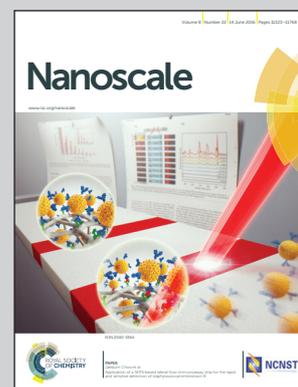


Showcasing research from the Department of Physics and the Hebei Advanced Thin Film Laboratory, Hebei Normal University, the State Key Laboratory for Superlattices and Microstructures, Institute of Semiconductors, Beijing, and the National Key Laboratory for Materials Simulation and Design, Beijing.

$\text{Sc}_{20}\text{C}_{60}$: a volleyballene

The *volleyballene* $\text{Sc}_{20}\text{C}_{60}$ molecule has 60 carbon atoms moulded into pentagons, plus 20 scandium atoms locked in octagons, an arrangement just the same as the way that volleyballs are stitched together. It possesses a T_h -symmetry and a relatively large hollow space. With its exceedingly high stability, *volleyballene*, after it is synthesized, may be able to accommodate other atoms or molecules for the purpose of studying fundamental chemistry, enabling a new perspective on buckyballs.

As featured in:



See Ying Liu *et al.* *Nanoscale*, 2016, 8, 11441.



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