

Eng et al., ci. Adv. 8, eabm2422 2022 11 May 2022 SCIENCE ADVANCES| REVIEW 1 of 17 MATERIALS SCIENCE Theory-guided experimental design in battery materials research Alex Yong Sheng Eng<sup>1+</sup>, Chhail Bihari Soni<sup>2+</sup>, Yanwei Lum<sup>1</sup>, Edwin Khoo<sup>3</sup>, Zhenpeng Yao<sup>4</sup>, S. K. Vineeth<sup>2</sup>, Vipin Kumar<sup>2</sup>, Jun Lu<sup>5\*</sup>, Christopher S. Johnson<sup>5\*</sup>, Christopher ...

The figure shows the real average decline in the battery pack and cell prices for lithium-ion batteries from 2013-2021. Prices are split between the cell and pack components.

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In battery research, development, and manufacturing, imaging techniques such as scanning electron

microscopy (SEM), DualBeam (also called focused ion beam scanning electron microscopy or FIB-SEM), and transmission electron microscopy (TEM) are used primarily to study the structure and chemistry of battery materials and cells in 2D and 3D ...

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