

David pogue solid state battery

Are solid-state batteries with lithium metal anodes a good idea?

No eLetters have been published for this article yet. Science Solid-state batteries with lithium metal anodes have the potential for higher energy density, longer lifetime, wider operating temperature, and increased safety. Although the bulk of the research h...

Are solid-state batteries better than Li-ion batteries?

Solid-state batteries (SSBs) have important potential advantages over traditional Li-ion batteries used in everyday phones and electric vehicles. Among these potential advantages is higher energy density and faster charging.

Do internal stresses and strains affect battery performance?

Although the focus has been on the electrochemical behavior, internal stresses and strains can also substantially alter battery performance and lifetime. Kalnaus et al. reviewed our understanding of the mechanics of solid-state batteries and the effect of having multiple solid-solid interfaces.

Join renowned gadget geek and host David Pogue as he sets out on a quest to discover how batteries work and to uncover what the future has in store for our gadgets, our lives, and even ...

A better understanding of the mechanics of SSB materials will transfer to the development of solid electrolytes, cathodes, anodes, and cell architectures, as well as battery packs designed to ...

In a recent segment on Science Friday, David Pogue, a technology journalist and host of the NOVA documentary "Search for the Super Battery," discussed different options that could replace the lithium-ion battery, ...

What Zimmerman has done is pretty amazing: He's created a battery that eliminates the liquid. In its place: A special plastic film, solid and not flammable.

From lithium-ion to flow batteries, host David Pogue delves into innovations in energy storage that could help power a greener future. Watch trailers & learn more.

Pogue tests out the safety of the slim new battery created by Tufts University professor and materials scientist, Mike Zimmerman in the "Safer Batteries" segment.

Watch Tufts University and engineer Mike Zimmerman's battery endure abuse at the hands of David Pogue in this excerpt from NOVA's "Search for the Super Battery," airing ...

Host David Pogue sets out on a quest to discover what the future has in store for our gadgets and visits



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scientists, inventors and entrepreneurs who are challenging everything we think we know ...

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