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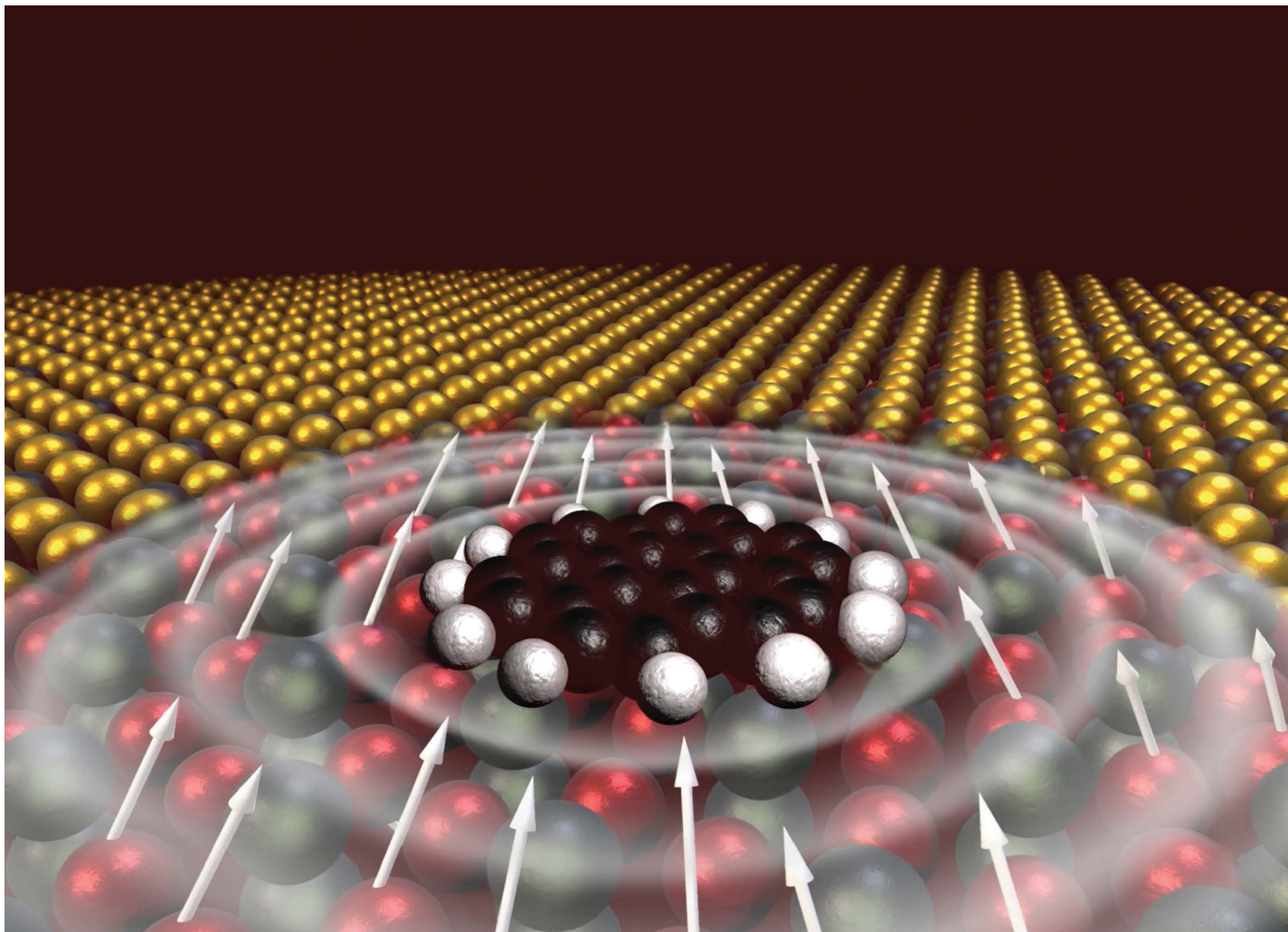
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Showcasing research from Professor José J. Baldoví's laboratory, Instituto de Ciencia Molecular (ICMol), University of València, Spain.

Towards molecular controlled magnonics

Magnonics is an emerging research field recognized as a paradigm shift for information technologies based on the use of spin waves. This work shows a promising and unexplored strategy to control the magnetic properties and, therefore, the spin excitation spectra of magnonic materials. Using first principles, we provide a new approach to magnonics based on the modulation of a single layer of CrSBr after the deposition of organic molecules. Our results lay the first stepping stone for the development of a next-generation of chemically controlled nanomaterials for magnonics.

As featured in:



See José J. Baldoví *et al.*,
Nanoscale Adv., 2024, 6, 3320.