

Production of graphene/polyethylene nanocomposites using graphene/(n-BuCp)₂ZrCl₂ system

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The synthesis of graphene/polyethylene nanocomposites via in-situ polymerization using graphene/(n-BuCp)₂ZrCl₂ system was studied. We believe that the simple method for producing graphene/(n-BuCp)₂ZrCl₂ resulted in the increasing MW of graphene/PE nanocomposites. Graphene plays a role not only as a support for adsorption, but also as an additional ligand to (n-BuCp)₂ZrCl₂ during ethylene polymerization.