



Prevention and Control of Heavy Metal Water Pollution

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Message from the Guest Editors

Exposure to heavy metals, such as cadmium, mercury, chromium, arsenic, and lead, may negatively impact human health and surrounding ecosystems. Thus, it is critical to prevent and control the presence of heavy metals in water treatment.

Because the life cycle of different heavy metals are unique and complex, the problems generated by them are worldwide issues for human society's sustainable growth. This Special Issue is collecting original articles, review and short communications on a variety of topics related to heavy metals in water (but not limited to):

- (1) Heavy metal removal using various bio-sorbent materials (biochar, activated carbon along with others);
- (2) Detecting and tracking various heavy metals in real-world water situations;
- (3) Advanced removal techniques for heavy metals in water remediation;
- (4) Magnetic materials in heavy metal removal;
- (5) Mechanistic heavy metal removal in water treatment;
- (6) Advanced analytical methods of heavy metals in water;
- (7) Life cycle assessment of heavy metal removal in water;
- (8) Techno-economic evaluation of cost-effective heavy metal removal approaches.





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Message from the Editor-in-Chief

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