## **Special Issue**

### Preparation and Application of Carbon Adsorbent

### Message from the Guest Editors

Carbon materials are the primary choice for adsorption technology because of their large specific surface area and abundant pore structure, as well as their wide sources, good stability, environmental friendliness, and low price. Commonly used carbon materials are activated carbon, carbon aerogel, graphene, carbon nanotubes, biochar, etc. With the development of carbon material preparation technology, new carbon materials have been developed, including MOF-based carbon materials, polymer-based carbon materials, ordered mesoporous carbon materials, hierarchical porous carbon materials, etc. These carbon materials are used in gas separation/adsorption, ion separation/adsorption, organic separation/adsorption, etc. In order to develop and optimize carbon adsorption materials and explore adsorption behavior and mechanisms at the molecular level, molecular simulation has become the main research method in concert with experimental methods. This Special Issue focuses on, but is not limited to: (1) carbon adsorption material preparation; (2) adsorption mechanism; (3) adsorption kinetics, adsorption isotherm, and adsorption thermodynamics; and (4) adsorption process simulation.

### **Guest Editors**

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### Deadline for manuscript submissions

closed (31 October 2023)



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Separations offers the scientific community a highquality, open-access journal option with rapid time-topublication without any sacrifice of a rigorous peerreview process. We invite contributions ranging from fundamental characterization and instrumentation development through application of techniques to shed light on a broad spectrum of separation science needs. Since inception, *Separations*, has become unique in its combination of rapid publication and thorough scientific content. We invite you to consider us for your next contribution.

### Editor-in-Chief

Prof. Dr. Frank L. Dorman Department of Chemistry, Dartmouth College, Hanover, NH 03755, USA

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