



## Research Progress on the Interaction of Metal Ions with Colloids and Surfaces

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### Message from the Guest Editors

The mobility and retardation of metals and other compounds in the geosphere strongly depends on the stability of their colloid and mineral surface complexes, respectively. On the other hand, the adsorption of metals and other pollutants by adsorbent materials including metal oxides, minerals, nano and composite materials, MOFs, biomasses, and carbon/biochar has attracted the attention of the research community for the development of efficient adsorbent systems in order to cover the steadily increasing demand for metals used in energy and environmental applications, and to design cost-effective water treatment procedures.

This Special Issue invites reviews and/or research articles on novel studies related to the adsorption of metals/metalloids and other chemical substances by colloids, minerals, nanomaterials and composites, carbon-based, and biochar materials, including their preparation and characterization.





## Editor-in-Chief

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## Message from the Editor-in-Chief

Now more than ever, research is called for to produce technologies and improve knowledge to solve the major challenges faced by our society. The development of new materials and devices for (without the ambition to be exhaustive) energy, health and food technology, together with the need for establishing processes that reduce the impact on critical resources and the environment, is indeed at the center of most contemporary research. Surface science and engineering play a key role in this regard. Refining surfaces and their modifications provides new materials, architectures and processes with a huge potential to aid most societal challenges. *Coatings* is a well-established, peer-reviewed, online journal that focuses on the dissemination of publications in the field of surface science and engineering. *Coatings* publishes original research articles that report cutting-edge results and review papers on the hottest topics.

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