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.
24. **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.
25. **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: 06 (Author/Co-author)

1. **Mohammad Arif Sobhan Bhuiyan**, Mamun Bin Ibne Reaz and Md. Torikul Islam Badal. 2018. *PLL Architecture*. Published by Scholars' Press, SIA OmniScriptum Publishing., Latvia. ISBN: **978-620-2-31827-3**
2. **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.
3. **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.
4. 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.
5. **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.
6. **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.

Total: 01 (Editor/Associate Editor)

1. Mamun Bin Ibne Reaz and **Mohammad Arif Sobhan Bhuiyan** 2018. *RF Systems, Circuits and Components*. Published by InTech Open, The Shard, 32 London Bridge Street, London SE1 9SG, United Kingdom. ISBN: 978-1-78985-764-1

Total: 01 (Book Chapter)

1. Markus Heidingsfelder, Peter Zeiner, Kelvin Jian Aun Ooi and **Mohammad Arif Sobhan Bhuiyan** 2021, *Chapter 8: Marking the Mark. george Spencer Brown's operator across the*

Disciplines. George Spencer Brown's "Design with the NOR": With Related Essays, Published by Emerald Publishing Limited, Howard House, Wagon Lane, Bingley BD16 1WA, UK. ISBN: 978-1-83982-611-5.