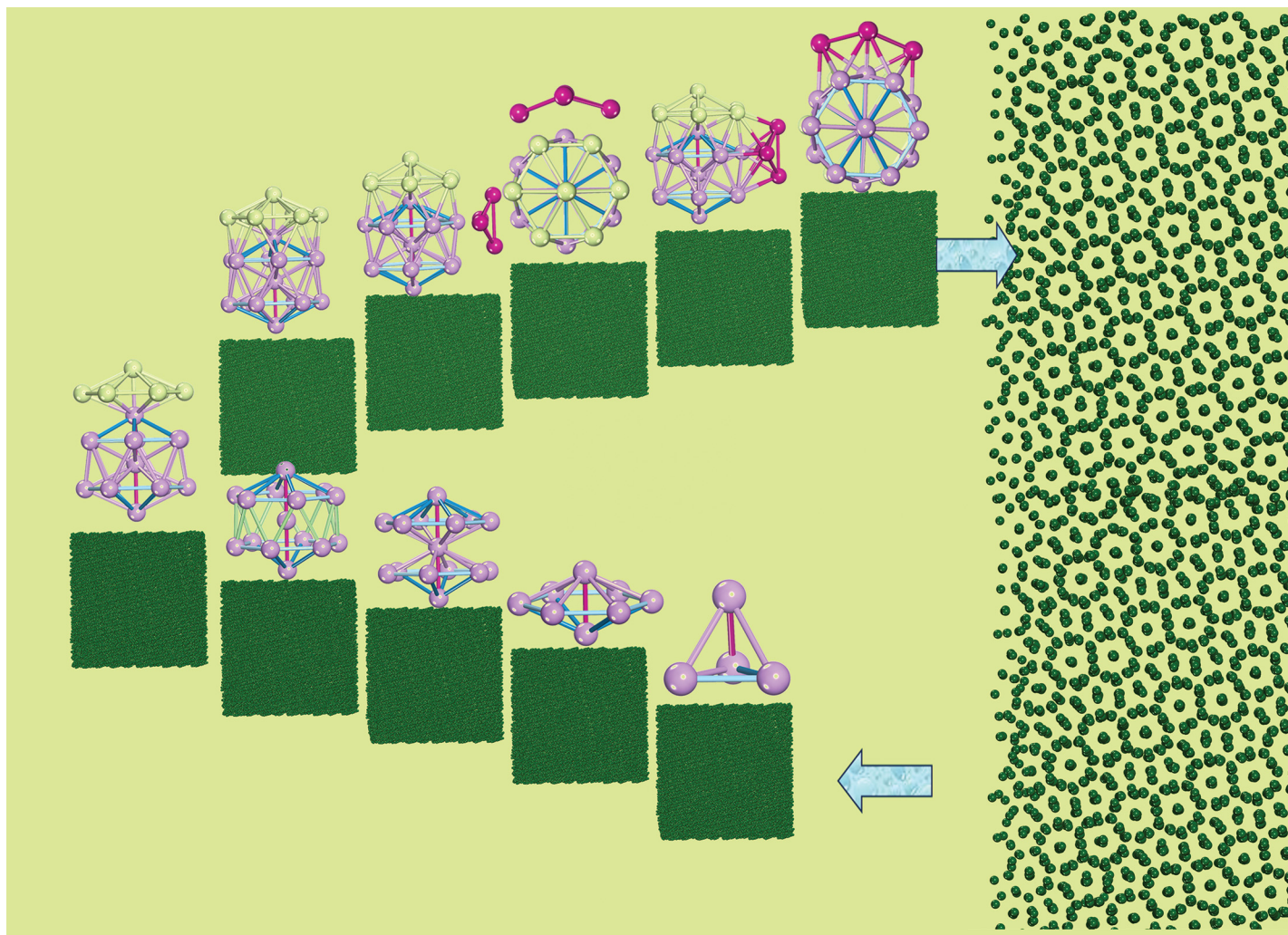


EES Batteries

**Exceptional research on
batteries and energy storage**

Part of the EES family

**Join
in** | Publish with us
rsc.li/EESBatteries



Showcasing research from Professor Yuanqi Jiang at Nanchang Normal University, China

The origin of the anomalous expansion of the first peak in the radial distribution function during the rapid solidification of tantalum metal

Yuanqi Jiang has long dedicated his research to the non-equilibrium solidification of liquid metals and the atomic-scale characterization of novel metallic glasses. In this work, he and his collaborators provide an explanation for the anomalous expansion of the first peak in the RDF observed as the temperature decreases during the non-equilibrium solidification of liquid tantalum. This unexpected behavior is attributed to the synergistic effects of geometric and electronic structure transformations induced by rapid cooling.

Image reproduced by permission of Yuanqi Jiang from *Phys. Chem. Chem. Phys.*, 2025, **27**, 13280.

As featured in:



See Yuanqi Jiang *et al.*,
Phys. Chem. Chem. Phys.,
2025, **27**, 13280.