

Highlights for “Functionalized Graphene Sheets with Poly(ionic liquid)s and High Adsorption Capacity of Anionic Dyes”

Graphene sheets were covalently functionalized with poly(1-vinylimidazole) (PVI) type poly(ionic liquid) through a quaternarization reaction, which exhibited high capability of 1910 $\text{mg}\cdot\text{g}^{-1}$ for removal of anionic dye from water solution. The high adsorption capacity and facile regeneration by centrifugal separation suggest that chemically-converted graphene sheets with poly(ionic liquid)s possesses great application potential as an adsorbent for the purification of water containing anionic organic dyes.

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