Special Issue

Printed Carbon-Based Electronics and Sensor Systems

Message from the Guest Editors

Carbon materials are widely employed in printed technologies as composites of black carbon, carbon nanotubes or graphene particles in a polymer matrix. Their varied morphology is useful in formulating inks that are able to be processed by different printing techniques on a vast variety of substrates, inorganic or organic, rigid, flexible or stretchable. Despite their similar chemical composition, the physical and chemical properties of each type of carbon have dramatic differences, underplaying different roles in device mechanistic and, thus, impacting device final characteristics. Open technological challenges remain open concerning ink formulation, material deposition and characterization, device design and process conditions to establish robust fabrication routes of printed carbon-based electronics and sensor systems, and novel insights are needed to pave the way for real applications spanning from analytical sensors in medical, food, agriculture, and environmental parameters monitoring.

The aim of this Special Issue is to deliver the recent advances on “Printed Carbon-Based Materials” and their applicability to sensors or electronic system devices.

Guest Editors

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Chemosensors continues to grow as a forum for all manners of sensing that encompass chemistry. *Chemosensors* is published in open access format – all articles and content are released on the internet immediately following acceptance, thus allowing unlimited access to the content as soon as it is published. We would be happy to have you join our growing list of authors.

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