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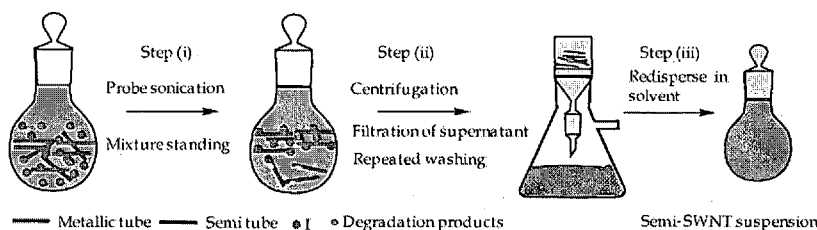
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(54) Title: METHODS OF ENRICHING DIFFERENT SPECIES OF CARBON NANOTUBES



(57) Abstract: A method of enriching specific species of carbon nanotubes by exposing a composition of carbon nanotubes to an azo compound is provided. The method includes a) mixing the azo compound with a suspension comprising the composition of carbon nanotubes to form a mixture; b) incubating the mixture to react the azo compound with the carbon nanotubes; and c) separating a supernatant and a precipitate formed in the mixture. An electrode and a field-effect transistor comprising a single-walled carbon nanotube species enriched using the method are also provided.