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Nanowires and Nanoprobes – Functionalized Arrays

Guest Editor:

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Deadline for manuscript submissions:
closed (30 June 2020)

Message from the Guest Editor

Nanowires not only represent one of the most important enabling technologies in electronics but have also lead to sensors with molecular scale sensitivity. This includes nanowire transistors and functionalized nanowire probes. We are calling for papers that highlight advances in nanowire research that may lead functional systems with an emphasis on detector arrays. As examples, we hope to gather articles that relate progress in the fabrication and utilization of arrays of nanowire transistor sensors and vertically oriented functional nanoprobes. The range of materials spans from Si and Ge to BN, metal oxides and carbon nanotubes. In recent research directed self-assembly has been utilized for device fabrication and functionalization. These platforms have exciting potential as electrical, chemical, optical, magnetic, and mechanical sensors that can provide highly sensitive spatial and temporal information about the systems being studied.

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Message from the Editor-in-Chief

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