

Supporting Information

Bis-ammonium immobilized polystyrenes with co-catalyzing functional end groups as efficient and reusable heterogeneous catalysts for synthesis of cyclic carbonate from CO₂ and epoxides

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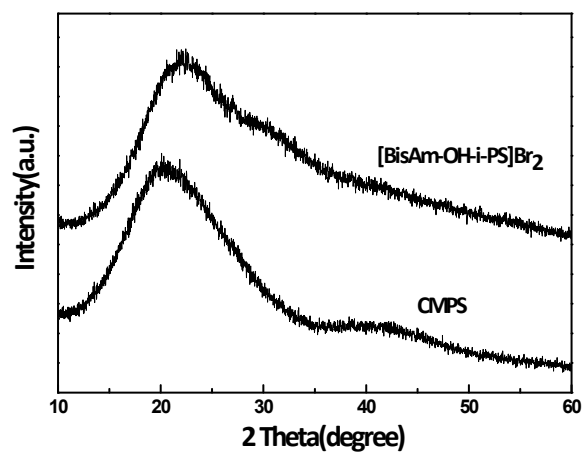
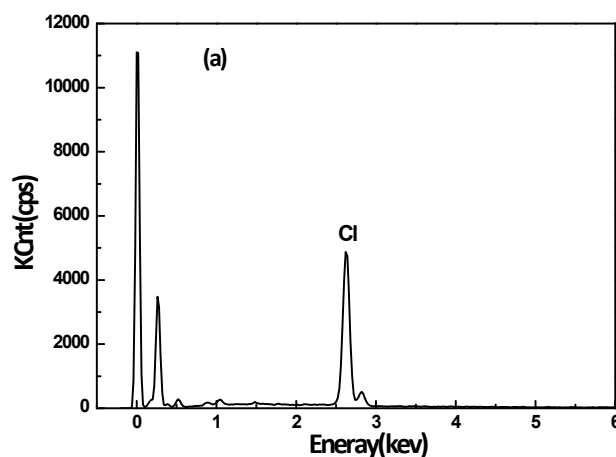


Fig. S1 XRD patterns of [BisAm-OH-i-PS]Br₂ and CMPS



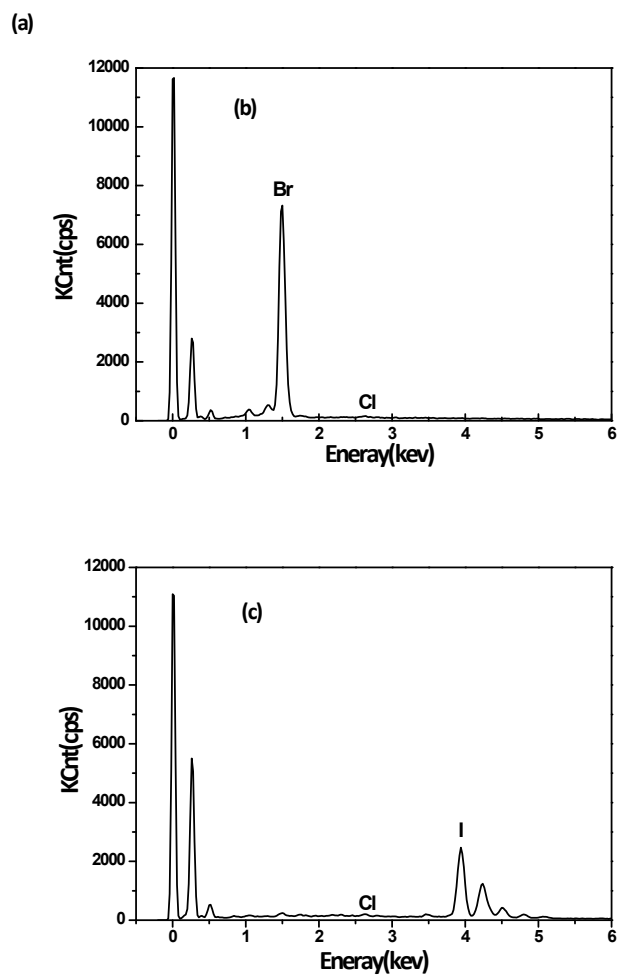


Fig. S2 EDS spectra of (a) [BisAm-OH-i-PS]Cl₂, (b) [BisAm-OH-i-PS]Br₂ and (c) [BisAm-OH-i-PS]I₂

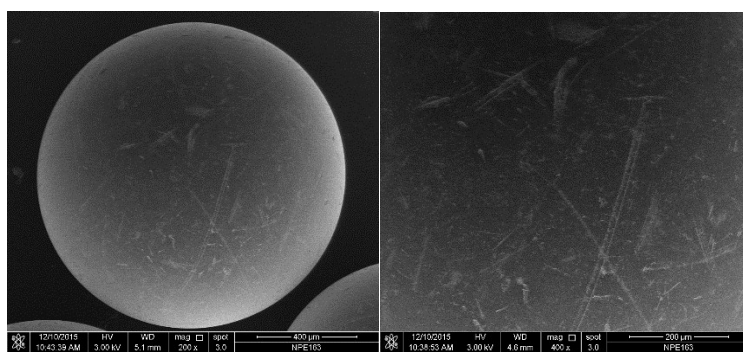


Fig. S3 SEM images of [BisAm-OH-i-PS]Br₂.

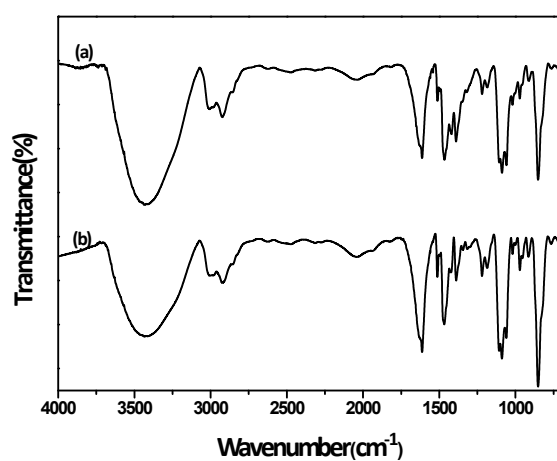


Fig. S4 FT-IR spectra of [BisAm-OH-i-PS]Br₂: (a) fresh, (b) recovered.

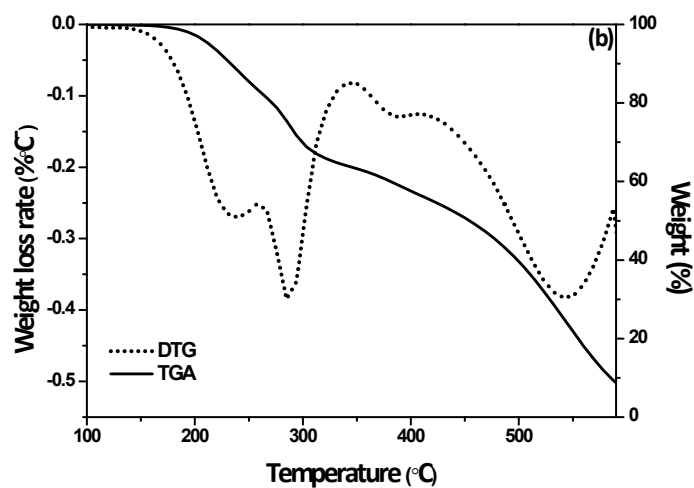
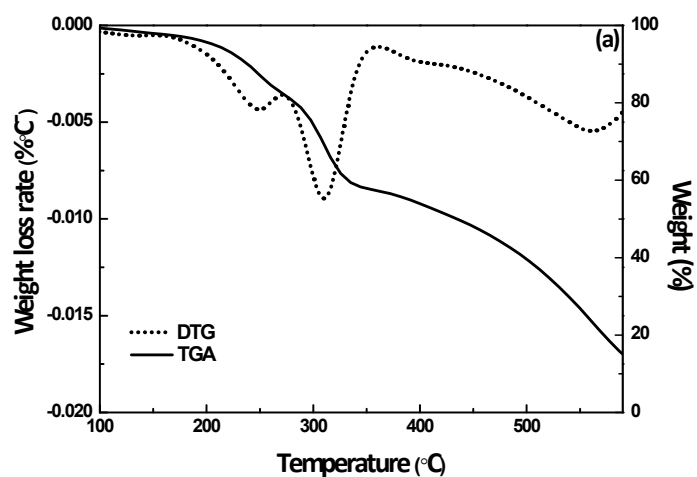


Fig. S5 TGA and DTG curves of [BisAm-OH-i-PS]Br₂: (a) fresh, (b) recovered.