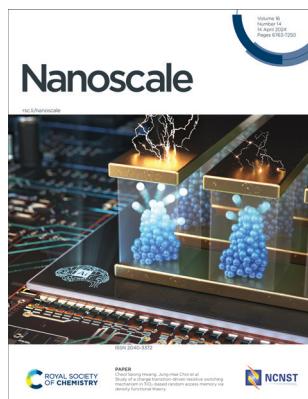


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pp. 6949–6960.

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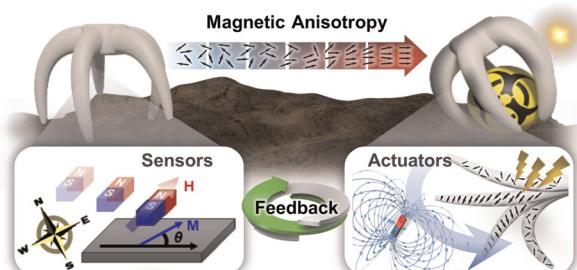


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# Environmental Science: Atmospheres



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Fundamental questions  
Elemental answers



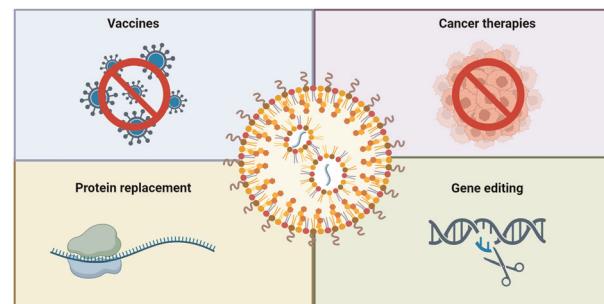
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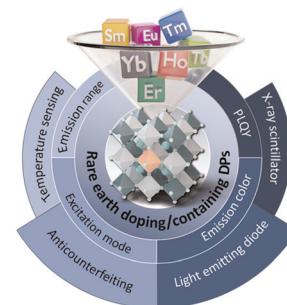
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Haiyan Wang, Jiandong Yao and Ruosheng Zeng\*



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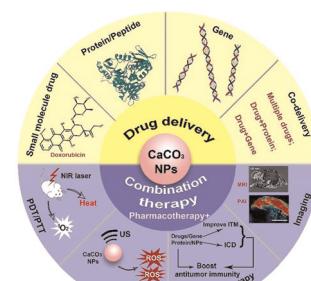
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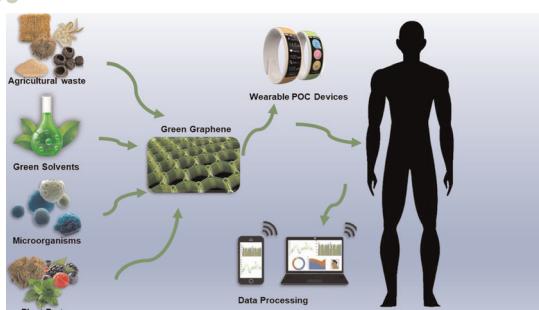
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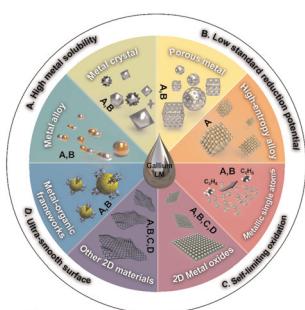
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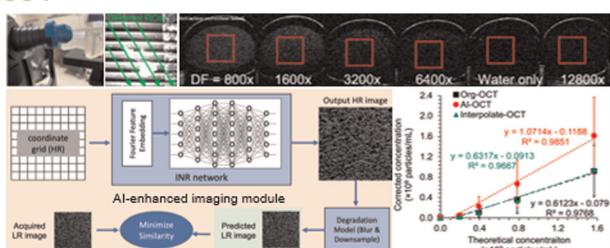
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**Gallium-based liquid metals as reaction media for nanomaterials synthesis**

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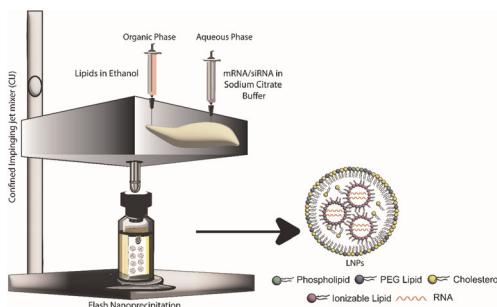
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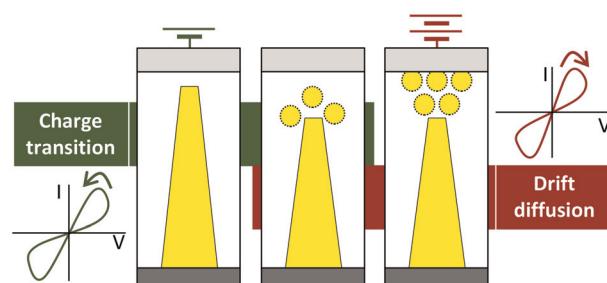


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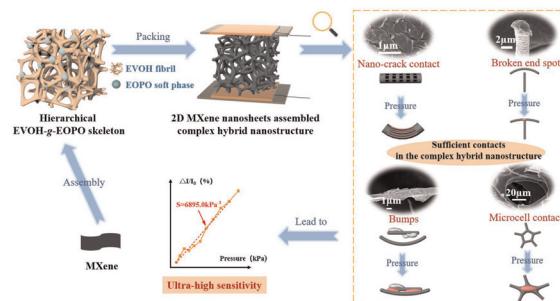
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## Two-dimensional MXene nanosheets on nano-scale fibrils in hierarchical porous structure to achieve ultra-high sensitivity

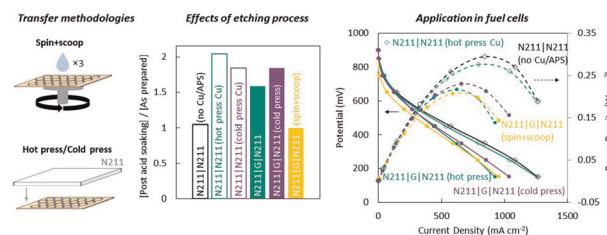
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## Ultra-thin proton conducting carrier layers for scalable integration of atomically thin 2D materials with proton exchange polymers for next-generation PEMs

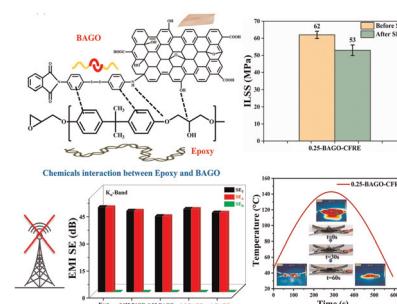
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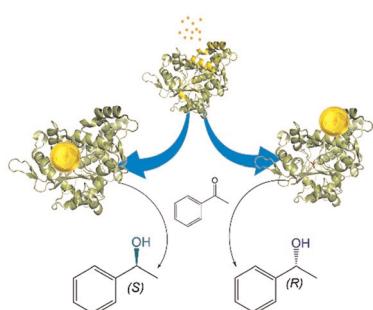
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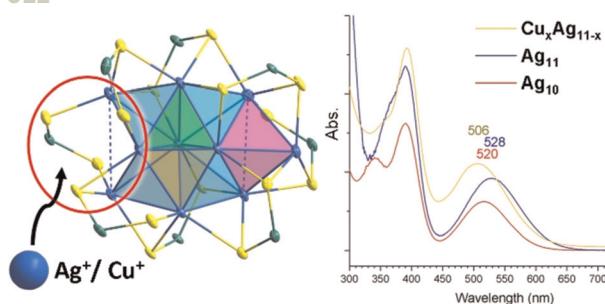
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### Design of a gold nanoparticles site in an engineered lipase: an artificial metalloenzyme with enantioselective reductase-like activity

Carla Garcia-Sanz, Blanca de las Rivas and Jose M. Palomo\*

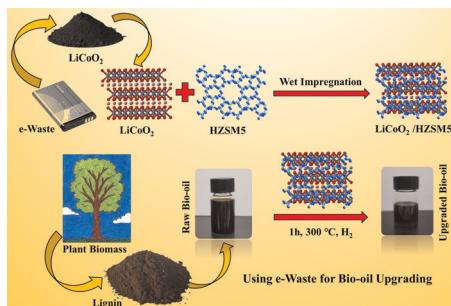
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### Doping effect on a two-electron silver nanocluster

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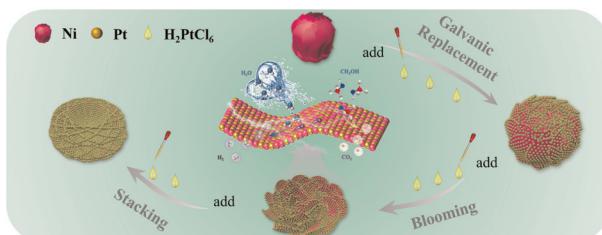
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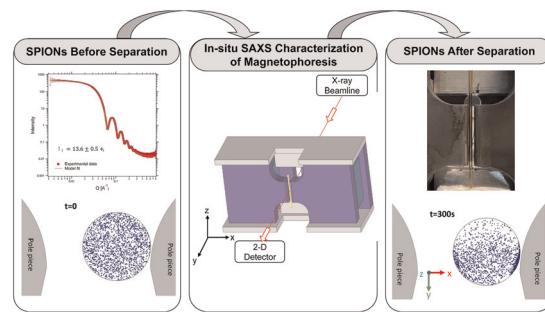


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**Numerical modeling and *in situ* small angle X-ray scattering characterization of ultra-small SPION magnetophoresis in a high field and gradient separator**

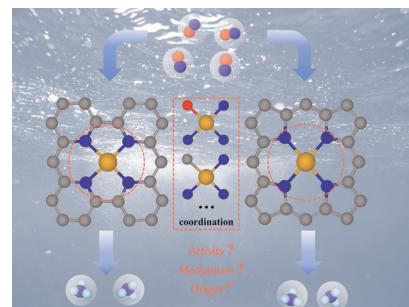
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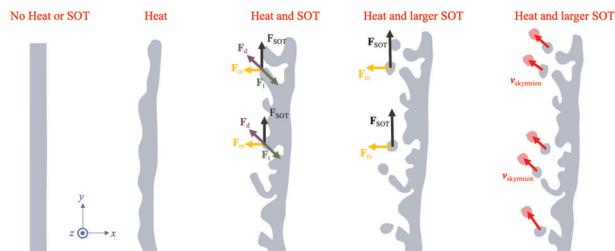
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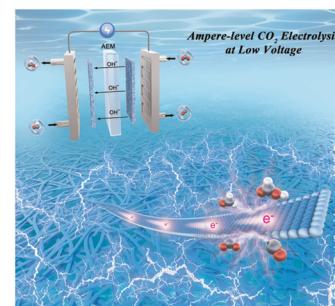
Sheng Yang, Laichuan Shen, Yuelei Zhao, Kai Wu, Xiaoguang Li, Ka Shen, Senfu Zhang, Xiaohong Xu, Johan Åkerman and Yan Zhou\*



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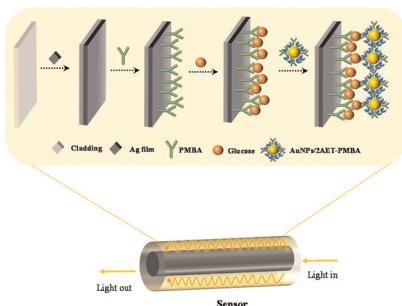
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Min Zhang, Xinyu Wang, Junjie Ding, Chaogang Ban, Yajie Feng, Chaohe Xu\* and Xiaoyuan Zhou\*



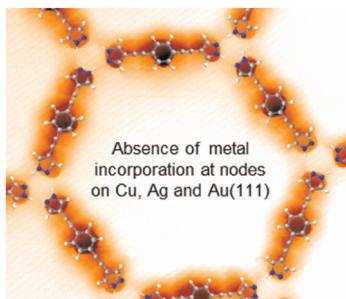
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**Silver-coated hollow fiber surface plasmon resonance sensor for glucose detection with enhanced limit of detection**

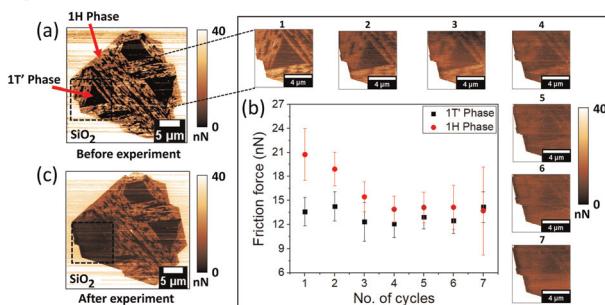
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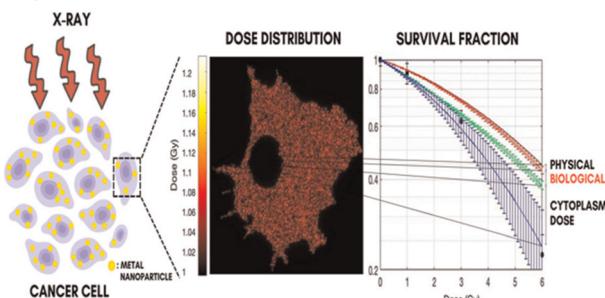
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Rodrigo Hernández Millares, Chaewon Bae, Seok-Jin Kim, Taewan Kim, So-Yeon Park, Kangwon Lee\* and Sung-Joon Ye\*

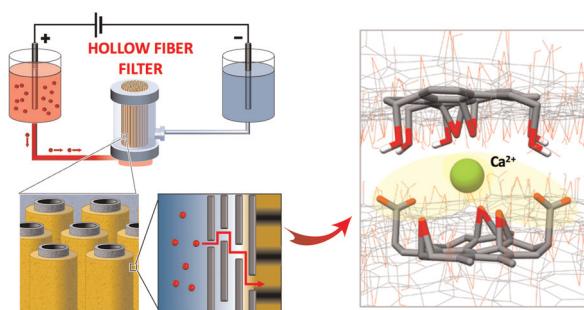


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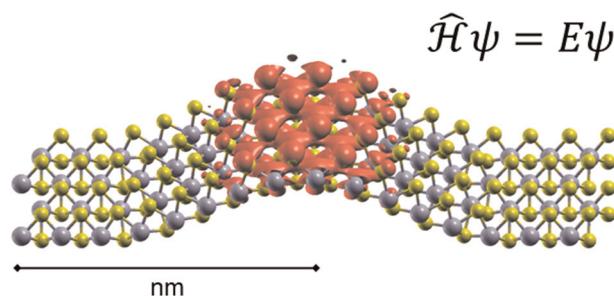
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**Electronic properties of MoSe<sub>2</sub> nanowrinkles**

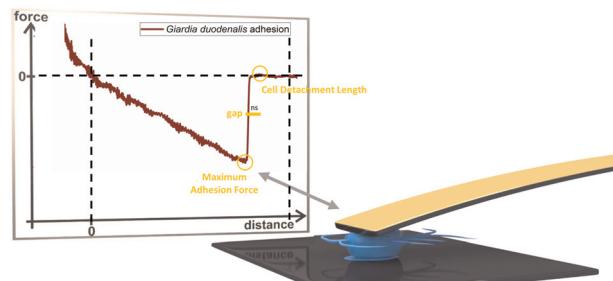
Stefan Velja,\* Jannis Krumland and Caterina Cocchi\*



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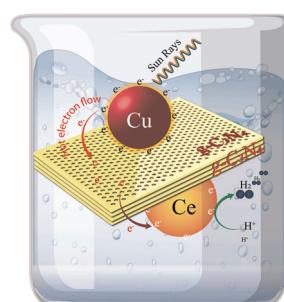
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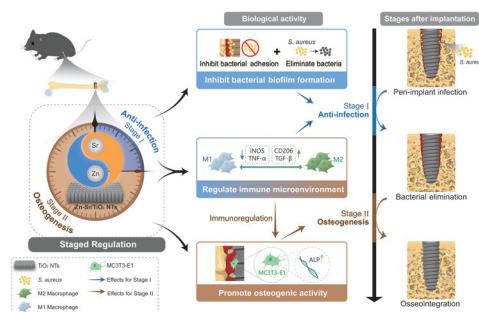
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Muhammad Zeeshan Abid, Aysha Tanveer, Khezina Rafiq,\* Abdul Rauf, Rongchao Jin and Ejaz Hussain\*



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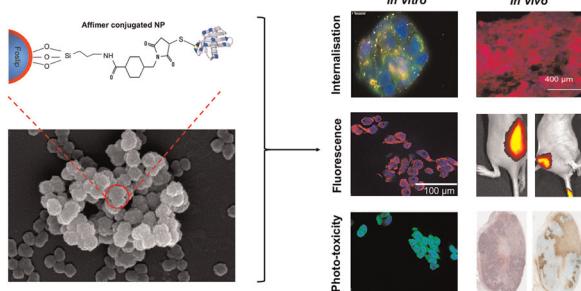
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## Ion-incorporated titanium implants for staged regulation of antibacterial activity and immunoregulation-mediated osteogenesis

Bingfeng Wu, Yufei Tang, Keyi Yao, Xin Luo, Shuqi Feng, Kai Wang, Xuemei Zhou\* and Lin Xiang\*

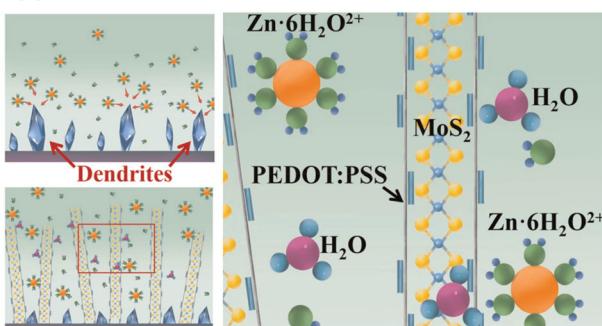
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## Photoactive imaging and therapy for colorectal cancer using a CEA-Affimer conjugated Foslip nanoparticle

Yazan S. Khaled,\* M. Ibrahim Khot, Radhika Aiyappa-Maudsley, Thomas Maisey, Arindam Pramanik, Jim Tiernan, Nicole Lintern, Eiman Al-Enezi, Shazana H. Shamsuddin, Darren Tomlinson, Louise Coletta, Paul A. Millner, Thomas A. Hughes\* and David G. Jayne\*

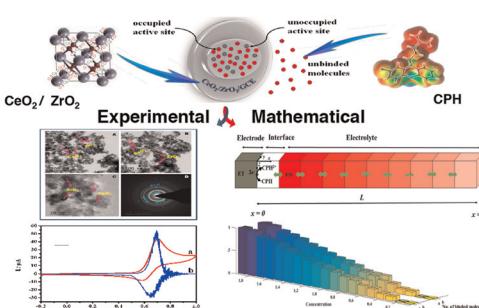
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Hai Wang, Qin Zhao, Weimin Li,\* Shun Watanabe\* and Xiaobo Wang\*

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## An innovative experimental and mathematical approach in electrochemical sensing for mapping a drug sensor landscape

Madheswaran Madhavan, Babu Shobana, Duraisamy Pandiaraja\* and Periakaruppan Prakash\*

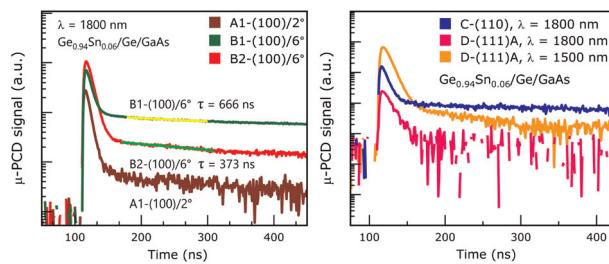


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**GeSn-on-GaAs with photoconductive carrier lifetime >400 ns: role of substrate orientation and atomistic simulation**

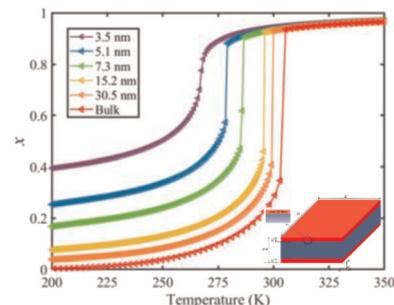
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**Effects of the surface energy and surface stress on the phase stability of spin crossover nano-objects: a thermodynamic approach**

Shiteng Mi, Karl Ridier, Gábor Molnár, William Nicolazzi\* and Azzedine Bousseksou\*



## CORRECTION

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Bruno S. D. Onishi, Albano N. Carneiro Neto, Ricardo Bortolotto-Santos, Valmor. R. Mastelaro, Luís D. Carlos, Rute A. S. Ferreira\* and Sidney J. L. Ribeiro\*