

**Book Series:** Science, Technology, and Management **Research Practices:** CRC Press, Taylor & Francis Group, USA Title of Book: High-K Materials in Multi-Gate Devices

# Scope of the Book:

"High-K Material in Multi-Gate Devices" is proposed to research articles based on application of highk materials/dielectrics in semiconductor FET devices. The primary objective is to bring the need and applications of the high-k materials in multi-gate FET devices in a single volume which can add to the existing knowledge of undergraduates and post graduate students, researchers, academicians, and Industry peoples. The book intends to cover the main aspect of advance FET devices with high-k materials for analog/digital application and circuits implemented with high-k materials-based FET devices.

### Topic of Interest:

We welcome book chapter contribution on the following (but not limited to) themes:

- Review of high-k material in FET devices
- Introduction to Multi-Gate FET devices
- Advance FET design using high-k gate dielectric and characterization for low power VLSI
- Advance FET design using high-k spacers & dual-k spacers
- Low power high-k dielectric FET based bio-sensors
- Memory design with advance FET with high-k materials
- Analog/Digital circuit implementation using high-k gate dielectric
- Analog/Digital circuit implementation using high-k spacers
- Fabrication techniques for multi-gate FETs with high-k dielectric
- Fabrication issues and Technological issues with the high-k dielectrics

#### Important Dates:

One Page Abstract	: July 25, 2020
Abstract Acceptance	: July 30, 2020
Full Chapter Submission	: October 15, 2020
Review Results Returned	: October 30, 2020
Revised Version Submission	: November 15, 2020
Final Acceptance Notification	: November 20, 2020
Final Version Due	: November 30, 2020

## Submission Link:

https://easychair.org/conferences/?conf=highkmmgd2021

#### **Book Editors:**



**Dr. Shubham Tayal** Associate Professor, Dept. of ECE Ashoka Institute of Engineering & Technology, Email Id: drtshubham@gmail.com



**Dr. Parveen Singla** Professor, Dept. of ECE Chandigarh Engineering College-CGC, Landran Punjab, India Email Id: parveen.ece@cgc.edu.in



Dr. J Paulo Davim Professor, Dept. of Mechanical Engg. University of Aveiro, Portugal Email Id: pdavim@ua.pt

Note:

- Book will be submitted to major abstract and Indexing Database.
- There is no Publication/Processing Charges for contributing chapter for this edited book.



**CRC** Press Taylor & Francis Group