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Shaping graphene nanostructures with water droplets

(Nanowerk News) Graphene -- A single-atom-thick sheet of carbon, like those seen in pencil marks -- offers great potential for new types of nanoscale devices, if a good way can be found to mold the material into desired shapes. Full Article at Nanowerk Nanotechnology Spotlight

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   ScienceDaily (Dec. 17, 2009) Graphene -- A single-atom-thick sheet of carbon, like those seen in pencil marks -- offers great potential for new types of nanoscale devices, if a good way can be found to mold the material into desired shapes. Full Article at Science Daily

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   Graphene -- A single-atom-thick sheet of carbon, like those seen in pencil marks -- offers great potential for new types of nanoscale devices, if a good way can be found to mold the material into desired shapes. Full Article at EurekAlert

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   A team of University of Illinois at Chicago chemists, lead by assistant professor Petr Král report the ability to bend and reshape graphene, opening up the possibility of forming new and novel devices in the nanoscale. Full Article at Generef.com

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   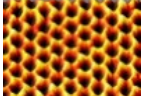

These first time ever images were recorded at Berkeley Lab's National Center for Electron Microscopy (NCEM), a DOE national user facility that is a premier center for electron microscopy and microcharacterization. Full Article at Nanotech Now

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1. " Depending on the size of the water droplet and the shape and size of graphene flake used, we can fold it in different shapes for various applications ... It's similar to the way proteins are folded in biological cells with the help of chaperone proteins."
   SOURCE: Nanowerk Nanotechnology Spotlight 11 hours ago
2. " We're trying to detect signals from the biological world or pass signals to the biological world ... In the future, perhaps proteins will evolve to interact with inorganic systems. It's a way of evolution to form a new interface, or hybrid system, working together on novel functions."
   SOURCE: Nanowerk Nanotechnology Spotlight 11 hours ago
3. " Up until now, it wasn't thought we could controllably fold these structures ... But now we know how to shape graphene by using weak forces between nanodroplets carefully positioned on graphene sheets."
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