Special Issue

Advances in Multifunctional Microsensor Technology

Message from the Guest Editor

Environmental sensing of airborne hazards continues to be of paramount importance to defense and security professionals. As operators continue to be laden with personal protective equipment and command and control technologies, the limitations of extant air monitoring detection/identification technologies present a cumbersome burden on operators. New technologies based on chemiresistance and/or chemicapacitance are emerging as viable approaches towards the development of miniaturized, multifunctional electronic sensors that afford unprecedented sensitivity, selectivity, and multiplexing to empower end users with unprecedented hazard detection and warning capabilities. This Special Issue will explore the cutting edge research efforts undertaken by technology leaders in this emerging multidisciplinary field in which surface science, microelectronics, and signal processing converge to yield a new generation of miniature multifunctional sensor technology.

Guest Editor

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