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Bifunctionalized ordered mesoporous organosilica synthesized in deep eutectic solvent for extraction of triazine herbicides from watermelon

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HIGHLIGHTS

- C₈-AMS has two main functional groups which improved its selectivity.
- An environmental friendly method for C₈-AMS synthesis was provided.
- A C₈-AMS-SPE method was developed for extraction of triazines in watermelon.

ABSTRACT

A C₈-and-amino-bifunctionalized ordered mesoporous organosilica (C₈-AMS) was prepared in a deep eutectic solvent—a green solvent—that was used as the reaction medium for this procedure instead of organic solvents or other catalyst for the first time. This method provided a nontoxic way for C₈ grafting and obtaining an ordered mesoporous organosilica material with both hydrophilic and hydrophobic groups. Besides advantages such as its large surface area, regular and uniform pore size, and

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