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	Using classical molecular dynamics simulations, Petr Král,				
LINK TO US	assistant professor of chemistry at UIC, and his laboratory				
	coworkers were ab	le to study realistic conditions in this	Cofficience		
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	liquids.				
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		pumping of liquids, notably water and ons.	-		
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	we want to see w	nat nappens when the propellers get to the	129:00		
« PARTNERS »	scale where it's im	possible to reduce the size of the blades any			
Become A Nanotechwire	more," said Král.				
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	Král's group found	that at the molecular level unlike at the			
V NSTI	macro level the	chemistry of the propeller's blades and their			
	sensitivity to water	play a big role in determining whether the	« EVENTS »		
Nano Science and Technology	propeller numps ef	ficiently or just spins with little effect. If the	Texas 2007		
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Vanotechnology at Zyvex « NEWSLETTER » your email here SUBSCRIBE • SEARCH » SEARCH	 hydrophobic forms can differ by an order of magnitude, which was not expected," he said. The UIC researchers found that propeller pumping efficiency in liquids is highly sensitive to the size, shape, chemical or biological composition of the blades. "In principle, we could even attach some biological molecules to the blades and form a propeller that would work only if other molecules bio-compatible with the blades are in the pumped solution," he said. The findings present new factors to consider in developing nanoscale liquid-pumping machines, but Král added that such 	SEMATECH, provides a forum for educators, business leaders, and policy makers to learn about the emerging field of nanoscience and technology, how to incorporate nanotopics into science education curriculum, and encourage economic development within their community.
Ads by Google Vera Wang China Authorized Dealer Free Rim Soup Save 10-50% Toll free 888-276-3822 www.crystallia.com	 technology probably won't become reality for several years, given the difficult nature of constructing such ultra-small devices. Král's laboratory studies how biological systems, like tiny flagella that move bacteria, offer clues for building motors, motile systems and other nanoscale devices in a hybrid environment that combines biological and inorganic chemistry. "The 21st century will be about hybrid biological and artificial nanoscale systems and their mutual co-evolution," Král predicts. "My group alone is working on about a half-dozen such projects. 	a Carbon Nanotubes and Related Structu Peter J. F. Harris Best Price \$35.99 or Buy New \$54.60
Nanotech's Future Is Now. Learn How To Profit in this Free Research Rpt www.QuantumInvestor.com/Nanot Wang Center Wang Center Tickets - Cheap. Check Our Prices. Save 10% Or More. www.TicketLiquidator.com	 The PRL article was co-authored by UIC chemistry graduate student Boyang Wang. For more information about UIC, visit http://www.uic.edu <i>Other Headlines from University of Illinois</i> Carbon Nanotubes Yield A New Class Of Biological Sensors UIC Chemist Develops Tools for Nanotechnology High-intensity ultrasound creates hollow nanospheres and nanocrystals Thin films of silicon papoparticles roll into flavible papotubes 	Privacy Information
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