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The lithium-ion battery has evolved as the major power source ever since its discovery in 1991 by Sony and represents one of the major successes of materials electrochemistry. Lithium-ion batteries are becoming more and more popular in view of the multifarious applications arising from their high

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voltage and high power leading to light weight and smaller size cells/batteries.

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Recycling 504 6. Conclusions 506 ...

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Although a commercial success, lithium ion batteries are still the object of intense research mainly aimed to the characterization of improved electrode and electrolyte materials. The recent advances in carbonaceous and

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alternative anodes, in medium and high-voltage cathodes and in liquid and polymer electrolytes are here reviewed and discussed.

Recent advances in lithium ion battery materials ...

Advances in Lithium Ion Batteries Introduction. Walter van Schalkwijk,

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Bruno Scrosati. Pages 1-5. The Role of Surface Films on Electrodes in Li-Ion Batteries. Doron Aurbach. Pages 7-77. Carbon Anodes. Zempachi Ogumi, Minoru Inaba. Pages 79-101. Manganese Vanadates and Molybdates as Anode Materials for Lithium-Ion Batteries.

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Review—Recent Advances and
Remaining Challenges for Lithium Ion
Battery Cathodes Evan M. Erickson 1,3,6
, Florian Schipper 1,3 , Tirupathi Rao
Penki 1 , Ji-Yong Shin 2 , Christoph Erk 2
, Frederick-Francois Chesneau 2 , Boris
Markovsky 1,4 and Doron Aurbach 1,5

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Review—Recent Advances and Remaining Challenges for ...

With the ever-growing need for lithium-ion batteries, particularly from the electric transportation industry, a large amount of lithium-ion batteries is bound to retire in the near future, thereby leading to serious disposal problems and detrimental impacts on environment and

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energy conservation.

Recycling of lithium-ion batteries: Recent advances and ...

A lithium-ion battery or Li-ion battery is a type of rechargeable battery. Lithium-ion batteries are commonly used for portable electronics and electric vehicles and are growing in popularity for military

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and aerospace applications. A prototype Li-ion battery was developed by Akira Yoshino in 1985, based on earlier research by John Goodenough, M. Stanley Whittingham, Rachid Yazami and Koichi ...

Lithium-ion battery - Wikipedia

There is a drawback, however; sodium-

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ion batteries do not hold as much energy as lithium-ion batteries do, and they can also be challenging to recharge. According to the research team, a key challenge for some of the most promising sodium-ion cathode materials is that a layer of inactive sodium crystals accumulates at the cathode's surface, inhibiting the flow of

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sodium ions.

New sodium-ion battery advance could challenge lithium-ion

Advances in Lithium Ion Batteries Teresa
Matich - October 28th, 2015 Nature
published an article looking at recent
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technology, and at current research

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aiming to ...

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reliability. This title acquaints readers with the numerous and often consumer-oriented applications of this widespread battery type.

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introduction that this book is intended for lithium-ion scientists and engineers but they hope it may be of interest to ...

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Z ...

Advances in Lithium-Ion Batteries - ResearchGate

Lithium-ion cells rely on reversible

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insertion of Lithium ions into the structures of cathode and anode active materials. Lithium-ion batteries first appeared in the 1990s. Although the work with lithium batteries began in 1912, it wasn't until the early 1970's that the first commercial non-rechargeable lithium cells became available.

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Advances and challenges of sodium ion batteries as post lithium ion batteries M. Sawicki and L. L. Shaw, RSC Adv., 2015, 5, 53129 DOI: 10.1039/C5RA08321D If you are not the author ...

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