

NEWS RELEASE

Recent Innovation by Nano One Improves Battery Life

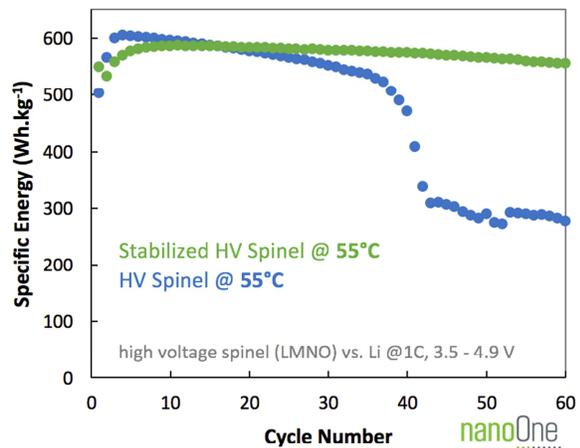
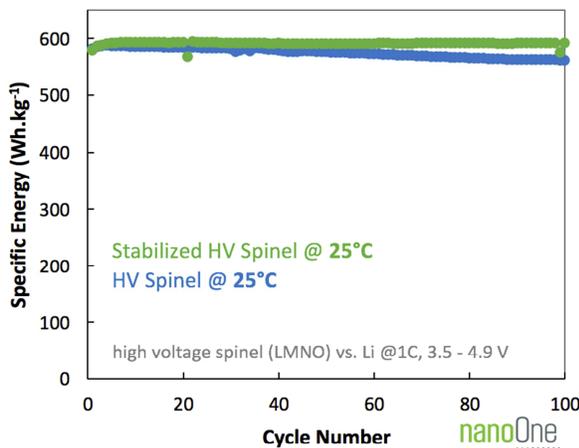
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December 05 2017

Vancouver, B.C.: Dr. Stephen Campbell, Principal Scientist at Nano One, announced today that Nano One has developed technology that stabilizes lithium metal oxides for use in advanced lithium ion batteries and has filed a patent related to this stabilization technique.

This innovation alleviates degradation mechanisms that cause energy stored in lithium ion batteries to fade with each charge cycle. The improvements are most dramatic at higher operating temperatures, such as those seen in electric vehicles and could significantly increase the durability and the number of times that a battery can be recharged over its lifetime.

“The technology applies to lithium mixed metal cathode materials containing manganese and is particularly advantageous with Nano One’s high voltage, cobalt-free, spinels” explained Dr. Campbell. *“We believe this significantly improves durability and could play a prominent role in advanced lithium ion batteries and solid state technologies being developed globally for automotive, energy storage and consumer electronics. This technology is already generating considerable interest and Nano One is pursuing a number of related opportunities.”*



Charts showing the impact of Nano One’s stabilization technology at 25°C and 55°C. The effect is more dramatic at higher operating temperatures.

Nano One continues to innovate in the lithium ion battery space and with this patent filing, adds significantly to their portfolio of knowhow and intellectual property.

Nano One Materials Corp.

Dan Blondal, CEO

For information with respect to Nano One or the contents of this news release, please contact John Lando (President) at (604) 669-2701 or visit the website at www.nanoone.ca.

About Nano One:

Nano One Materials Corp (“Nano One” or “the Company”) is developing patented technology for the low-cost production of high performance battery materials used in electric vehicles, energy storage, consumer electronics and next generation batteries. The processing technology addresses fundamental supply chain constraints by enabling wider raw materials specifications for use in lithium ion batteries. The process can be configured for a range of different nanostructured materials and has the flexibility to shift with emerging and future battery market trends and a diverse range of other growth opportunities. The novel three-stage process uses equipment common to industry and Nano One has built a pilot plant to demonstrate high volume production and to optimize its technology across a range of materials. This pilot plant program is 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 nanostructured composite materials. For more information, please visit www.nanoone.ca

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