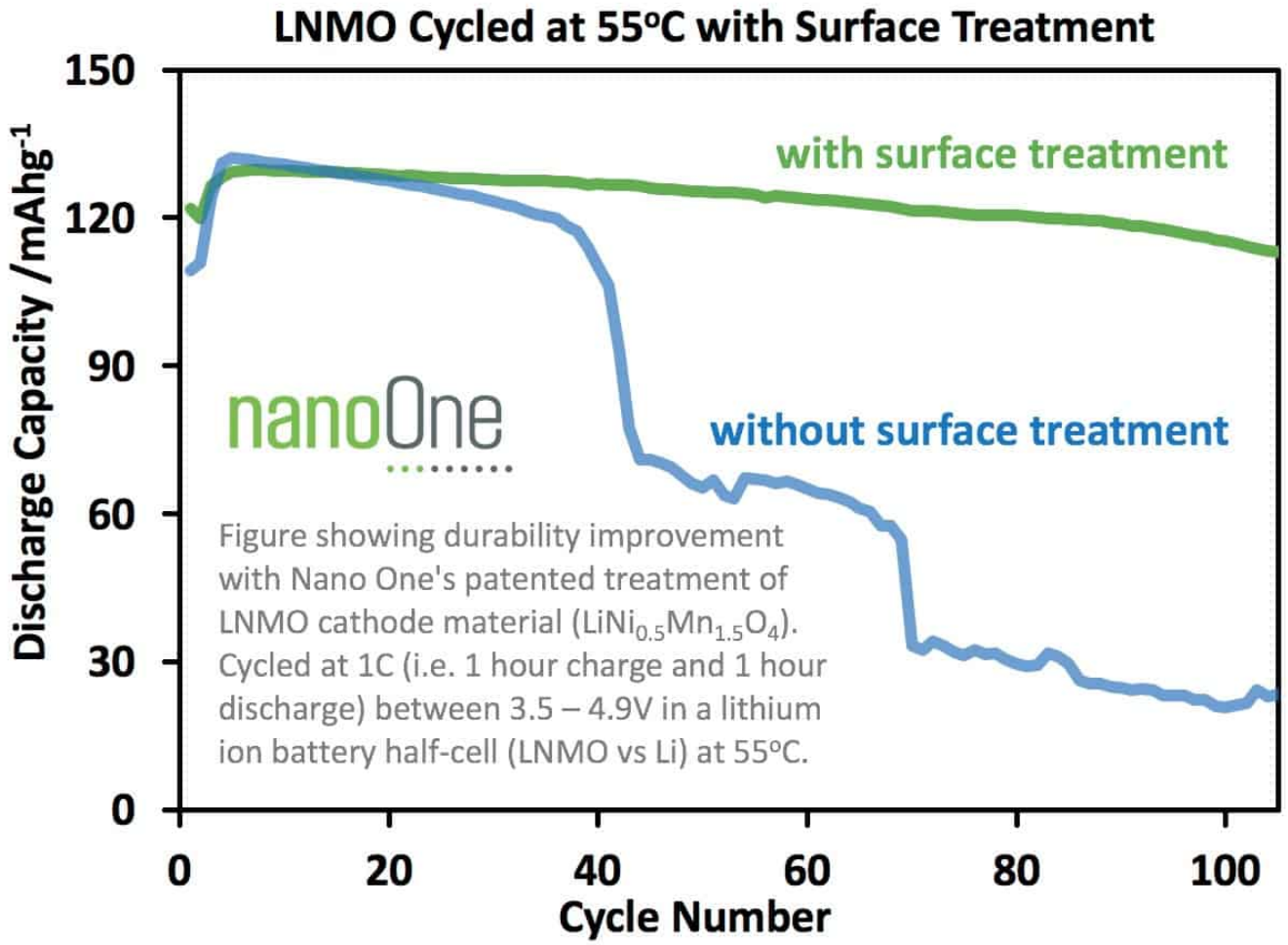
Nano One Patents a New Durable Cobalt-Free Battery Material

written by Raj Shah | January 6, 2020

January 6, 2020 (Source) – Dr. Stephen Campbell, Chief Technology Officer at Nano One™ **(TSXV: NNO) (OTC Pink: NNOMF) (FSE: LBMB)** is pleased to announce the issuance of Taiwanese patent number I672852 relating to lithium nickel manganese oxide (LNMO) cathode material, also known as *high voltage spinel (HVS)*. In addition to the increased durability shown below [Figure 1], Nano One's LNMO also eliminates cobalt from the battery, thereby addressing the ethical and supply chain issues related to artisanal cobalt mining in Africa for use in lithium ion batteries.



Dr. Campbell said, *"This addition to Nano One's patent portfolio is an important, low cost durability improvement to LNMO. This material operates at high voltage with fast rates of charge and discharge, compared to other cathode materials. Our technology treats the surface of the discrete cathode crystals and it mitigates instabilities common to spinels including LNMO and enables elevated operating temperatures that are typical in electric vehicle batteries."*

This represents the sixteenth patent in Nano One's IP portfolio which extends to the U.S., Canada, China, Japan, Korea and Taiwan.

Nano One Materials Corp.

Dan Blondal, CEO

About Nano One

Nano One Materials Corp has developed patented technology for the low-cost production of high performance lithium ion battery cathode materials used in electric vehicles, energy storage and consumer electronics. The processing technology enables lower cost feedstocks, simplifies production and advances performance for a wide range of cathode materials. Nano One has built a demonstration pilot plant and is partnering with global leaders in the lithium ion battery supply chain, including Pulead, Volkswagen and Saint-Gobain to advance its lithium iron phosphate (LFP), lithium nickel manganese cobalt oxide (NMC) and lithium nickel manganese oxide (LNM) cathode technologies for large growth opportunities in e-mobility and renewable energy storage applications.

Nano One's pilot and partnership activities are being funded with the assistance and support of the Government of Canada through Sustainable Development Technology Canada (SDTC) and the Automotive Supplier Innovation Program (ASIP) a program of Innovation, Science and Economic Development Canada (ISED). Nano One also receives financial support from the National Research Council of Canada Industrial Research Assistance Program (NRC-IRAP). Nano One's mission is to establish its patented technology as a leading platform for the global production of a new generation of battery materials. **www.nanoone.ca**

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‘believe’, ‘expect’, ‘anticipate’, ‘plan’, ‘intend’, ‘continue’, ‘estimate’, ‘may’, ‘will’, ‘should’, ‘ongoing’, or variations of such words and phrases or statements that certain actions, events or results “will” occur. Forward-looking statements are based on the opinions and estimates of management as of the date such statements are made and they are subject to known and unknown risks, uncertainties and other factors that may cause the actual results, level of activity, performance or achievements of the Company to be materially different from those expressed or implied by such forward-looking statements or forward-looking information, including: the ability of the Company to obtain additional financing; including the receipt of grant monies from SDTC, ASIP, NRC-IRAP and the receipt of all necessary regulatory approvals. Although management of the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking statements or forward-looking information, there may be other factors that cause results not to be as anticipated, estimated or intended. There can be no assurance that such statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking statements and forward-looking information. The Company does not undertake to update any forward-looking statements or forward-looking information that is incorporated by reference herein, except as required by applicable securities laws.

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