

Supplementary Information

Formation of Mixed-Ligand Zinc(II) Complex Montmorillonite Hybrids by Solid-Solid Reactions

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Fig. S1 TG-DTA curves of 8-hydroxyquinoline (a, e), 2,2'-bipyridine (b, f), 1,10-phenanthroline (c, g) and Zn(II)-montmorillonite (d, h)

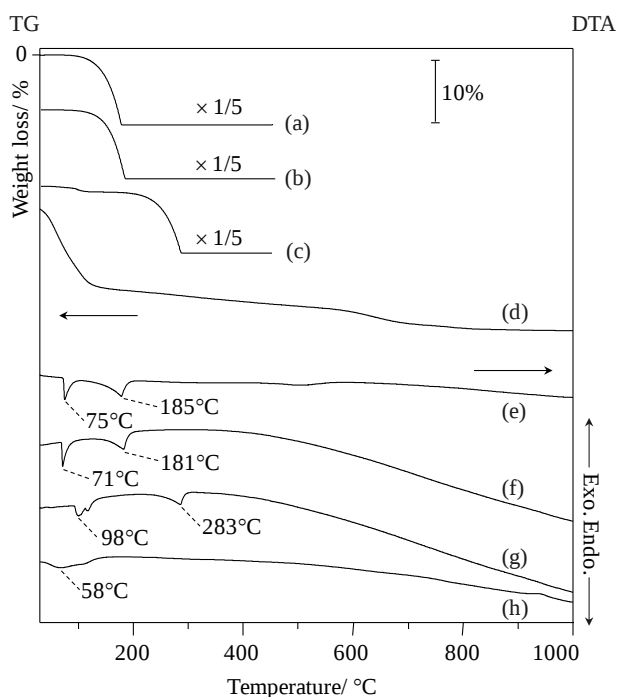


Fig. S2 TG-DTA curves of Znqp-montmorillonite (a, d), Znqb-montmorillonite (b, e) and Znq-montmorillonite (c, f).

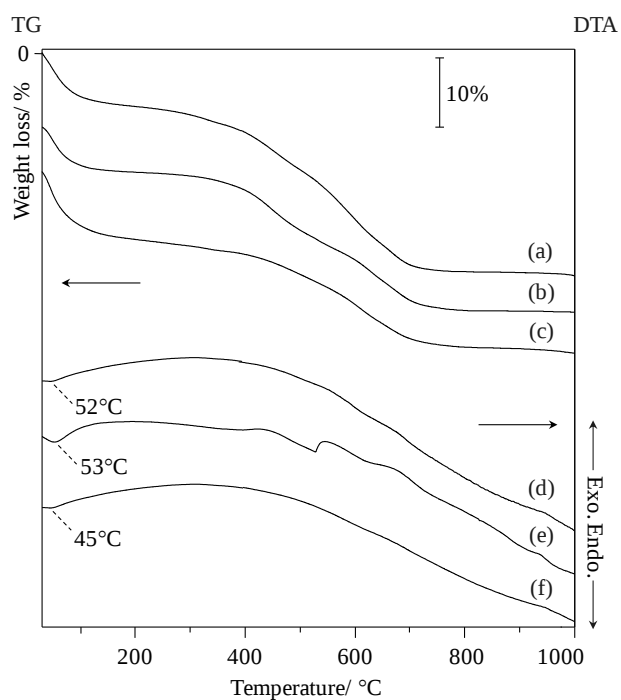


Table S1. Wavenumbers (cm⁻¹) of infrared bands of the products and their assignments

Assignment	Znq- montmorillonite	Znqb-montmorillonite	Znqp- montmorillonite
Ring stretching ^{q, p}	1635	-	1630
Ring stretching ^b	-	1606	-
Ring stretching ^{q, b, p}	1576	1576	1576
Ring stretching ^p	-	-	1523
Ring stretching ^{q, p}	1501	1497	1498
Ring stretching ^{q, p}	1468	1464	1465
Ring stretching ^b	-	1444	-
Ring stretching ^p	-	-	1428
Ring stretching + CH bending ^{q, b, p}	1390	1383	1382
Ring stretching + CH bending ^b	-	1347	-
Ring stretching + CH bending ^{q, b}	1323	1325	1326
Ring stretching + CH bending ^{q, b}	1273	1281	1270
Ring stretching + CH bending ^p	-	-	1244
Ring stretching			

+ CH bending ^p	-	-	1223
C–O stretching			
+ CH bending ^q	1044	1042	1045
CH bending ^{q, b, p}	915	916	920
CH bending ^p	-	-	870
CH bending ^q	842	847	848
CH bending ^q	820	823	822
CH bending ^q	801	801	803
CH bending ^q	794	794	-
CH bending ^{b, p}	-	770	782
CH bending ^p	-	-	760
CH bending ^q	757	-	-
CH bending ^{q, p}	735	731	726
CH bending ^p	-	-	706
CH wag ^q	691	681	684
CH wag ^{q, b, p}	624	621	626
CH wag ^p	-	-	605
CH wag ^p	-	-	580
CH wag ^q	523	521	523
CH wag ^q	468	466	466

^q 8-hydroxyquinoline; ^b 2,2'-bipyridine; ^p 1,10-phenanthroline