

A Journal of the Gesellschaft Deutscher Chemiker

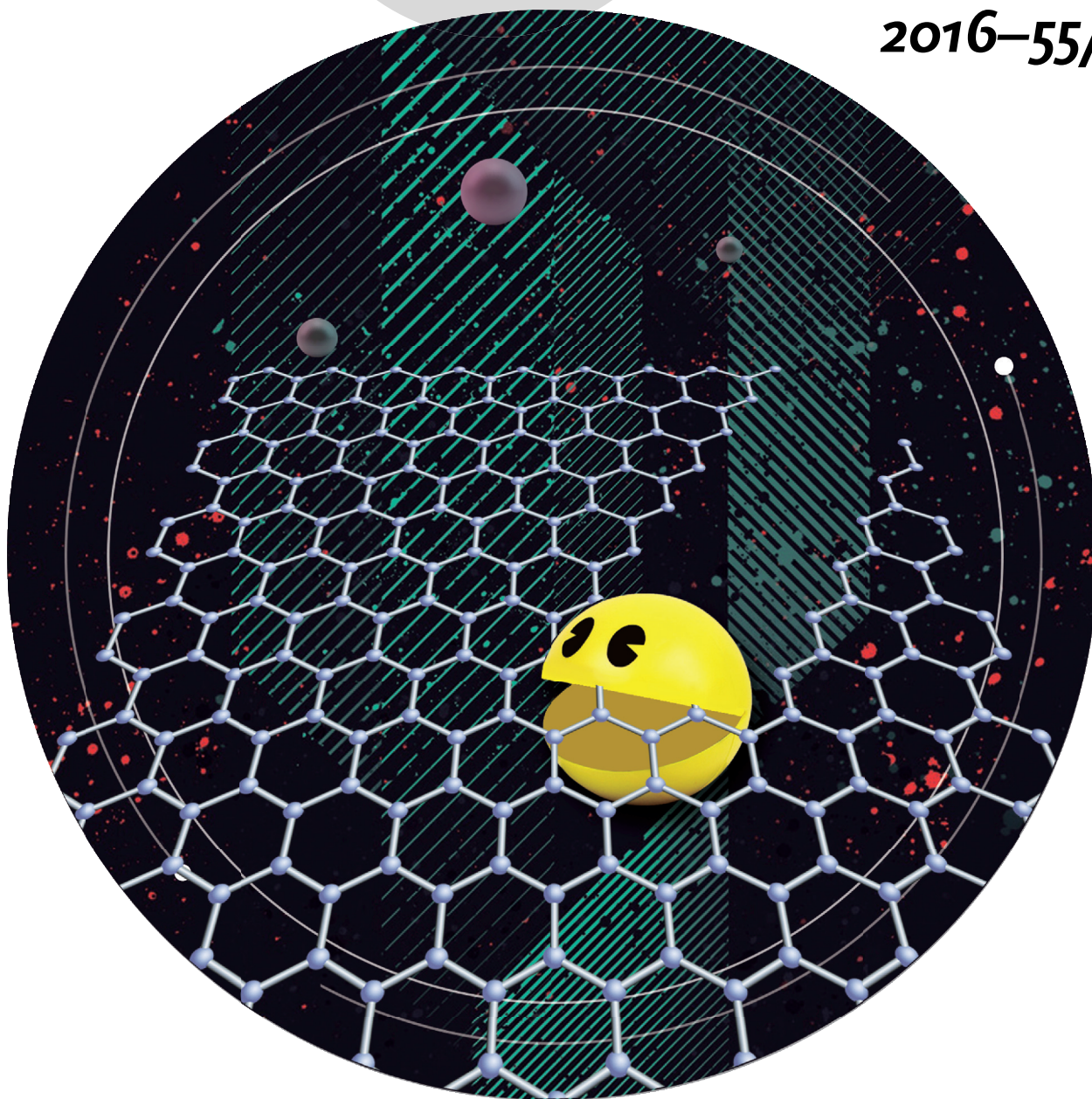
Angewandte Chemie

GDCh

International Edition

www.angewandte.org

2016–55/34



A “Pac-Man” mechanism ...

... is revealed for the metal-nanoparticle-catalyzed cutting of graphene by employing a multiscale simulation approach. Z. Li et al. report in their Communication on page 9918 ff. that although the overall cutting rate is proportional to the surface area of the nanoparticle, the rate-limiting step of graphene cutting is actually at the graphene–metal interface. Such an apparent inconsistency turns out to be a result of the distinct etching behaviors at zigzag and armchair edge sites.

WILEY-VCH