Special Issue

Neural (Nerve) Electrode

Message from the Guest Editor

During the past decade, reports have emerged of novel neural (nerve) electrode technologies that enable precise, biocompatible, and long-term recording of neuronal activities. These technologies represent a useful tool for neuroscientists and clinicians, providing them with the means to probe the functionality of neural circuitry in health and modulate activity in disease states. In recent times, the neural electrode technologies have matured via a variety of mechanisms and micro/nanofabrication processes that involve brain–machine interfaces, multi-functionality (drug delivery, chemical sensing, etc.), electrode–cell interface, optoelectronic stimulation, and flexible electronics. This present Special Issue will highlight recent advances in the field of neural (nerve) electrodes. Contributions related to the relevant technologies, neural (nerve) electrodes, novel design and fabrication methods, and applications are all welcome.

Guest Editor

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