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Environmental friendly method for efficiently recycling $LiMn_2O_4$ Cathode Material

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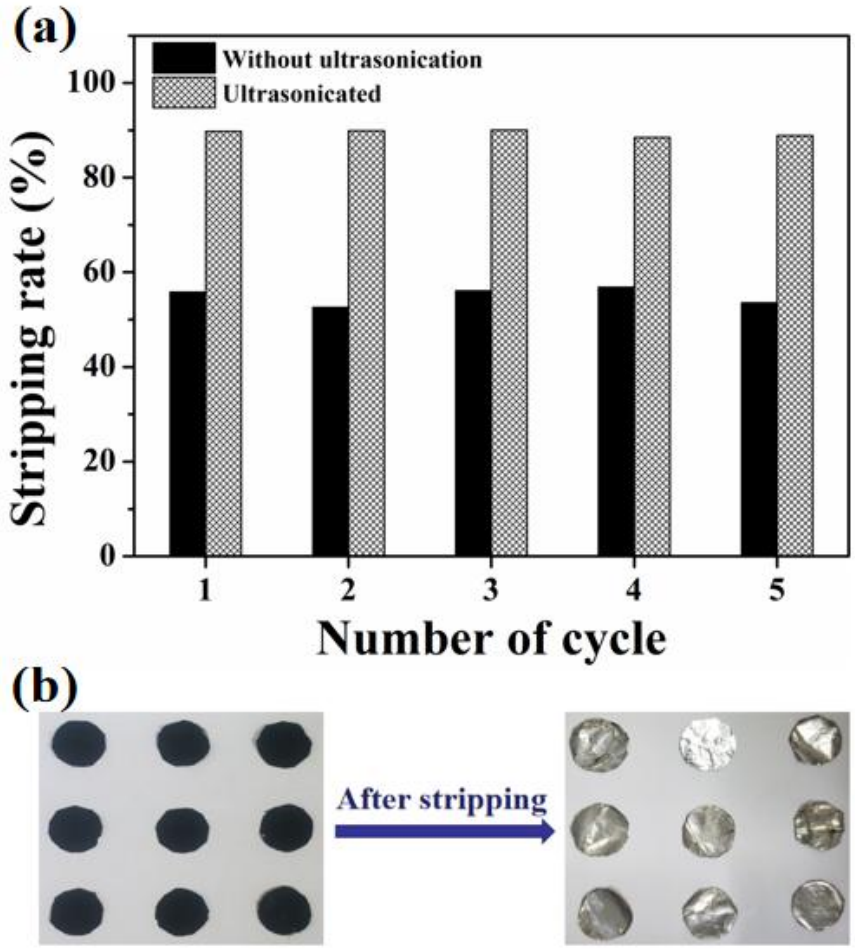

Fig. S1 (a) Stripping results of S-LMO materials under the ideal conditions, and (b) optical photos before and after stripping

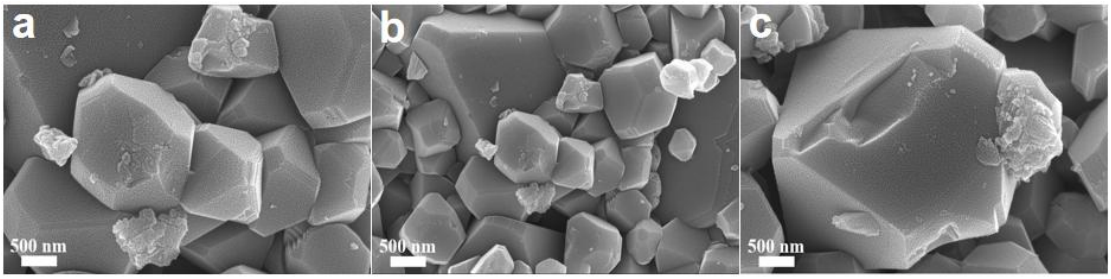

Fig. S2 SEM images of the spent cathode materials after calcination at 800 °C for 10, 12, and 14 h respectively

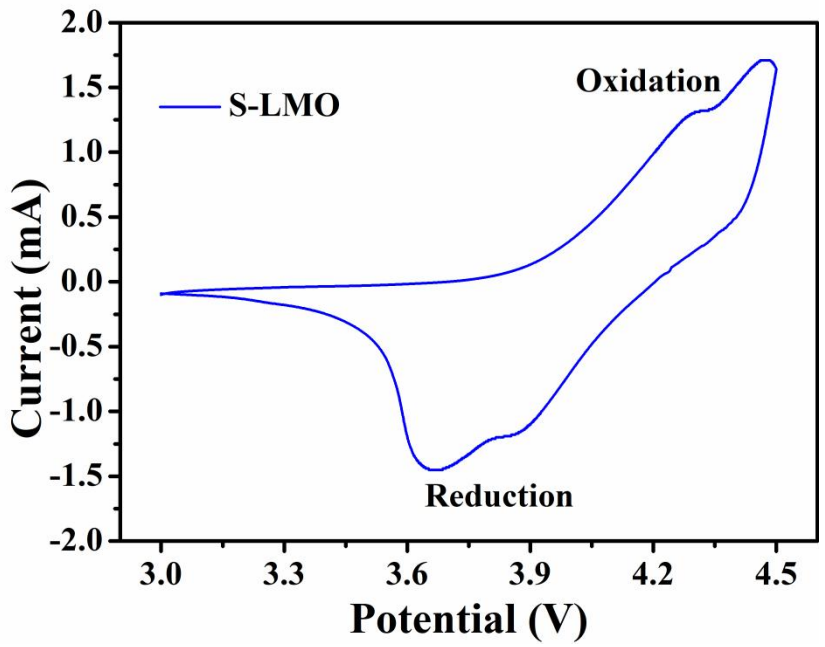

Fig. S3 Cyclic voltammetry curves of S-LMO

Tab. S1 AC impedance parameters of different samples

Samples	Rct (Ω)	Wo (Ω)	CPE	D_{Li^+} (10^{-12} cm^2/s)
700 °C-12 h	188.6	19.91	6.91×10^{-6}	4.97
800 °C-12 h	156	52.7	1.32×10^{-5}	9.03
900 °C-12 h	384.6	17.14	8.69×10^{-6}	0.12

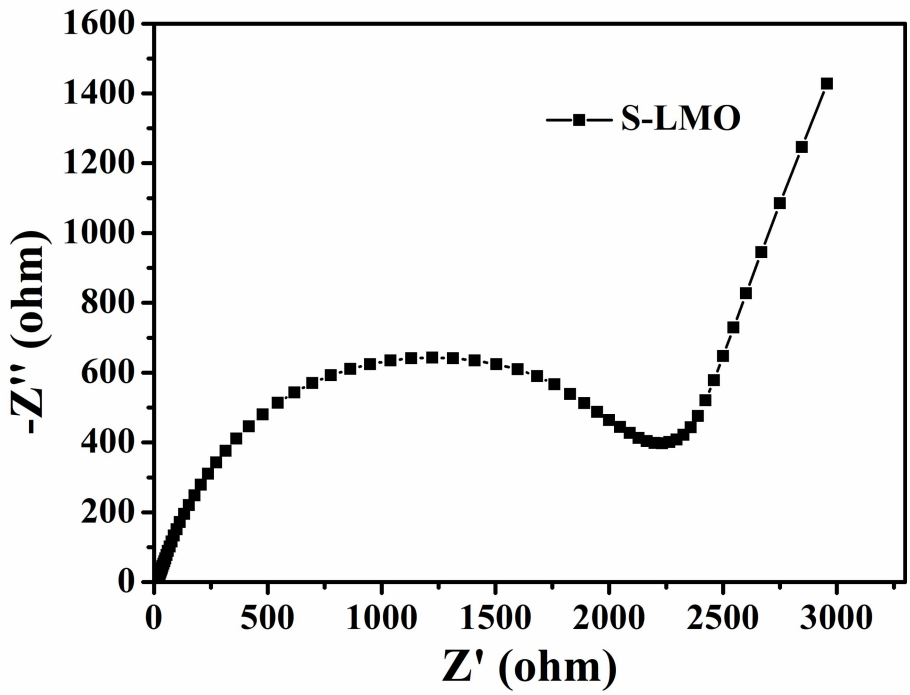

Fig. S4 EIS profiles of S-LMO