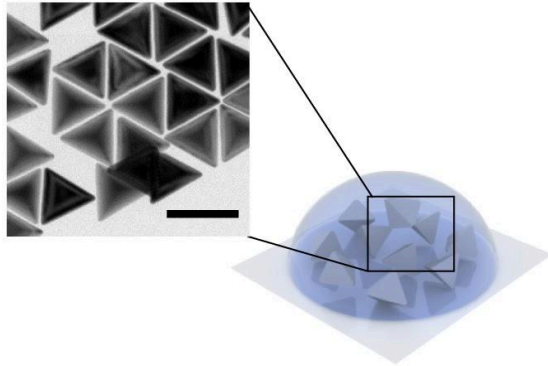


Nov. 28, 2022

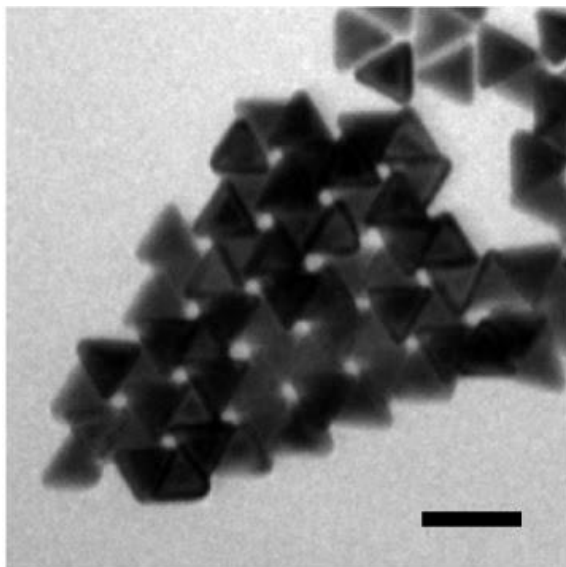
Contacts: Katherine McAlpine, [kmca@umich.edu](mailto:kmca@umich.edu)

## Captions: "Transformer" pinwheels offer new twist on nano-engineered materials



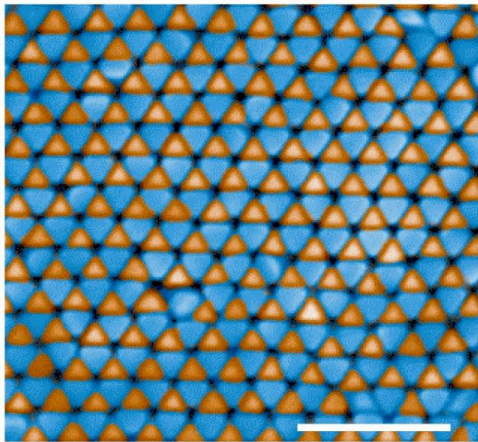
droplet-fig2a.tif

As the droplet dries, the nanoparticles settle into pinwheel patterns. The ability to make these twisted structures at the nanoscale could have applications in sensing, machine vision and more. Credit: S. Zhou et al, Nature, DOI: 10.1038/s41586-022-05384-8

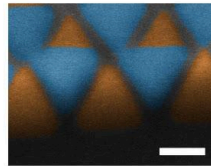
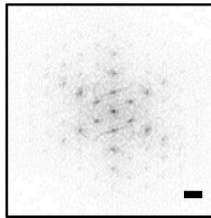


pinwheel-fig3c.tif

An electron microscope image shows the nanopyrramids settled into a pinwheel pattern. The ability to make these twisted structures at the nanoscale could have applications in sensing, machine vision and more. Credit: S. Zhou et al, Nature, DOI: 10.1038/s41586-022-05384-8



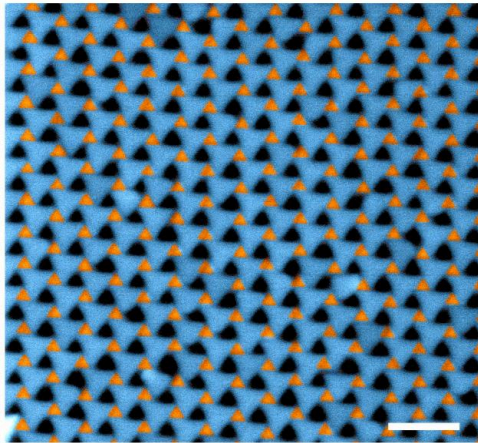
Honeycomb



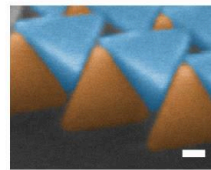
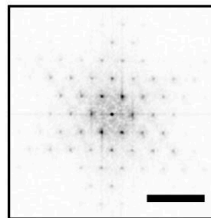
honeycomb-fig2d.tif

Colorized electron microscope images (blue and orange) alongside the X-ray diffraction pattern reveals the honeycomb structure. Credit: S. Zhou et al, Nature, DOI:

10.1038/s41586-022-05384-8



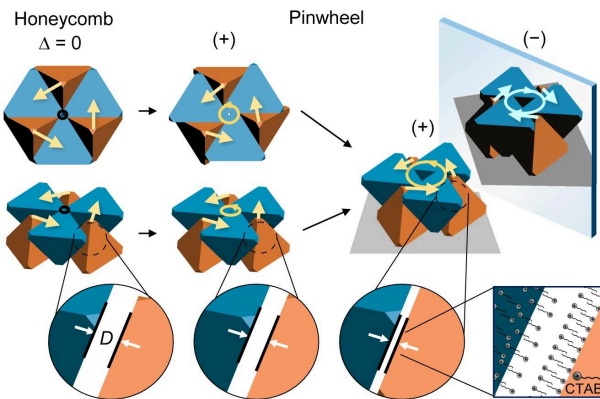
Pinwheel



pinwheel-fig2e.tif

Colorized electron microscope images (blue and orange) alongside the X-ray diffraction pattern reveals the pinwheel structure. The ability to make these twisted structures at the nanoscale could have applications in sensing, machine vision and more. Credit: S. Zhou et al, Nature, DOI:

10.1038/s41586-022-05384-8



honeycomb-to-pinwheel-fig2c.tif

The illustration shows how the honeycomb structure reconfigures into a pinwheel structure. The ability to make these twisted structures at the nanoscale could have applications in sensing, machine vision and more. Credit: S. Zhou et al, Nature, DOI:

10.1038/s41586-022-05384-8