

Qurat ul Ain

Assistant Professor

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About

Dr. Qurat ul Ain is working as Assistant Professor in the School of Electrical Engineering and Computer Science. Dr. Qurat ul Ain has a PhD in Electronic and Electrical Engineering. Dr. Qurat ul Ain has published 14 research articles & conference papers having a citation count of 149, carried out 0 projects and filed 0 intellectual property.

Qualifications

PhD in Electronic and Electrical Engineering

Sung Kyun Kwan University , South Korea

2017 - 2023

Experience

Assistant Professor

School of Electrical Engineering and Computer Science

2024- Present

Assistant Professor

School of Electrical Engineering and Computer Science

2023 - 2024

PhD Research Fellow

IC Lab, Sungkyunkwan University , SKKU

2017 - 2023

Research Articles

A High-Efficient 95.6% Rectifier with Passive AC-DC Voltage Quadrupler for Low-Frequency Electromagnetic Energy Harvesting System

Syed Adil Ali Shah Qurat ul Ain Nabeel Ahmed Muhammad Basim Young Gun Pu Hyungki Huh YeonJae Jung Seokkee Kim Kang Yoon Lee

IEEE Access , Volume:11, Page:64348-64357

Impact Factor: 3.900 | Quartile: 2 | Citations: 4

DOI: 10.1109/ACCESS.2023.3289291

2023

A Design of Wireless Power Receiver With Gate Charge Recycled Dual-Mode Active Rectifier and Step-Down Converter With 88.2% System Efficiency for Power Management IC

Syed Adil Ali Shah Danial Khan Qurat ul Ain Muhammad Basim Khuram Shehzad Deeksha Verma Pervesh Kumar Joon Mo Yoo Young Gun Pu YeonJae Jung Hyungki Huh Seokkee Kim Keum Cheol Hwang Yangoo Yang Kang Yoon Lee

IEEE Transactions on Power Electronics , Volume:38, Issue:1, Page:1348-1360

Impact Factor: 6.7 | Quartile: 1 | Citations: 5

DOI: 10.1109/TPEL.2022.3204548

2023

A Comprehensive Review on High-efficiency RF-DC Converter for Energy Harvesting Applications

Muhammad Basim Qurat ul Ain Khuram Shehzad Syed Adil Ali Shah Azam Ali Byeongi Jang Young Gun Pu Joon Mo Yoo Kang Yoon Lee

Journal of Semiconductor Technology and Science , Volume:22, Issue:5, Page:304-325

Impact Factor: 0.4 | Quartile: 4 | Citations: 8

DOI: 10.5573/JSTS.2022.22.5.304

2022

Design of a Power Regulated Circuit with Multiple LDOs for SoC Applications

Danial Khan Muhammad Basim Qurat ul Ain Syed Adil Ali Shah Khuram Shehzad Deeksha Verma Kang Yoon Lee

Electronics , Volume:11, Issue:17, Article Number:2774

Impact Factor: 2.9 | Quartile: 2 | Citations: 7

DOI: 10.3390/electronics11172774

2022

A High-Efficiency Triple-Mode Active Rectifier With Gate Charge Recycling Technique for Wireless Power Transfer System

Qurat ul Ain Danial Khan Muhammad Basim Seong Jin Oh Khuram Shehzad Byeongi Jang Syed Adil Ali Shah Jong Wan Jo Young Gun Pu Keum Cheol Hwang Youngoo Yang Kang Yoon Lee

2022

IEEE Access , Volume:10, Page:45943-45953

Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 3

DOI: 10.1109/ACCESS.2022.3170064

A Highly Efficient RF-DC Converter for Energy Harvesting Applications Using a Threshold Voltage Cancellation Scheme

2022

Muhammad Basim Danial Khan Qurat ul Ain Khuram Shehzad Syed Adil Ali Shah Byeongi Jang Young Gun Pu Joon Mo Yoo Joon Tae Kim Kang Yoon Lee
Sensors , Volume:22, Issue:7, Article Number: 2659

Impact Factor: 3.9 | **Quartile:** 2 | **Citations:** 13

DOI: 10.3390/s22072659

A High-Efficiency Fast Transient COT Control DC-DC Buck Converter with Current Reused Current Sensor

2021

QURAT UL AIN Danial Khan Byeongi Jang Muhammad Basim Khuram Shehzad Muhammad Asif Deeksha Verma Imran Ali Young Gun Pu Keum Cheol Hwang Younggoo Yang Kang Yoon Lee

IEEE Transactions on Power Electronics , Volume:36, Issue:8, Page:9521-9535

Impact Factor: 5.967 | **Quartile:** 1 | **Citations:** 33

DOI: 10.1109/TPEL.2021.3052198

A low-power 12-bit 20 ms/s asynchronously controlled sar adc for wave its sensor based applications

2021

Khuram Shehzad Deeksha Verma Danial Khan Qurat ul Ain Muhammad Basim Sung Jin Kim Behnam Samadpoor Rikan Young Gun Pu Keum Cheol Hwang Younggoo Yang Kang Yoon Lee

Sensors , Volume:21, Issue:7, Article Number: 2260

Impact Factor: 3.847 | **Quartile:** 2 | **Citations:** 11

DOI: 10.3390/s21072260

A High Performance Adaptive Digital LDO Regulator with Dithering and Dynamic Frequency Scaling for IoT Applications

2020

Muhammad Asif Imran Ali Danial Khan Muhammad Riaz Ur Rehman Qurat ul Ain Muhammad Basim Young Gun Pu Min Jae Lee Keum Cheol Hwang Younggoo Yang Kang Yoon Lee

IEEE Access , Volume:8, Page:132200-132211

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 10

DOI: 10.1109/ACCESS.2020.3009601

A 2.45 GHZ high efficiency CMOS RF energy harvester with adaptive path control

2020

Danial Khan Muhammad Basim Khuram Shehzad Qurat ul Ain Deeksha Verma Muhammad Asif Seong Jin Oh Young Gun Pu Sang Sun Yoo Keum Cheol Hwang Younggoo Yang Kang Yoon Lee

Electronics , Volume:9, Issue:7, Article Number: 1107, Page:14

Impact Factor: 2.9 | **Quartile:** 2 | **Citations:** 16

DOI: 10.3390/electronics9071107

Design of a Low Power 10-b 8-MS/s Asynchronous SAR ADC with On-Chip Reference Voltage Generator

2020

Khuram Shehzad Deeksha Verma Danial Khan Qurat ul Ain Muhammad Basim Sung Jin Kim Young Gun Pu Keum Cheol Hwang Younggoo Yang Kang Yoon Lee

Electronics , Volume:9, Issue:5, Article Number: 872

Impact Factor: 2.397 | **Quartile:** 3 | **Citations:** 14

DOI: 10.3390/electronics9050872

A Design of 8 fJ/Conversion-Step 10-bit 8MS/s Low Power Asynchronous SAR ADC for IEEE 802.15.1 IoT Sensor Based Applications

2020

Deeksha Verma Khuram Shehzad Danial Khan Qurat ul Ain Sung Jin Kim Dong Soo Lee Young Gun Pu Min Jae Lee Keum Cheol Hwang Younggoo Yang Kang Yoon Lee

IEEE Access , Volume 8, Pages 85869-85879

Impact Factor: 3.367 | **Quartile:** 2 | **Citations:** 25

DOI: 10.1109/ACCESS.2020.2992750

A Design of Ramp Generator With Ramp trimming Control Bits in DC DC Buck Converter for IoT

2022

Applications

Qurat ul Ain Danial Khan Muhammad Basim Syed Adil Ali Shah Kang Yoon Lee

2022 International Conference on Electronics, Information, and Communication, ICEIC 2022, res.country(121,)

Citations: N/A

DOI: 10.1109/ICEIC54506.2022.9748436

A High Power Low Dropout Voltage Regulator Design with an Enhanced Resistive Bank Circuit for

2020

Powering an RF IC for DSRC Applications

Qurat ul Ain Danial Khan Muhammad Basim Khuram Shehzad Deeksha Verma Kang Yoon Lee

2020 35th International Technical Conference on Circuits/Systems, Computers and Communications (ITC-CSCC), res.country(113,)

Citations: N/A

DOI: Nil