

Journal of the Electrochemical Society Publishes Paper Describing American Manganese's Patented Lithium-ion Battery Cathode Recycling Process

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SURREY, January 6, 2021 - [American Manganese Inc.](#) (TSXV:AMY)(OTC PINK:AMYZF)(FRA:2AM) ("AMY" or the "Company") is pleased to announce that the detailed technical paper, 'Experimental Study on Recycling of Spent Lithium-Ion Battery Cathode Materials' has been submitted, reviewed, and published in the Journal of the Electrochemical Society (JES). The JES is a peer-reviewed journal established in 1902 and is one of the most highly cited journals in electrochemistry and solid state science and technology. The abstract can be viewed in the following link: [Experimental Study on Recycling of Spent Lithium-Ion Battery Cathode Materials - IOPscience](#).

The publication describes experimental work leading to the Company's patented RecycLiCo™ process (US Patent No. 10,246,343 and PCT International Publication No. WO2018089595A1) for the recycling of valuable and critical metals from spent lithium-ion battery cathode materials. Included in the publication is lab-scale testing of NMC (lithium nickel manganese cobalt oxide), NCA (lithium nickel cobalt aluminum oxide), LMO (lithium manganese oxide), and LCO (lithium cobalt oxide) cathode materials. Key details demonstrate over 99% extraction of lithium, nickel, cobalt, and manganese and an environmentally friendlier closed-loop hydrometallurgical process that minimizes environmental impacts of recycling lithium-ion battery cathode materials.

"We are thrilled that a highly cited and respected peer-reviewed scientific journal like JES reviewed and published the findings of our research in lithium-ion battery cathode material recycling," said Larry Reaugh, President and CEO of American Manganese. "This shows that the work we had undertaken to develop the RecycLiCo process is able to pass the scrutiny of people with expertise in this field."

About American Manganese Inc.

[American Manganese Inc.](#) is a critical metals company focused on recycling of lithium-ion batteries (RecycLiCo™) and the production of electrolytic manganese metal from low grade U.S. resources. The recycling process provides high extraction of cathode metals, such as lithium, cobalt, nickel, manganese, and aluminum at high purity, with minimal processing steps. American Manganese Inc. aims to commercialize its breakthrough RecycLiCo™ patented process and become an industry leader in recycling cathode materials from lithium-ion battery manufacturing waste.

On behalf of Management
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