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## Advances and applications of graphitic carbon nitride as sorbent in analytical chemistry for sample pretreatment: A review

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### Highlights

- G-C<sub>3</sub>N<sub>4</sub> had been applied to sample pretreatment with SPE, MSPE and SPME modes.
- The in-built N-rich functional groups and electronic delocalization properties endow g-C<sub>3</sub>N<sub>4</sub> with complex sorption mechanism.
- The physicochemical properties and sorption behaviors of g-C<sub>3</sub>N<sub>4</sub> can be influenced by the polymerization temperature, the type of precursors, and the solution pH and ion strength.
- Numerous modification methods had been exploited to enhance the sorption ability of g-C<sub>3</sub>N<sub>4</sub>.

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