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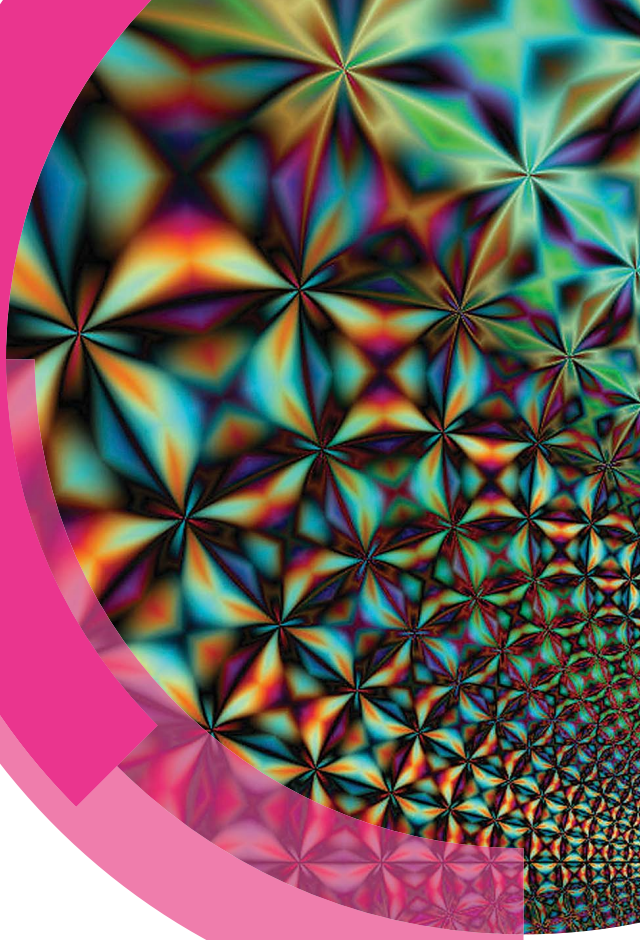

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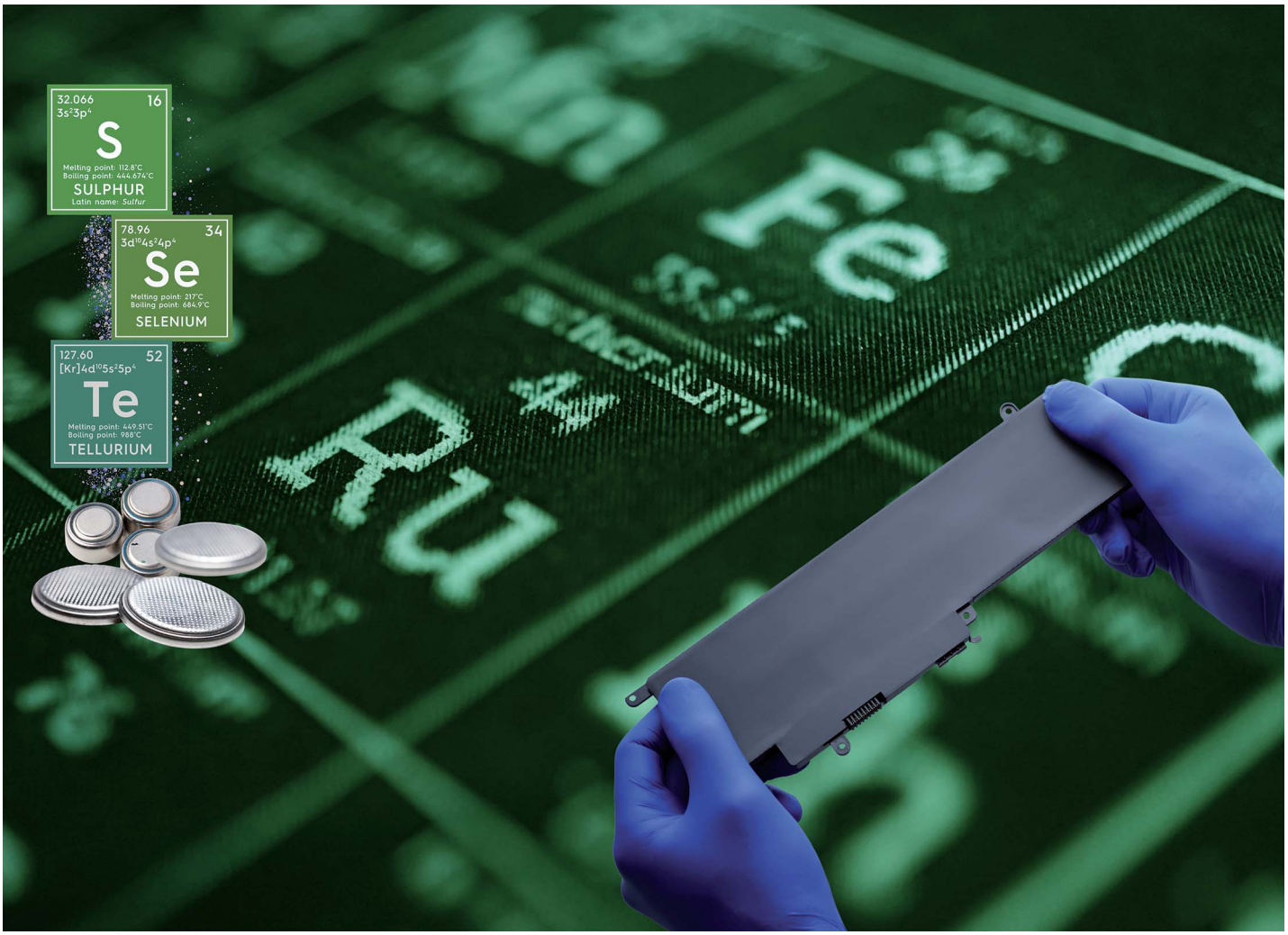


**Showcasing research from Dr. Soubantika Palchoudhury's laboratory, Chemical and Materials Engineering, University of Dayton, USA.**

Transition metal chalcogenides for next-generation energy storage

This work highlights the major breakthrough in research at the rich interface of nanochemistry for new transition metal chalcogenides and next-generation energy storage. The tunable electronic properties of chalcogenide nanocrystals galvanize new advances in alternative electrode materials for energy storage devices. Therefore, this work showcases the progress of chalcogenide nanostructures and layered mesostructure-based electrodes in lithium-ion, sodium-ion, and potassium-ion batteries and flexible supercapacitors. Cover image created by Dr. Soubantika Palchoudhury *via* Canva.com.

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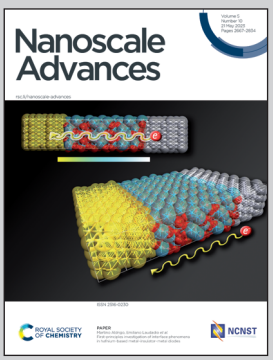


See Soubantika Palchoudhury, Arunava Gupta *et al.*, *Nanoscale Adv.*, 2023, **5**, 2724.

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