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Title: Synthesis of geopolymer-supported zeolites via robust one-step method and their adsorption potential

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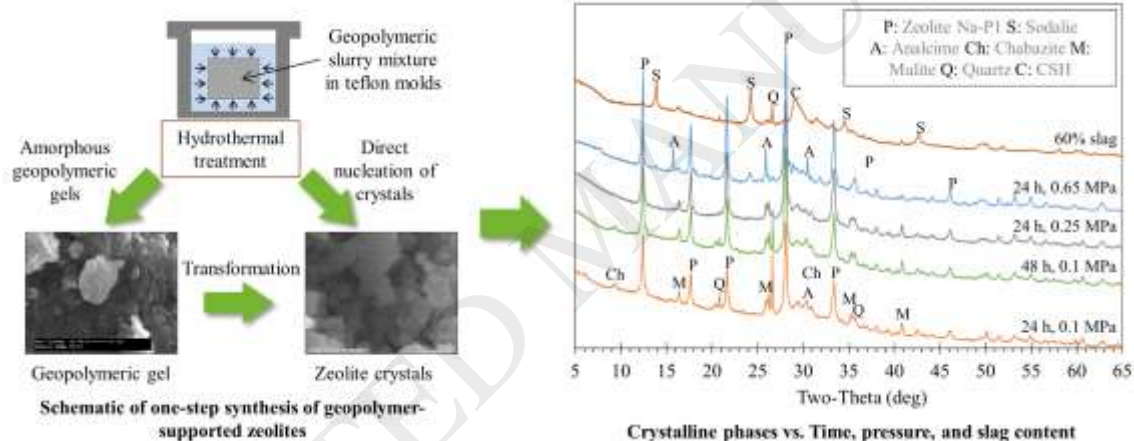
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Graphical abstract



Highlights

- A robust one-step method is proposed to synthesize geopolymer-supported zeolites.
- Zeolite yield was highly correlated with time, pressure, molarity and slag content.
- Synthesized samples exhibited the characteristics of mesoporous materials.
- A high adsorption capacity of 37.9 mg, Pb²⁺/g, bulk-type adsorbents was achieved.

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