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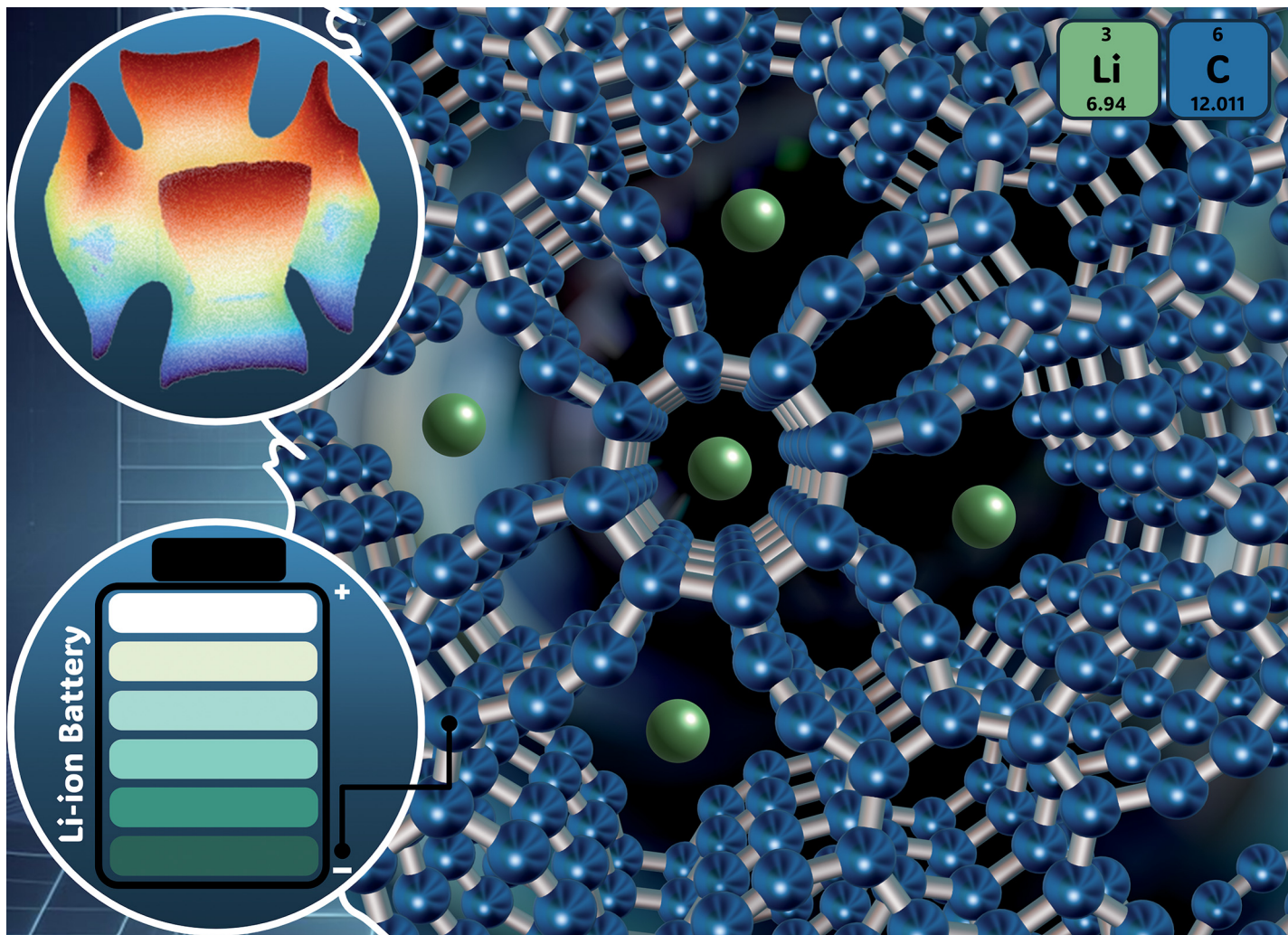
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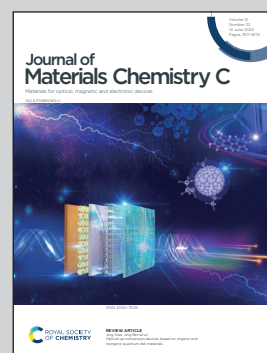


Showing research from the Ali group, Department of Chemistry, Khalifa University of Science and Technology, United Arab Emirates.

A nodal flexible-surface three-dimensional carbon network with potential applications as a lithium-ion battery anode material

Two- and three-dimensional carbon frameworks are of significant interest due to their promising electronic prospects. This study uses density functional methods to describe the design and development of a novel three-dimensional carbon network. It further explores the structural properties, dynamical and thermal stabilities, mechanical properties, electronic structure, and potential applications of novel carbon networks in Li-ion battery anode materials.

As featured in:



See Mohamad Akbar Ali *et al.*,
J. Mater. Chem. C, 2024, **12**, 7878.