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Title: Mesoporous Na⁺SiO₂ spheres for efficient removal of Cr³⁺ from aqueous solution

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Mesoporous Na⁺-SiO₂ spheres for efficient removal of Cr³⁺ from aqueous solution

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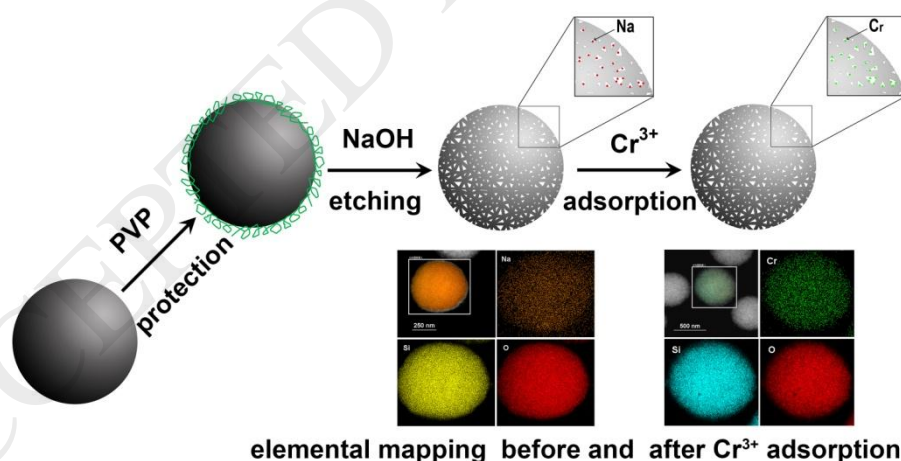
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Graphical abstract

Mesoporous Na⁺-SiO₂ spheres with large surface areas, high porosities and tunable Na⁺ contents were used for the adsorption of Cr³⁺ from aqueous solution. Ion-exchange between the Na⁺ and Cr³⁺ played the leading role in the adsorption process while the static adsorption played a minor role in the overall performance.



Highlights

- Na⁺-SiO₂ spheres with high porosity and tunable Na⁺ content were prepared.

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