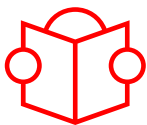

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Research field
Chemistry

PhD title
**Perfluoroalkyl substances in
source and treated drinking
water, and their removal using
corn-cob-derived biochar**



Keywords

- Perfluoroalkyl substances
- Source and treated drinking water
- Biochar
- Water treatment

Summary

Perfluoroalkyl substances (PFAS) are synthetic organic compounds known for their persistence, bioaccumulation and adverse health effects. This class of organic compounds has attracted global attention since the early 2000s. PFAS are ubiquitous in the environment as they are widely used in both consumer and industrial applications. Water contaminated with PFAS can indirectly contribute to human exposure thus posing a

threat to the public health. PFAS have caused havoc on aquatic and human life and therefore, the removal of such harmful substances is a primary priority. Biochar, due to its relative abundance, low cost, and comparative sorptive characteristics, has been regarded as viable for environmental remediation and water treatment. This study will investigate the occurrence of PFAS in source and treated drinking water as well as evaluate the efficacy of corn-cob-derived biochar for PFAS removal.



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