Supplemental Information

Synthesis of Layered Double Hydroxide Single-Layer Nanosheets in Formamide

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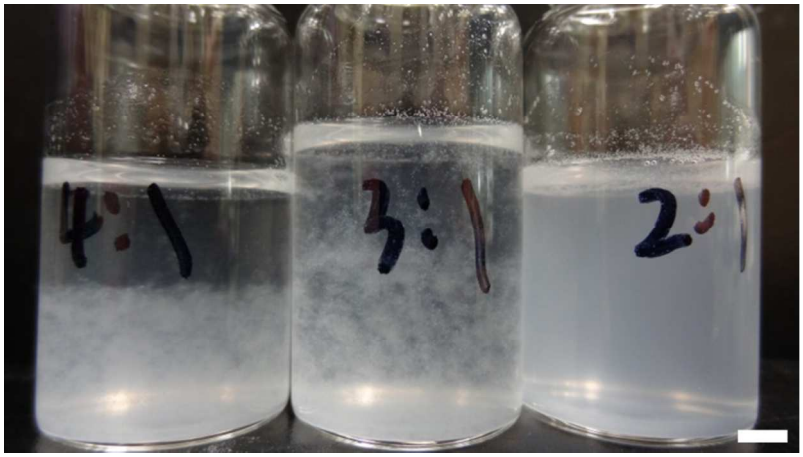

Figure S1. MgAl-LDH synthesized and washed in 2.0 vol % formamide after 1 hour of standing still. The labels denote the Mg/Al molar ratio of 4:1, 3:1, and 2:1 in the initial formulation. The scale bar is 0.5 cm.

Table S1. Mg/Al ratio in the samples prepared under various volumetric ratios of formamide.

Sample	Mg content (µg/g)	Al content (µg/g)	Mg/Al atomic ratio	Layer charge (x^+) (mol/g)
Mg2Al-LDH 0 v%	196571	103830	2.10	0.322
Mg2Al-LDH 2.0 vol %	187912	115962	1.80	0.357
Mg2Al-LDH 5.0 vol %	183505	115893	1.76	0.363
Mg2Al-LDH 15.0 vol %	162967	120673	1.50	0.400
Mg2Al-LDH 30.0 vol %	161100	130620	1.37	0.422
Mg3Al-LDH 0 vol %	210665	84569	2.76	0.266
Mg3Al-LDH 2.0 vol %	213553	89566	2.65	0.274
Mg3Al-LDH 5.0 vol %	222300	94260	2.62	0.276
Mg3Al-LDH 15.0 vol %	206289	88365	2.59	0.278
Mg3Al-LDH 30.0 vol %	203965	92198	2.46	0.289
Mg4Al-LDH 0 vol %	239967	63352	3.61	0.192
Mg4Al-LDH 2.0 vol %	224656	75103	3.32	0.231
Mg4Al-LDH 5.0 vol %	220568	73773	3.32	0.231
Mg4Al-LDH 15.0 vol %	216922	72193	3.33	0.231
Mg4Al-LDH 30.0 vol %	218917	73341	3.31	0.232