Engineering News

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Shrinking blades

Posted July 19, 2007 9:29 AM

From The Engineer:

Chemists at the University of Illinois at Chicago have created a theoretical blueprint for assembling a nanoscale propellor with molecule-sized blades. Such a device would allow liquids to be pumped at a cellular scale for applications such as targeting medicines and regulating flow into and out of cells. Using traditional molecular dynamics simulations, Petr Král, assistant professor of chemistry at UIC, and his team were able to study realistic conditions in this microscopic environment to learn how the tiny propellers pump liquids, in particular, water and oils. 'We want to see what happens when the propellers get to the scale where it's impossible to reduce the size of the blades any more,' said Král.

Read the whole article

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"Let me tell you the secret that has led me to my goal: my strength lies solely in my tenacity." -- Louis Pasteur

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