

Table S1. The mass balance of delaminated iron-based LDH during the preparation.

Items	Values	Items	Values
Total mass of delaminated LDH after freeze drying	7.268 g		
Amount of Mg added for preparation	1.44 g	Amount of Fe added for preparation	1.12 g
Percentage of Mg content in delaminated LDH obtained by digestion	17.77%	Percentage of Fe content in delaminated LDH obtained by digestion	13.90%
Amount of Mg in delaminated LDH after freeze drying	1.292 g	Amount of Fe in delaminated LDH after freeze drying	1.010 g
Recovery of Mg in the preparation of delaminated LDH	89.71%	Recovery of Fe in the preparation of delaminated LDH	90.18%