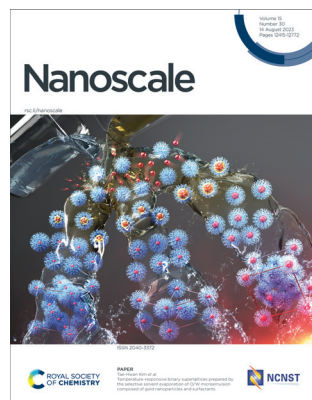


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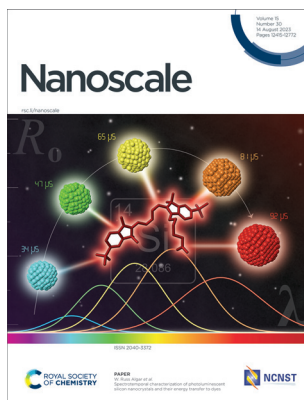
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See W. Russ Algar *et al.*, pp. 12492–12505.

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PROFILE

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Nanoscale profiles: contributors to the Emerging Investigators 2023 issue

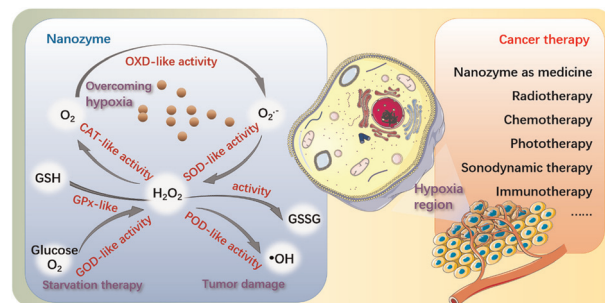


MINIREVIEW

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Nanozyme: a rising star for cancer therapy

Qingqing Wang,* Jing Liu, Liangcan He, Shaoqin Liu* and Piaoping Yang*



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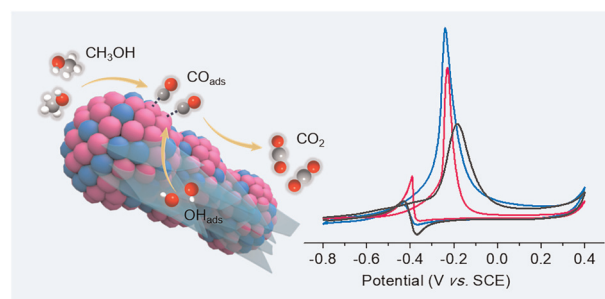


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Hierarchical PdNi alloy nanochains coupled with Ni(OH)₂ nanosheets to enhance CO-poisoning resistance for the methanol oxidation reaction

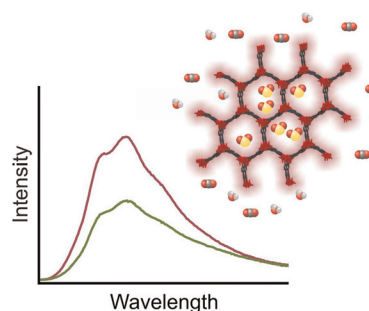
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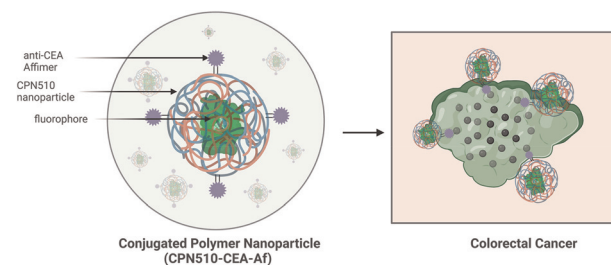
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Precious Jolugbo, Thomas Willott, Wei-Hsiang Lin, Thomas Maisey, Dermott O'Callaghan, Mark A. Green, David G. Jayne and M. Ibrahim Khot*

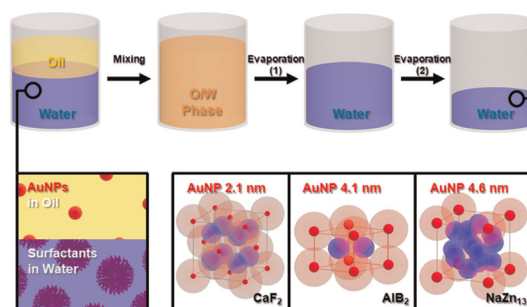


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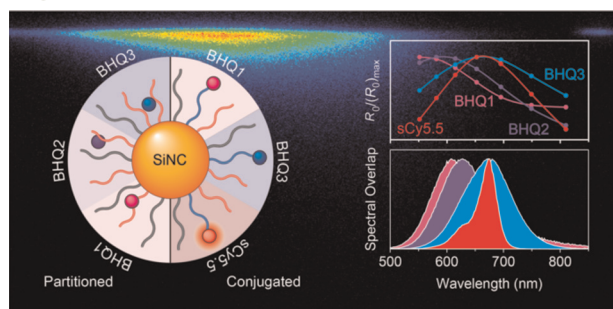
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Temperature-responsive binary superlattices prepared by the selective solvent evaporation of O/W microemulsion composed of gold nanoparticles and surfactants

Young-Jin Yoon, Jae-Min Ha, Hyuk-Jin Seo, Jong Dae Jang, Changwoo Do and Tae-Hwan Kim*



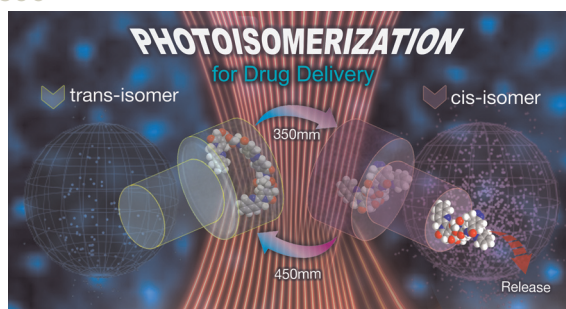
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Spectrotemporal characterization of photoluminescent silicon nanocrystals and their energy transfer to dyes

Hsin-Yun Tsai, Christopher Jay T. Robidillo, Gunwant K. Matharu, Kevin O'Connor, I. Teng Cheong, Chuyi Ni, Jonathan G. C. Veinot and W. Russ Algar*

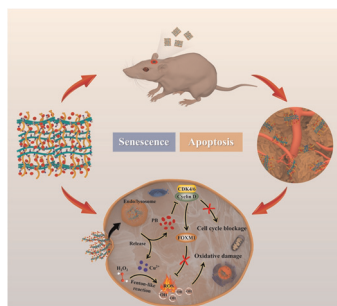
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Light-activated controlled release of camptothecin by engineering porous materials: the ship in a bottle concept in drug delivery

Eva Rivero-Buceta, Mirela E. Encheva, Bradley Cech, Eduardo Fernandez, Germán Sastre, Christopher C. Landry* and Pablo Botella*

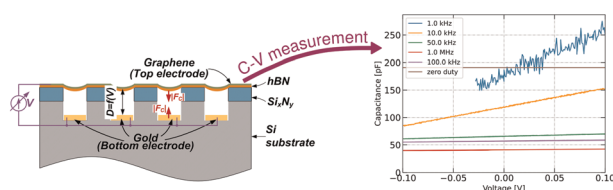
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Xia Zhang, Like Ning, Hongshuai Wu, Suisui Yang, Ziyi Hu, Wenhong Wang, Yuandong Cao, Hongliang Xin, *Chaoqun You* and Fan Lin*

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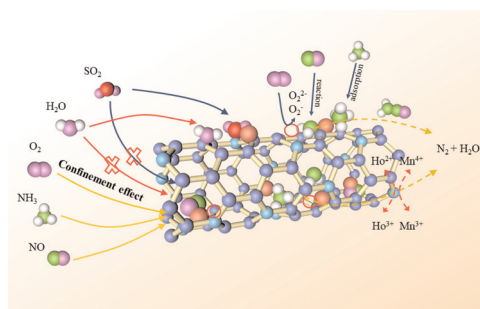


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Unveiling a remarkable enhancement role by designing a confined structure Ho-TNTs@Mn catalyst for low-temperature NH₃-SCR reaction

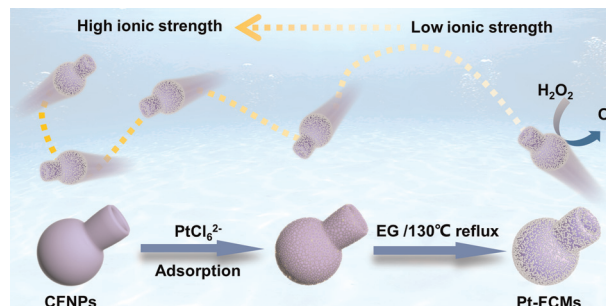
Tian Zhao, Xiaosheng Huang,* Rongji Cui, Guodong Zhang and Zhicheng Tang*



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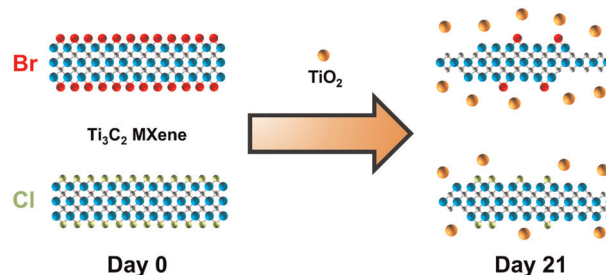
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Effect of terminal groups on the degradation stability of Ti₃C₂T_z MXenes

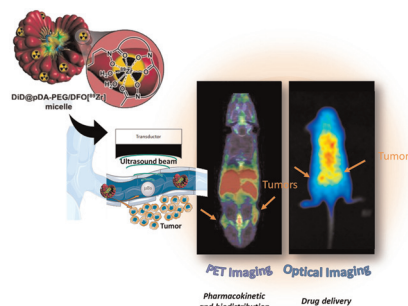
Swarnima Athavale, Stefano A. Micci-Barreca, Kailash Arole, Vrushali Kotasthane, Jodie L. Lutkenhaus, Miladin Radovic and Micah J. Green*



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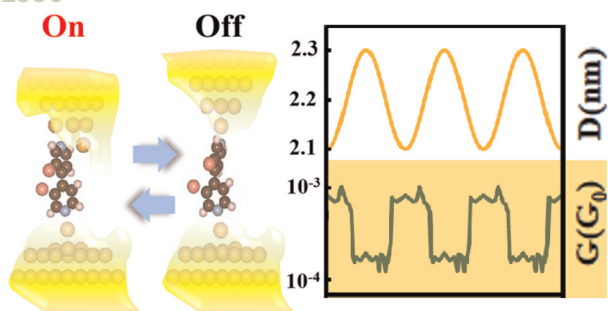
Sonoporation-assisted micelle delivery in subcutaneous glioma-bearing mice evaluated by PET/fluorescent bi-modal imaging

Estelle Porret, Stéphane Hoang, Caroline Denis, Eric Doris, Martin Hruby, Anthony Novell, Edmond Gravel* and Charles Truillet*



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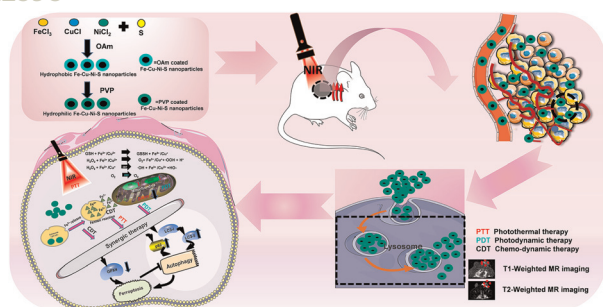
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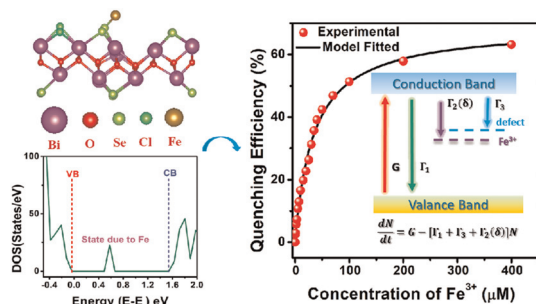
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An ultrasmall PVP-Fe-Cu-Ni-S nano-agent for synergistic cancer therapy through triggering ferroptosis and autophagy

Rongjun Zhang, Shuxiang Xu, Miaomiao Yuan,* Lihao Guo, Luoyijun Xie, Yingying Liao, Yang Xu* and Xuemei Fu*

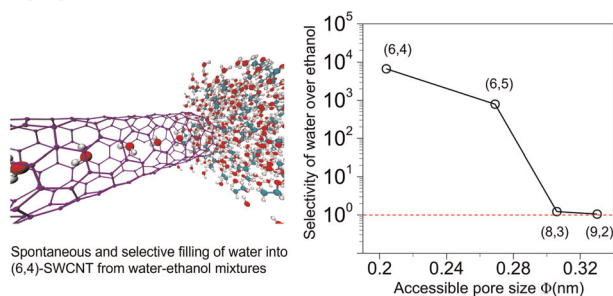
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Two-dimensional bismuth oxyselenide quantum dots as nanosensors for selective metal ion detection over a wide dynamic range: sensing mechanism and selectivity

Sumana Paul, Sanju Nandi, Mandira Das, Abhilasha Bora, Md Tarik Hossain, Subhradip Ghosh and P. K. Giri*

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Spontaneous sieving of water from ethanol using angstrom-sized nanopores

Archith Rayabharam, Haoran Qu, YuHuang Wang* and N. R. Aluru*

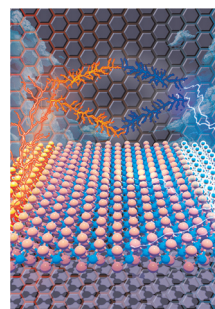


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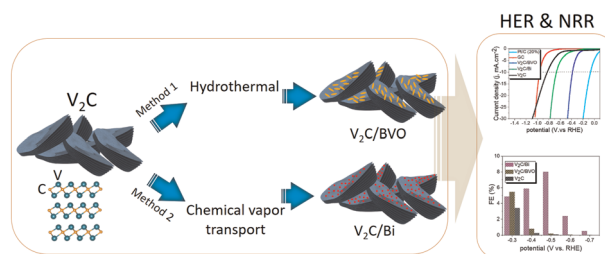
Soroush Sabbaghi, Vahid Bazargan and Ehsan Hosseini*



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Atomic-layered V₂C MXene containing bismuth elements: 2D/0D and 2D/2D nanoarchitectonics for hydrogen evolution and nitrogen reduction reaction

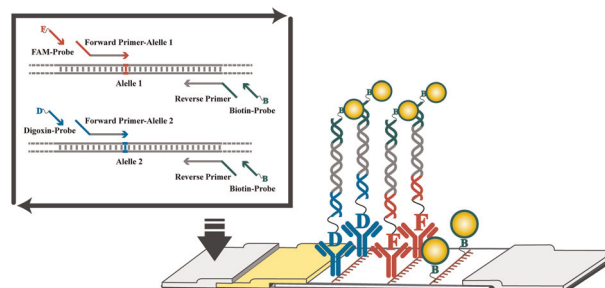
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Universal probe-based SNP genotyping with visual readout: a robust and versatile method

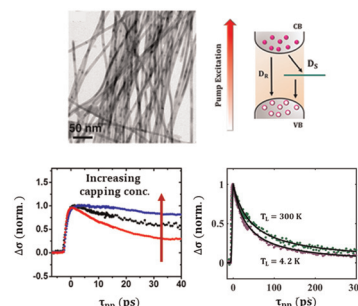
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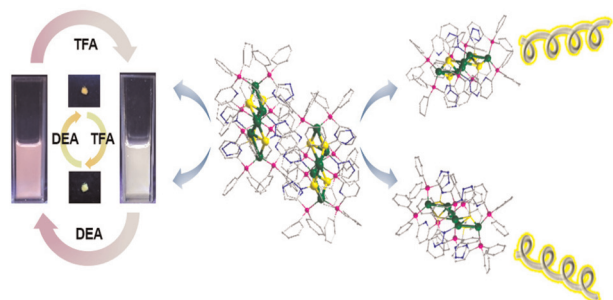
Ultrafast time-resolved carrier dynamics in tellurium nanowires using optical pump terahertz probe spectroscopy

K. P. Mithun, Shalini Tripathi, Ahin Roy, N. Ravishankar and A. K. Sood*



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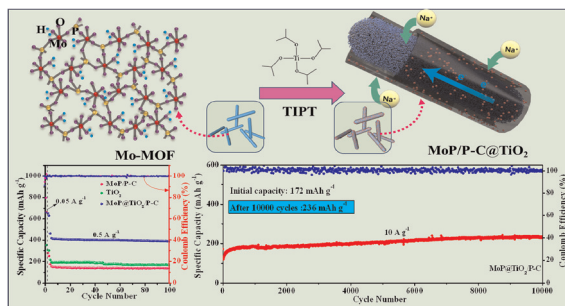
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Atomically precise chiral silver clusters based on non-chiral ligands for acid/base stimulated luminescence response

Shuaibo Wang, Weimiao He, Yujia Cui, Zhan Zhou,*
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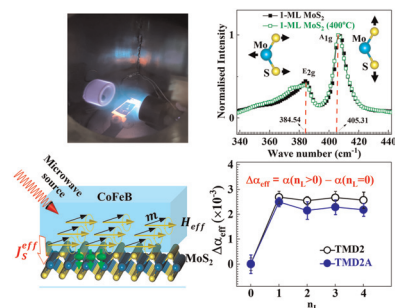
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TiO₂-coated MoP/phosphorus doped carbon nanorods for ultralong-life sodium ion batteries with high capacity

Chunmei Tan, Yiran Li, Wei He, Zhanzhan Wang,
Xiaoyu Liu, Yanjuan Li* and Xiao Yan*

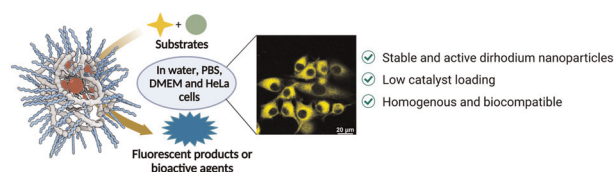
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High temperature stability in few atomic layer MoS₂ based thin film heterostructures: structural, static and dynamic magnetization properties

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Amphiphilic polymeric nanoparticles enable homogenous rhodium-catalysed NH insertion reactions in living cells

Anjana Sathyan, Tessa Loman, Linlin Deng and
Anja R. A. Palmans*

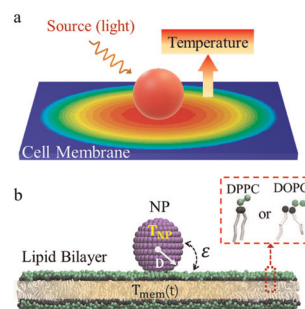


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Thermal-controlled cellular uptake of "hot" nanoparticles

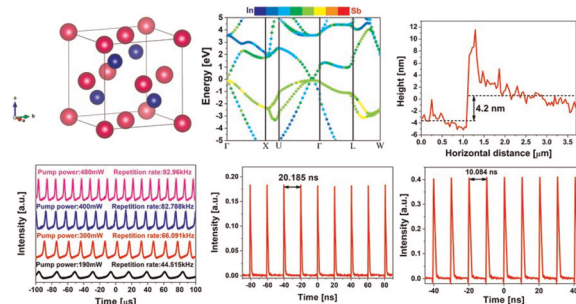
Haibo Chen, Xuewei Dong, Luping Ou, Chiyun Ma, Bing Yuan* and Kai Yang*



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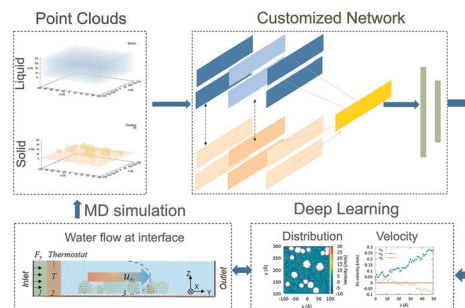
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Prediction of water transport properties on an anisotropic wetting surface via deep learning

Yuting Guo, Haiyi Sun, Meng An, Takuya Mabuchi, Yinbo Zhao and Gaoyang Li*



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Anti-amyloidogenic amphipathic arginine-dehydrophenylalanine spheres capped selenium nanoparticles as potent therapeutic moieties for Alzheimer's disease

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