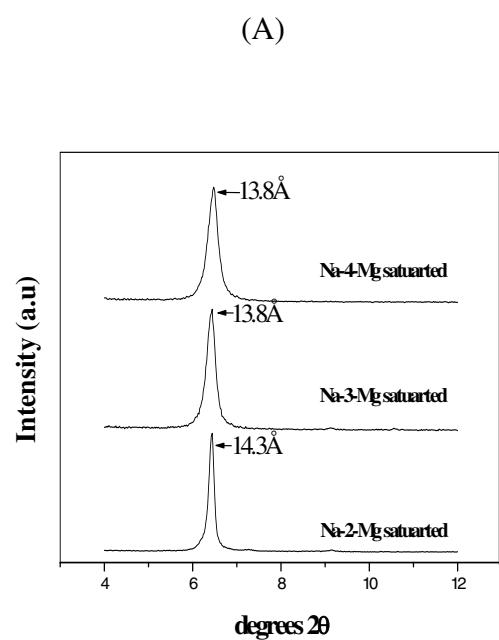
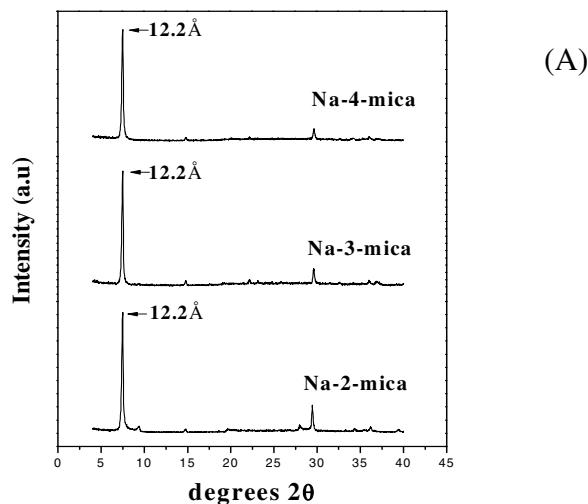
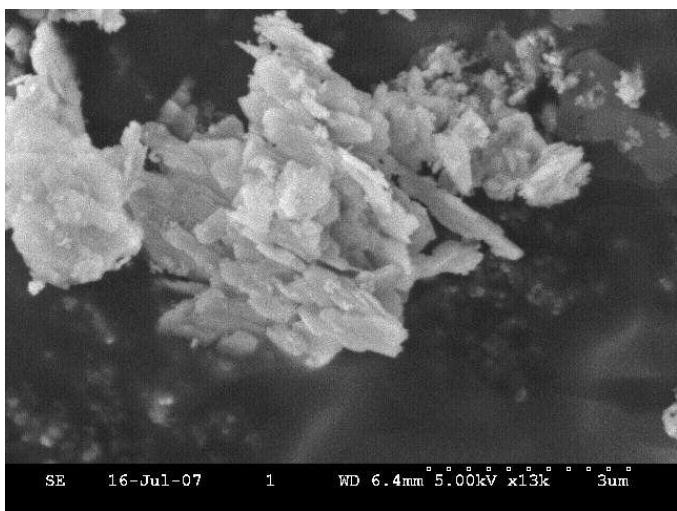


Supporting Information Available

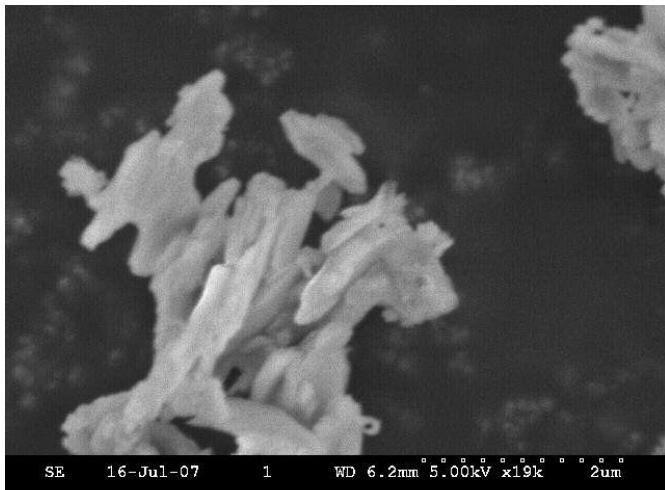


(B)

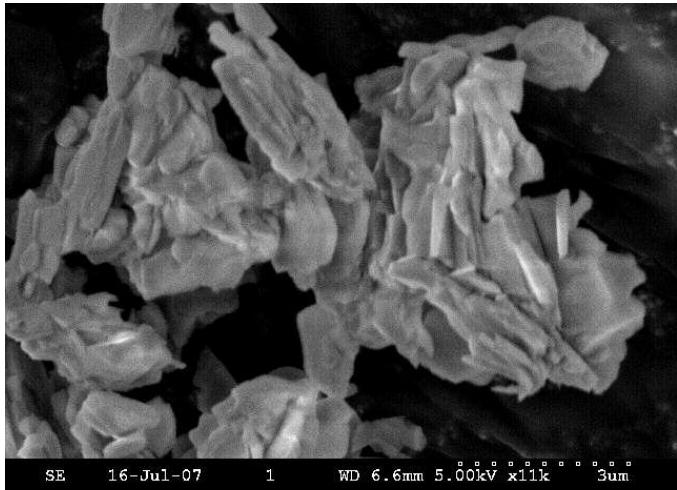
Figure S1. Powder X-ray diffraction patterns of (A) Na-saturated micas and (B) Mg-saturated micas.



Na-4-mica (**Sample 159**)



Na-3-mica (**Sample 156**)



Na-2-mica (**Sample 162**)

Figure S2. Scanning electron micrographs of Na-4-mica, Na-3-mica and Na-2-mica showing particle size and shape.

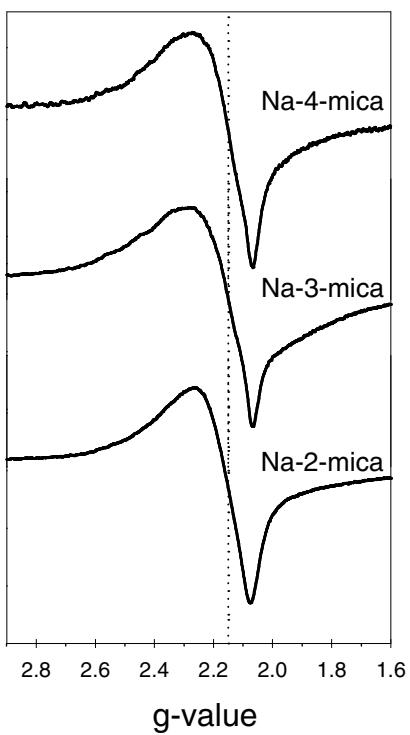


Figure S3. Cu-EPR spectra of Cu-exchanged (0.5 M CuCl₂) Mg-saturated Na-4-mica, Na-3-mica and Na-2-mica. The dotted line indicate the isotropic signal with g = 2.15. Variable ordinate scales are used in the plots.

S4. Table 1. Cu retained (% by weight) by Mg-saturated mica-type clays at three Cu:Mg ratios

Cu:Mg ratio	Mg-saturated synthetic mica-type clay		
	Na-4-mica	Na-3-mica	Na-2-mica
1:0	3.4	2.2	5.7
0.6:0.4	2.6	1.6	3.9
0.1:0.9	1.5	0.95	0.70