



Chemistry & Physics of Carbon: Volume 30: v. 30 (Chemistry and Physics of Carbon)

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Written by distinguished researchers in carbon, the long-running *Chemistry and Physics of Carbon* series provides a comprehensive and critical overview of carbon in terms of molecular structure, intermolecular relationships, bulk and surface properties, and their behavior in an amazing variety of current and emerging applications, ranging from nanotechnology to environmental remediation. **Volume 30** not only retains the high-quality content and reputation of previous volumes, but also complements them with reliable and timely coverage of the latest advances in the field.

The first chapters analyze progressive approaches to controlling more precisely the structure, morphology, and surface properties of novel activated carbons. They cover methods using activating agents such as alkaline hydroxides as well as endo- and exotemplates made from zeolites, silica, and colloidal crystals. The third chapter examines techniques for characterizing carbon surface chemistry, including electrochemical, spectroscopic, and chromatographic methods. The fourth and final chapter compares the virtues of exfoliated graphite, carbonized fir fibers, carbon fiber felt, and charcoals in solving oil spill problems, a matter of increasing environmental concern.

Emphasizing key experimental results, practical aspects, and cutting-edge applications in every chapter, **Volume 30** is a vital resource for those developing new technologies such as drug delivery, adsorbents for oil/chemical spills, materials processing, high-performance nanocarbons, and energy storage and conversion devices, including lithium ion batteries, supercapacitors, and fuel cells.

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