

POLYANILINE-DICATIONIC IONIC LIQUID
COATED WITH MAGNETIC
NANOPARTICLES COMPOSITE FOR
MAGNETIC SOLID PHASE EXTRACTION OF
POLYCYCLIC AROMATIC HYDROCARBONS
IN ENVIRONMENTAL SAMPLES

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ABSTRACT

In this present study, magnetic nanoparticles (MNPs) nanocomposites modified with polyaniline (PANI) coated newly synthesised dicationic ionic liquid (DICAT) forming MNP-PANI-DICAT were successfully synthesised as new generation material for magnetic solid phase extraction (MSPE). MNP-PANI-DICAT was characterised by FT-IR, NMR, CHN, BET, SEM, TEM, and VSM techniques and the results were compared with MNP-PANI and native MNP. This new material was applied as a magnetic adsorbent for the pre-concentration and separation of

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