

Special Issue

RF Front-End Circuit and Device for 5G/4G LTE

Message from the Guest Editors

The continuous growth and adoption of smartphone access to voice and data services for billions of people worldwide and the explosive requirement for high data rates are driving the adoption of 4G/5G long-term evolution (LTE) and WiFi6. 5G will give higher data capacity and low latency using sub-6GHz bands and mmWave spectrum together with other RF technologies such as ultra-wideband (UWB) and sensing and computation techniques will enable multiple services. 4G/5G LTE basically requires more RF carriers compared to the legacy voice (2G/3G), so there is an important challenge for RF front-end (RFFE) in terms of what parts of the RF systems are portioned in advanced CMOS nodes and what RF and analog blocks are integrated with other components such as acoustic duplexers and filters (FBAR, SAW, and BAW) in multiple modules (RF FEMs). This Special Issue of *Applied Sciences* will present an in-depth discussion of new devices and technologies for RF front-ends toward 4G/5G-LTE with WiFi6 that will have an impact on the electronics world in the next decade.

Guest Editors

Dr. Heesauk Jhon

Department of Electrical, Information and Communication Engineering,
Mokpo National University, Mokpo 530729, Korea

Dr. Min-Su Kim

Department of Digital Electronics, Daelim University College, 29
Imgoklo, Dongan-gu, Anyang-si, Gyunggi-do 431-715, Korea

Deadline for manuscript submissions

closed (15 October 2021)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/59717

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)