

Nano One Materials Corp.

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Nano One Materials piques global interest after making strides in battery durability

Nano One Materials Corp (CVE:NNO) (OTCMKTS:NNOMF) said Monday that its latest battery durability improvements engineered with the help of its patented, coated nanocrystal innovations had piqued the interest of global car makers.

In a statement, the Burnaby, British Columbia, company said its coated nanocrystal innovation enhanced the "durability and cost of lithium-ion battery cathode materials" and was spurring "added opportunities" with global automotive manufacturers and suppliers.

Last August, Nano One achieved advances to its lithium nickel manganese cobalt (NMC) cathodes aimed at making high-energy lithium-ion batteries safer and more durable by protecting them from the stresses of repeated charging.

READ: Nano One advancing plans to make high-energy lithium ion batteries safer, more durable

The automotive battery industry is actively pursuing higher nickel content in lithium-ion batteries because it can boost energy density and thereby extend vehicle range while reducing the cobalt content. However, the trade-off is an increased risk to a battery's stability, durability and safety. To mitigate these problems, Nano One's technology seeks to protect each nanoparticle rather than larger clusters.

Nano One's latest innovations make NMC materials with a protective coating in fewer steps and from discrete single crystals instead of massive clusters and this prevents cracking and degradation due to repeated charging. It thereby increases the durability of cathode materials, which paves the way for the development of a new generation of battery materials.

"Tesla's research provides evidence that batteries made with single crystal cathodes can last an order of magnitude longer than conventional composite cathode structures in battery cycle testing," Nano One CEO Dan Blondal said in a statement.

"These results help to substantiate Nano One's technology advantage and have spawned a great deal of interest in our coated nanocrystal innovation which produces our patented single crystal cathode powders," he added.

Blondal said this has generated "a measurable increase" in strategic level discussions and forms the basis of current relationships with several automotive players and chemical companies.

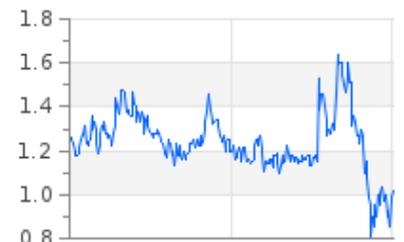
"We are working hard to add these developing relationships to our existing list of joint development partnerships," said Blondal.

Nano One's coated nanocrystal innovation has made the battery and car industry sit up, as increased durability would provide electric vehicle makers greater flexibility in optimizing range, charging rates, safety and cost.

Price: 1.02

Market Cap: \$78.29 m

1 Year Share Price Graph



April 2019 October 2019 April 2020

Share Information

Code: NNO

Listing: TSX-V

52 week	High	Low
	1.69	0.75

Sector: Battery Metals

Website: nanoone.ca

Company Synopsis:

Nano One is a technology company with a patented and scalable industrial process for the production of low cost, high performance cathode powders used in lithium ion batteries. These unique materials are being designed to add value to electric vehicles and grid storage batteries in the global push for a zero-emission future.

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"Increased durability also enables the reduction of cobalt in batteries to address cost, supply, and ethical issues," noted the company.

Each of Nano One's cathode technologies — lithium iron phosphate (LFP); nickel manganese cobalt oxide (NMC); and high voltage spinel (HVS or LNMO) — form coated nanocrystals with a range of benefits and applications.

"The automotive industry is increasingly committed to an electric vehicle transition, and Nano One is well positioned with its coated nanocrystal innovation to leverage the need for increased durability, stability and energy density," said Blondal.

Nano One is able to control the formation of its patented NMC materials using innovative manufacturing technologies, which are also protected by patents in the US, Canada, Taiwan, China, Japan and Korea.

The Canadian firm has developed patented technology for producing low-cost, high-performance battery materials and a wide range of other advanced nanostructured composites used in electric vehicles, energy storage and consumer electronics.

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