



Colloid-Based Porous Materials: Design and Catalytic Performance

Guest Editor:

Dr. Tanya Shirman

1. Metalmark Innovations,
Boston, MA, USA
2. Harvard John A. Paulson
School of Engineering and
Applied Sciences, Cambridge,
MA, USA

Deadline for manuscript
submissions:

closed (20 August 2022)

Message from the Guest Editor

Colloid-templated materials provide many advantages in the design of catalysts for a wide range of applications. The assembly process presents many degrees of freedom, allowing for architectural and compositional tunability, producing a porous network whose various features can be pre-designed and controlled, including wall thickness, pore size, pore interconnectivity, and pore shape. Post-processing allows for further control over many of those aspects as well as for chemical functionalization and incorporation of additional functional materials. During the last decade, colloid templated catalysts have been designed for many catalytic processes including oxidation and reduction in industrial and automotive harmful byproducts, chemical fuels catalysis, biomass upgrading, photocatalysis, and water splitting.

The issue aims to highlight our current knowledge and open questions on this exciting theme. We would be honored to feature your work on this topic as we believe you could make an excellent contribution based on your expertise in this field.

