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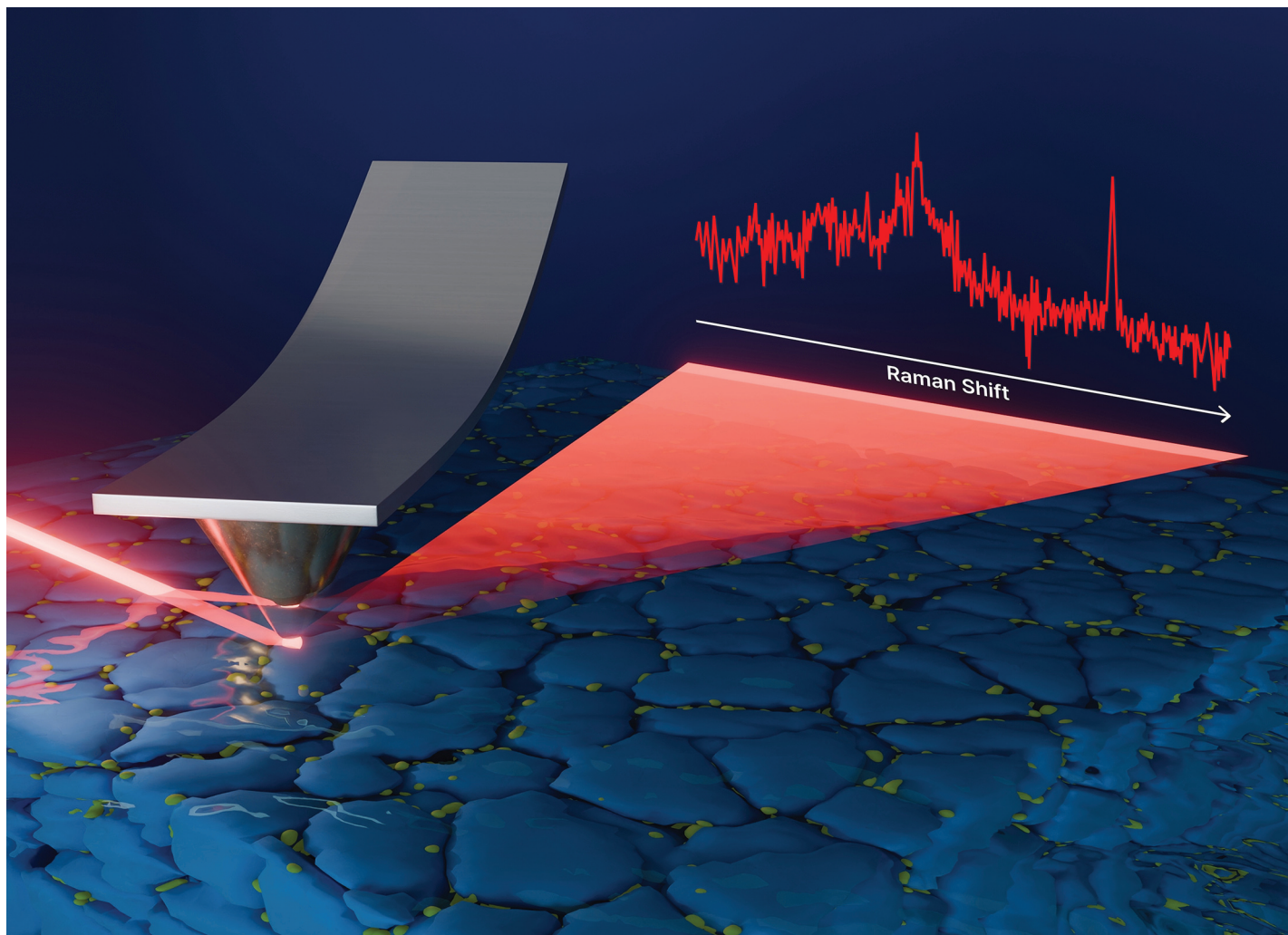
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**Showcasing research from Professor Albert Tarancón's laboratory, Catalonia Institute for Energy Research (IREC), Catalonia, Spain.**

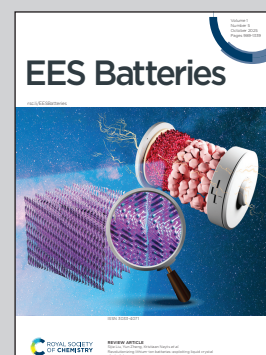
Unraveling nanoscale interfacial kinetics in battery cathodes through *operando* tip-enhanced Raman spectroscopy

Shining a nano-spotlight on working cathodes, *operando* TERS captures interfacial kinetics with chemical specificity. The approach resolves grain versus boundary behavior, visualizes phase fronts, and quantifies lithium transport as it happens. These insights expose hidden rate limitations and provide a blueprint for tailoring interfaces in next-generation batteries.

Image designed and illustrated by Princess Romero (IREC).

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**As featured in:**



See Juan Carlos Gonzalez-Rosillo, Alex Morata, Albert Tarancón *et al.*, *EES Batteries*, 2025, **1**, 1147.