

Preparation of High Performance PP/rGO Nanocomposites through a Combined in situ Polymerization and Masterbatch Method

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Table S1. Composition of EG and GO

	C	H	O	N
Expanded Graphite	98.05	0.07	0.00	0.11
GO	45.32	2.01	42.03	0.00

Table S2. Composition of Catalysts

Catalyst	Mg (wt%)	Ti (wt%)
GO/BuMgCl/TiCl ₄	5.7	3.7
GO/BuMgCl/DIBP/TiCl ₄	3.8	1.9
GO/BuMgCl/DS/TiCl ₄	4.6	3.0

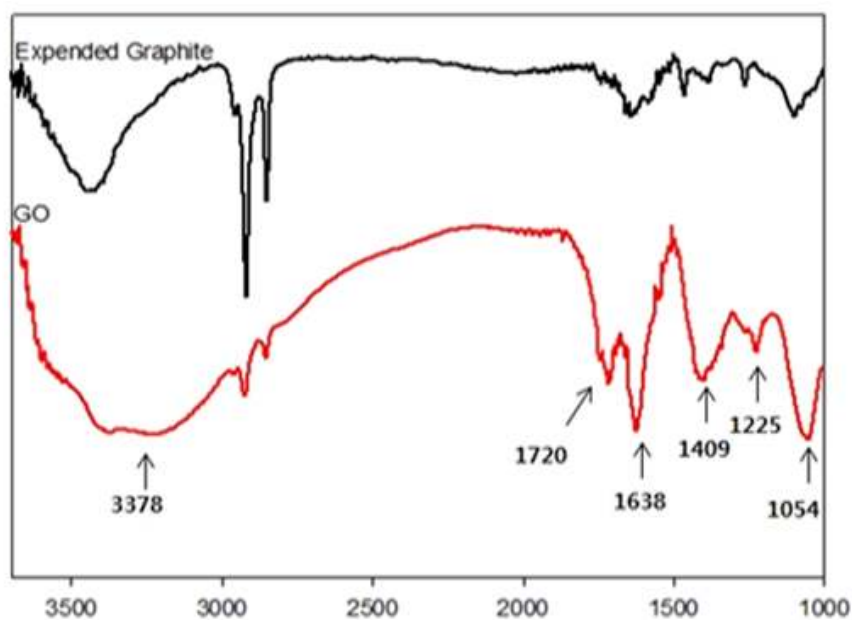


Figure S1. FT-IR spectra of EG and GO

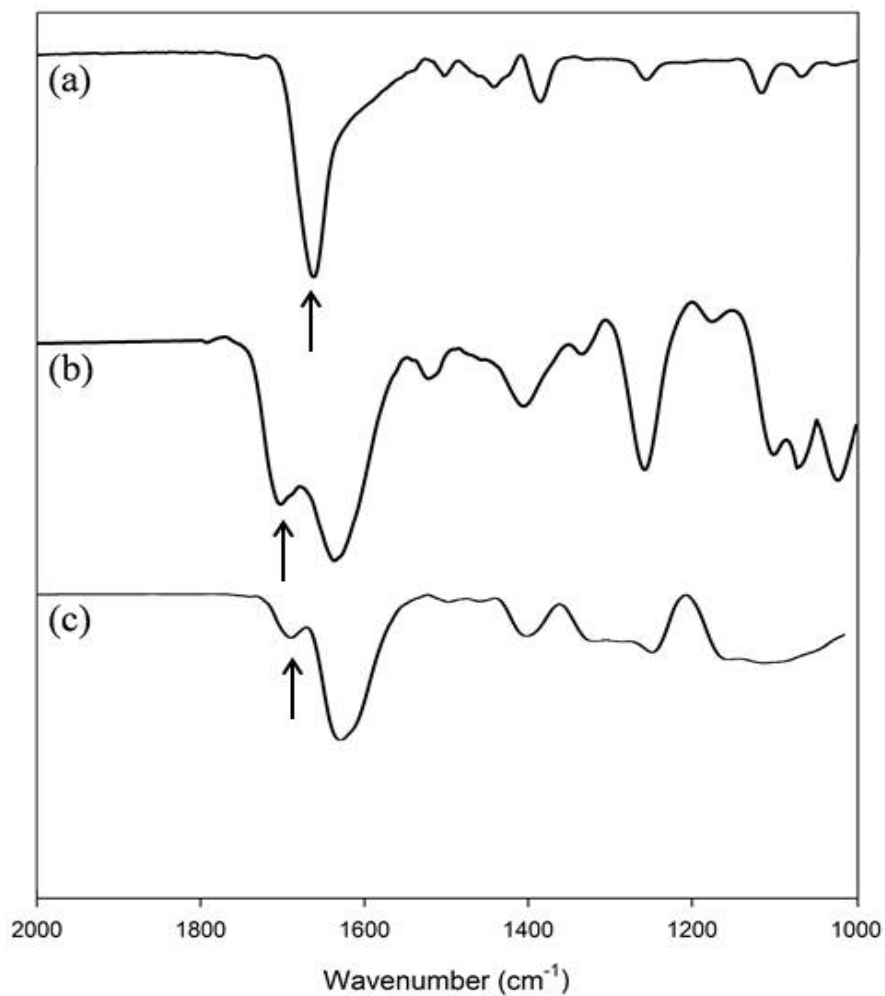


Figure S2. FT-IR spectra of (a)GO/BuMgCl, (b)GO/BuMgCl/DIBP and (c)GO/BuMgCl/DIBP/TiCl₄.

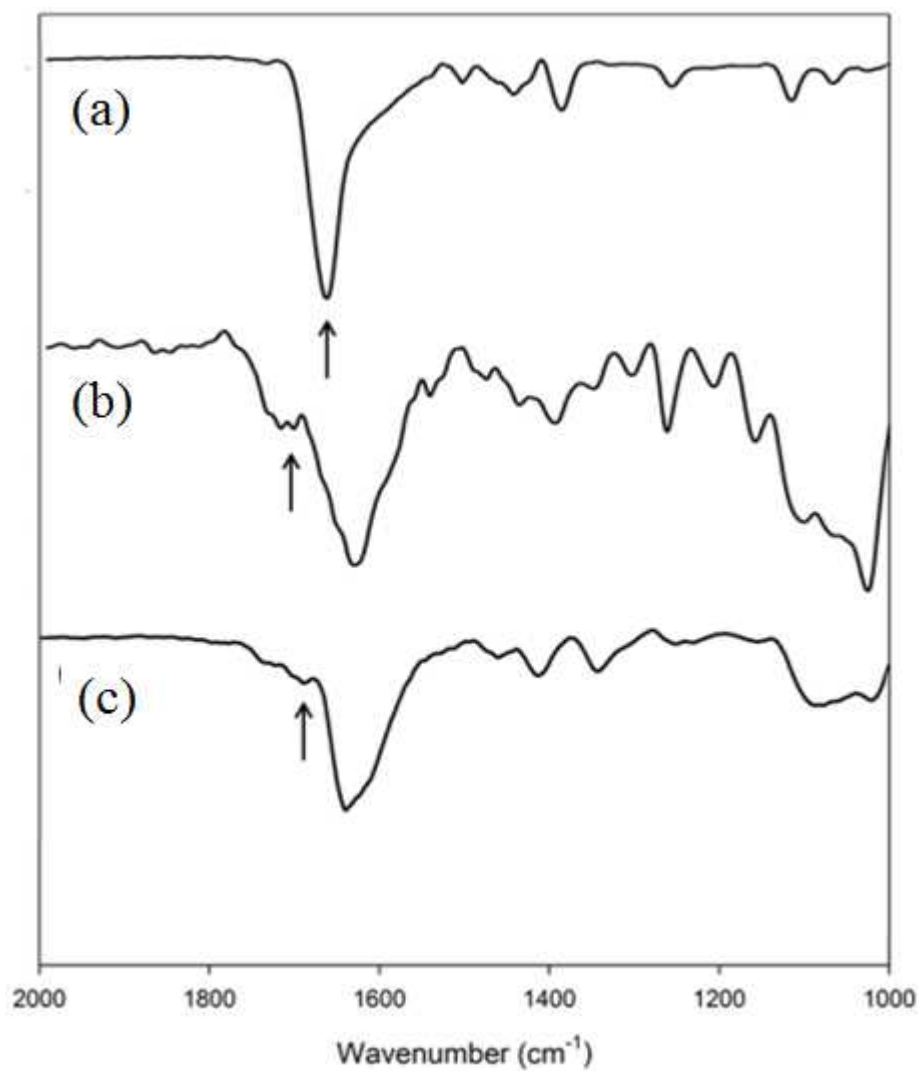


Figure S3. FT-IR spectra of (a)GO/BuMgCl, (b)GO/BuMgCl/DS and (c)GO/BuMgCl/DS/TiCl₄.



Figure S4. PP/rGO masterbatch