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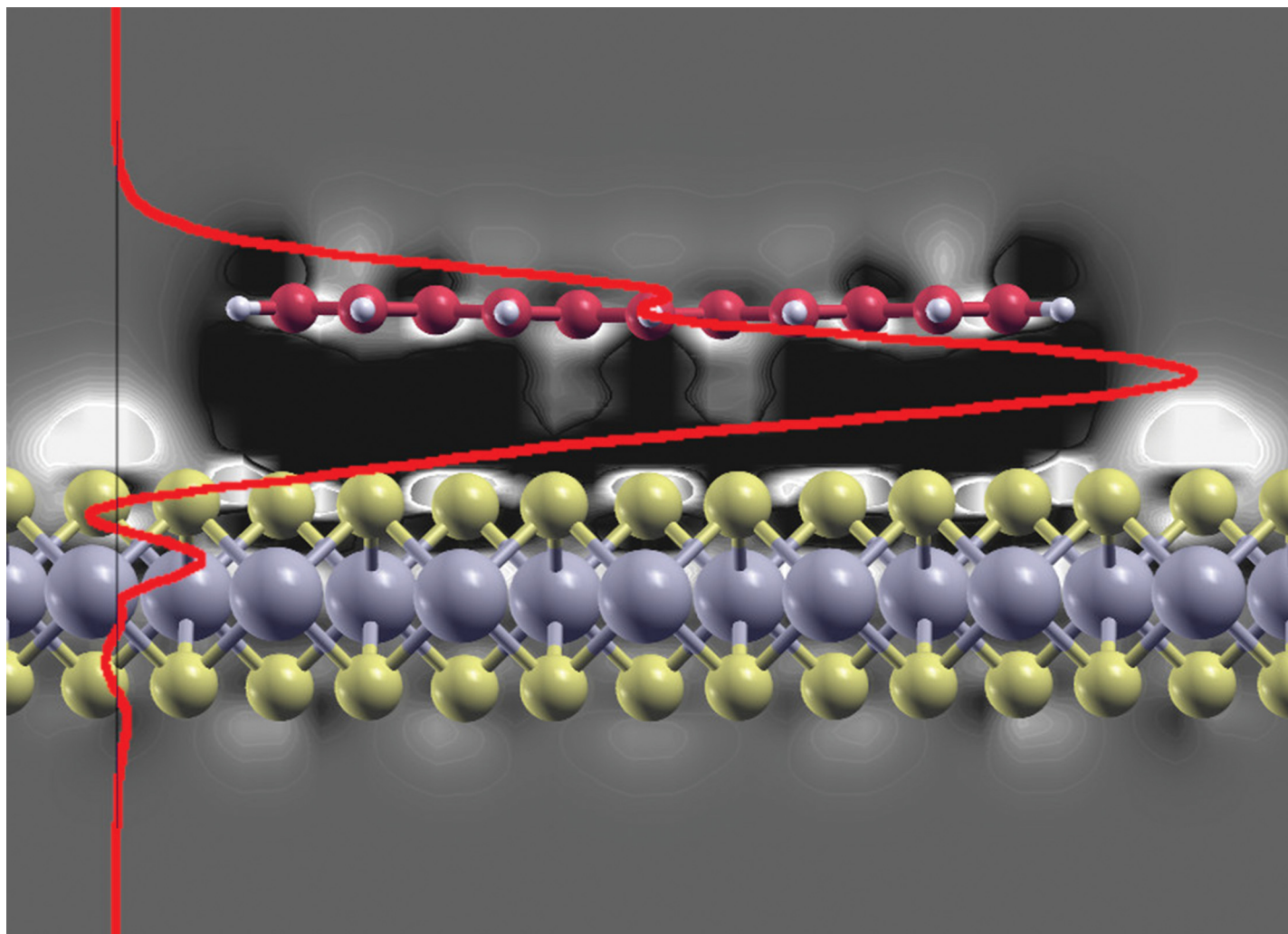
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Showcasing research from the Groups of Dr Juliana Morbec at Keele University, UK, and Prof Peter Kratzer, at the University of Duisburg-Essen, Germany.

Interaction between pentacene molecules and monolayer transition metal dichalcogenides

This work investigates the adsorption of pentacene molecules on monolayer transition metal dichalcogenides (TMDs), examining the effects of the interaction between these systems on the charge transfer, work functions, and band alignment of pentacene/TMD heterostructures. These heterostructures hold potential for applications in flexible, thin, and lightweight photovoltaics and photodetectors.

As featured in:



See J. M. Morbec *et al.*,
Phys. Chem. Chem. Phys.,
2023, **25**, 29444.