### عنوان مقاله:

Synthesis of mesoporou s SBA-1\u03e4 nanopar ticles using stem sweep ash silica for adsorptio n kinetics of the cationic dye, Azure B, from aqueous solut ion

## محل انتشار:

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تعداد صفحات اصل مقاله: 2

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#### خلاصه مقاله:

In this study, the application of Synthe sized mesop orous SBA-1a nanoparticles from stem sweep ash (SSA) silica for adsorption kinetics of the cationic dy e from aque ous solution were inverstigated. silica was extracted from SSA with approximat ely λ<sub>2</sub>% purity. The p resent study used stem sweep, whic h is an agric ultural wast e, as silica source for m esoporous SBA-1a nanoparticles. The synthe sized SBA -1a nanopar ticles are rod-like sha pes with average diameter of AY n m and length in the ra nge of ۵۰-۲۵۰ nm. Finally in this work, adso rption kineti cs of a cati onic dye, Azure B, from aqueous solution were evaluate d with resp ect to initial dye concentration, temp erature, pH, mixing rat . e and sorben t dosage

**کلمات کلیدی:** SBA -۱۵ nanopar ticles, stem sweep, silica , cationic d ye, Azure B

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