

## Special Issue

# Design, Modeling, and Optimization of Adsorption Process for Pollutant Removal

### Message from the Guest Editors

Today, one of humanity's greatest challenges is the remediation of the planet—the elimination of the various pollutants that continually damage the planet's diverse ecosystems. The search for systems that enable such remediation is a significant challenge; in this sense, adsorption systems are emerging as an alternative, with the added challenge of designing, optimizing, and modeling new adsorbent materials that facilitate the removal of both organic and inorganic pollutants. This Special Issue aims to address recent research about the design, modeling, and optimization of the adsorption process for pollutant removal. The topic includes, but is not limited to:

- Desing of new adsorbent;
- Mesoporous Silica used to remove pollutants;
- MOFs used to remove pollutants;
- Biochar and activated carbon used to remove pollutants;
- Graphene used to remove pollutants;
- Bio adsorbent used to remove pollutants;
- Magnetic composites used to remove pollutants;
- Polymer materials used to remove pollutants and recover metal ions of an aqueous system;
- Adsorbent materials used to recover metal ions of an aqueous system;
- Modeling and optimization of the adsorption process.

### Guest Editors

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