Active and Passive Electronic Components

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Special Issue on

Organic and Hybrid FETs and their applications

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Organic and hybrid field effect transistors (FETs) are emerging as a potential alternative to silicon FETs. Organic field effect transistors (OFETs) are being developed for several applications including sensing, electronic skin, and active and passive circuits. FETs are basic building blocks for the electronics circuits. High performance electronic circuits require high mobility FETs. OFETs are limited in terms of mobility and this limitation is overcome by hybrid materials. One of the recently investigated types of FETs is based on grapheme which achieves mobilities as high as 1000 cm^2/Vs. This special issue will deal with the organic, hybrid, and graphene based FETs and their potential applications.

Potential topics include but are not limited to the following:

- Modeling, simulation, fabrication, and characterization of OFETs and hybrid and graphene FETs
- Sensing applications of organic and graphene FETs
- Issues and challenges of OFETs and hybrid and graphene FETs
- Compact models for OFETs and hybrid FETs and graphene FETs
- Carrier transport modeling of graphene FETs
- Stability issue of organic and hybrid FETs
- Sensing applications of graphene FETs
- RF, analog, and digital circuit applications of OFETs
- Reliability issues in nonsilicon FETs

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