John b goodenough solid state battery

Who was John Bannister Goodenough?
John Bannister Goodenough,groundbreaking materials scientist,died on 25 June at the age of 100. John made seminal contributions to solid-state chemistry,physics,and engineering. In 2019,he shared the Nobel Prize in Chemistry for the development of lithium-ion batteries.

What is John Goodenough best known for?
Credit: University of Texas at Austin via Sipa US/Alamy John Goodenough is best known for his 1980 invention of the rechargeable lithium battery,which is used in myriad devices,from electric cars to mobile phones,and holds the key to decarbonizing the world's energy system.

Is a lithium ion battery better than a solid-state battery?
Braga and Goodenough stated they expect the battery to have an energy density many times higher than current lithium-ion batteries, as well as an operating temperature range down to -20 °C (-4 °F); much lower than current solid-state batteries. The electrolyte is also stated to have a wide electrochemical window.

Goodenough"s latest breakthrough, completed with Cockrell School senior research fellow Maria Helena Braga, is a low-cost all-solid-state battery that is noncombustible and has a long cycle life (battery life) with a high volumetric ...

And where does that leave us? Has Goodenough actually created the next revolution in battery technology? Some of the claims in his latest research paper are ...

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In the 1950s and 1960s, Goodenough was a leader in the development of the first solid-state random access memory (RAM) devices for computers.

The fundamental approach of John B. Goodenough to Solid State Chemistry, leading particularly to lithium battery applications, is at the heart of the 2019 Nobel Prize awarded to John.

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In 2016, a glass battery was developed by John B. Goodenough, inventor of the lithium cobalt oxide and lithium iron phosphate electrode materials used in the lithium-ion battery (Li-ion), ...

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Thirty-seven years after co-inventing the technical breakthrough that made lithium-ion batteries commercially viable, the 94-year old engineering professor has developed a solid-state battery he thinks will solve the high cost and low ...

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