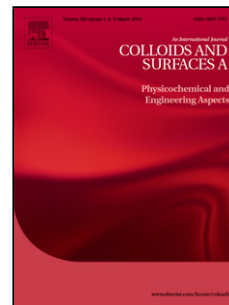


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Title: Highly efficient removal of arsenic(III) from aqueous solution by zeolitic imidazolate frameworks with different morphology

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Highly efficient removal of arsenic(III) from aqueous solution by zeoliticimidazolate

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frameworksZIFs with different morphology

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Highlights

- Three ZIFs with different morphologies are synthesized via green methods;
- The three ZIFs exhibited excellent As(III) adsorption capacity of over 100 mg/g;
- Surface area of ZIFs is not the dominated factor for arsenic adsorption;
- Hydroxyl substitution is the main mechanism for arsenic removal.

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