Joint Special Issue

Electrochemistry of Low Dimensional and Nanostructured Carbon Materials: Applications in Sensing and Energy Storage

Message from the Guest Editors

In the last two decades, carbon has transcended beyond its traditional allotropes, graphite and diamond, into a variety of novel forms, distinguished by the unique combinations of their atomic bonding (SP2 or SP3), nanosized structural features (such as pore size, surface features), dimensional confinements (0–3 D), and degree of crystallinities (amorphous to crystalline). These new forms exhibit interesting mechanical, chemical, electronic, and optical properties and have proven their potential in a wide range of applications.

The Special Issue focuses on the electrochemical properties of these novel carbon materials (such as carbon nanotubes, graphenes, fullerenes, carbon onions, carbon dots, mesoporous carbons, and diamond nanocrystals, as well as their derivatives) and explores their applications in chemical sensing, biosensing, and energy storage; the three areas where their unique electrochemical properties have found a direct relevance. Along with original and unpublished research work, comprehensive reviews covering relevant areas are also welcome.

Guest Editors

Dr. Vivek Kumar
Suffolk County Community College, The State University of New York, Brentwood, NY 11779, USA
Dr. Charles C. Chusuei
Chemistry Department, Middle Tennessee State University, Murfreesboro, TN 37132, USA

Deadline for manuscript submissions

closed (1 October 2021)

Participating open access journals:

Molecules

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/31529

Solids

Impact Factor 2.4
CiteScore 4.5

mdpi.com/si/62375

MDPI