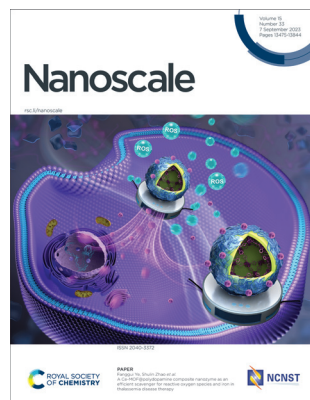


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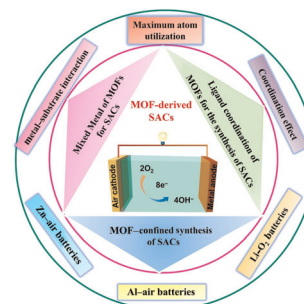
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MOF-derived single-atom catalysts for oxygen electrocatalysis in metal–air batteries

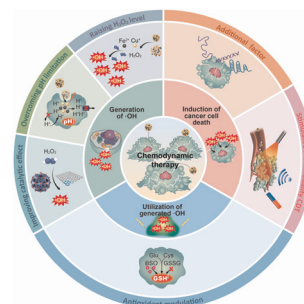
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Inorganic nanoparticle agents for enhanced chemodynamic therapy of tumours

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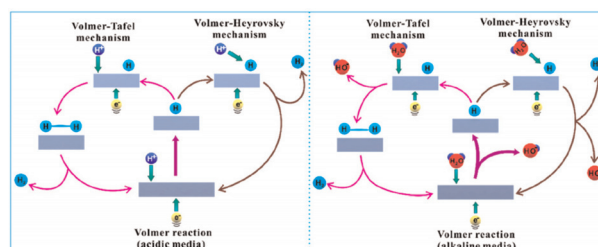


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Non-precious metal-based heterostructure catalysts for hydrogen evolution reaction: mechanisms, design principles, and future prospects

Mojie Sun, Yalin Li, Shijie Wang, Ziquan Wang, Zhi Li and Ting Zhang*

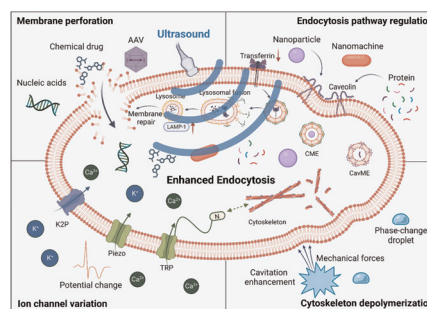


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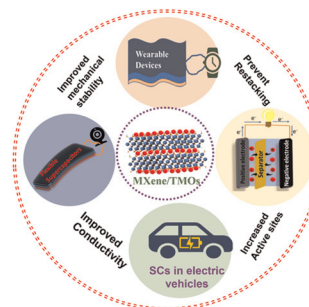
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Heterostructures of MXenes and transition metal oxides for supercapacitors: an overview

Shagufi Naz Ansari, Mohit Saraf, Zahir Abbas and Shaikh M. Mobin*

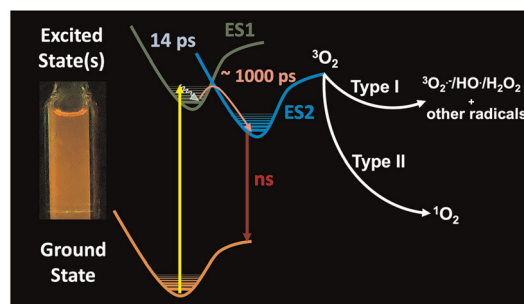


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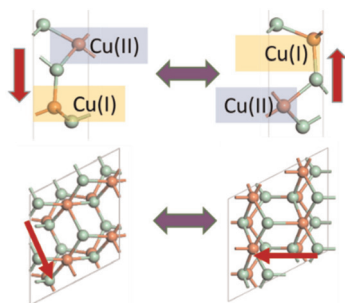
Photochemical synthesis of fluorescent Au₁₆(RGDC)₁₄ and excited state reactivity with molecular oxygen

Parimah Aminfar, Goonay Yousefalizadeh, Emily Steele, Juan Chen, Gang Zheng and Kevin G. Stamplecoskie*



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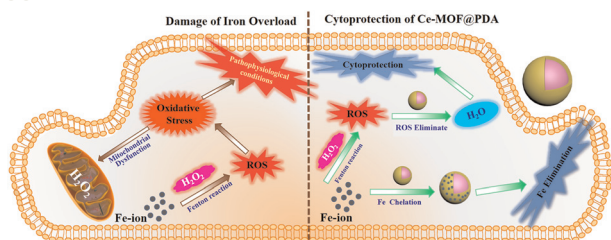


Exploitation of mixed-valency chemistry for designing a monolayer with double ferroelectricity and triferroic couplings

Yaxin Gao, Sha Li, Xiao Cheng Zeng* and Menghao Wu*

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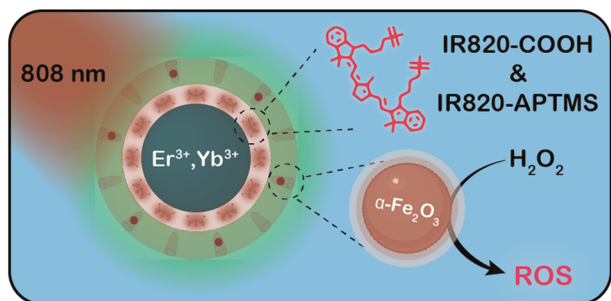
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A Ce-MOF@polydopamine composite nanozyme as an efficient scavenger for reactive oxygen species and iron in thalassemia disease therapy

Yan Duan, Ling Liang, Fanggui Ye* and Shulin Zhao*

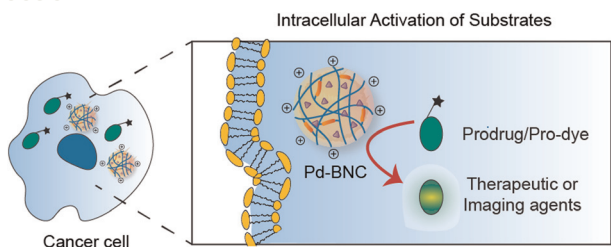
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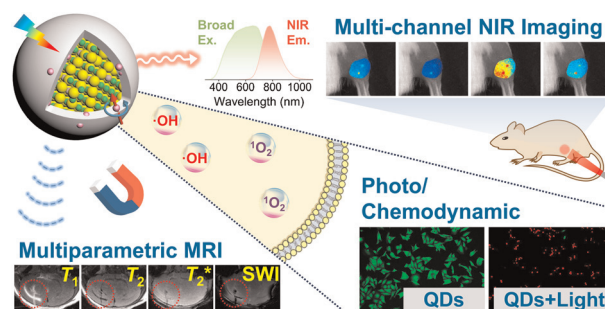


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Building in biologically appropriate multifunctionality in aqueous copper indium selenide-based quantum dots

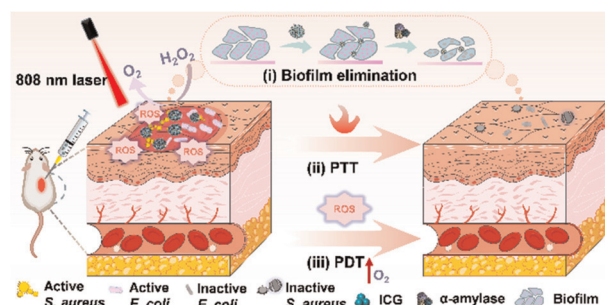
Xiling Yang, Yun Li, Peisen Zhang,* Lingfei Guo, Xiaoqi Li, Yiyang Shu, Kuiyu Jiang, Yi Hou, Lihong Jing* and Mingxia Jiao*



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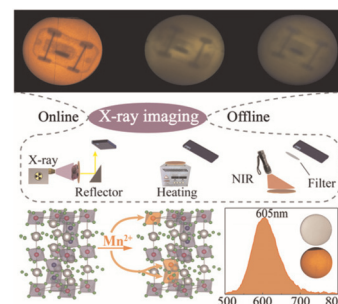
Lei Li, Guoqing Zhu, Wencheng Xu, Man Wang, Yulin Xie, Zixian Bao, Manlin Qi,* Minghong Gao* and Chunxia Li*



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All-inorganic Mn²⁺-doped metal halide perovskite crystals for the late-time detection of X-ray afterglow imaging

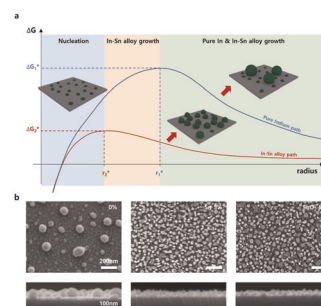
Sijian Wu, Lifang Yuan, Geng Chen, Chaoyue Peng and Yahong Jin*



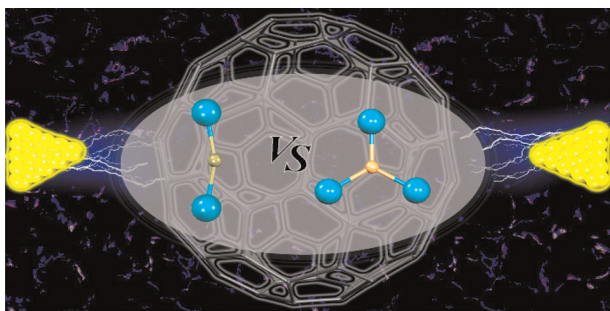
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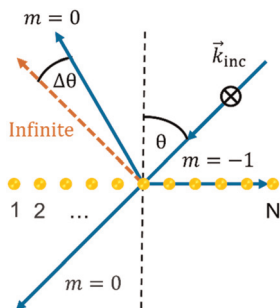
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Structure and single-molecule conductance of two endohedral metallofullerenes with large C₈₈ cage

Wang Li, Fayu Qu, Linshan Liu, Zhuxia Zhang, Chaofeng Zheng, Lin Wang,* Chunru Wang and Taishan Wang*

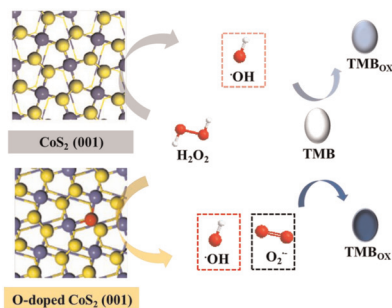
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Rayleigh anomaly induced phase gradients in finite nanoparticle chains

Lior Michaeli,* Ofer Doron, Yakir Hadad, Haim Suchowski and Tal Ellenbogen

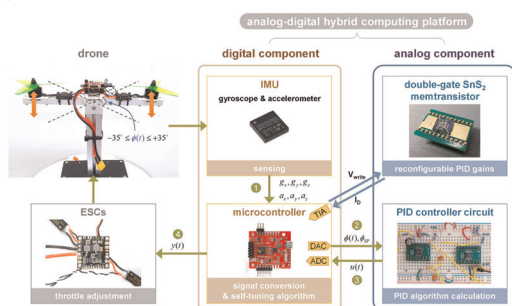
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Shufeng Liang, Tingyu Chen, Yun Zhao, Yali Ren, Miaomiao Li, Dongtao Lu, Junhao Wang, Yan Dai* and Yujing Guo*

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A self-tuning PID controller based on analog-digital hybrid computing with a double-gate SnS₂ memtransistor

Shania Rehman, Muhammad Farooq Khan, Hee-Dong Kim and Sungho Kim*

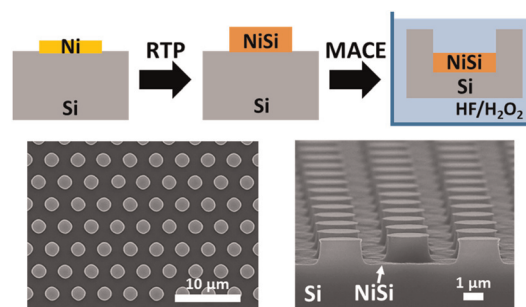


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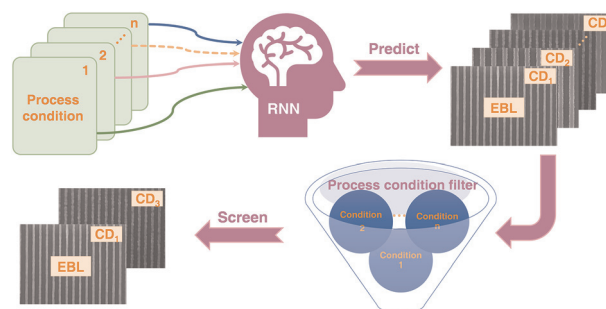
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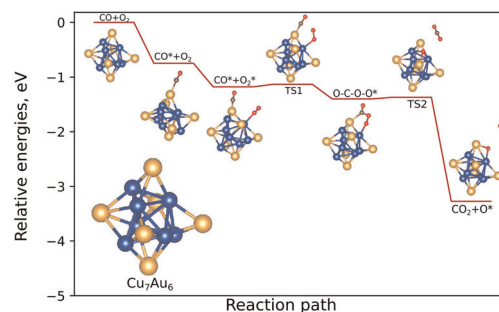
Rongbo Zhao, Xiaolin Wang, Ziyu Hu, Hong Xu* and Xiangming He*



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Ultralow reaction barriers for CO oxidation in Cu–Au nanoclusters

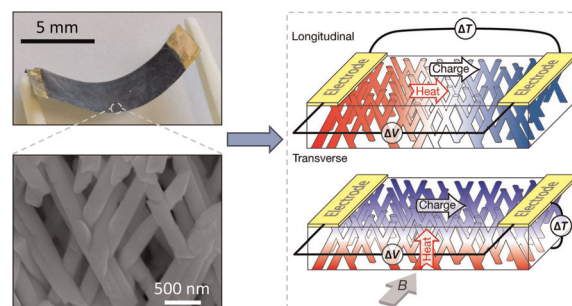
Anastasiia A. Mikhailova,* Sergey V. Lepeshkin, Vladimir S. Baturin, Alexey P. Maltsev, Yurii A. Uspenskii and Artem R. Oganov



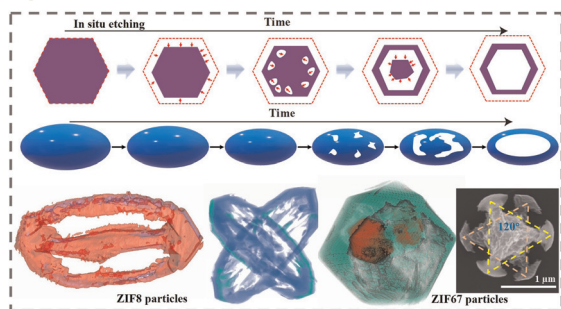
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Polycrystalline bismuth nanowire networks for flexible longitudinal and transverse thermoelectrics

Luc Piraux,* Nicolas Marchal, Pascal Van Velthem, Tristan da Câmara Santa Clara Gomes, Etienne Ferain, Jean-Paul Issi and Vlad-Andrei Antohe*



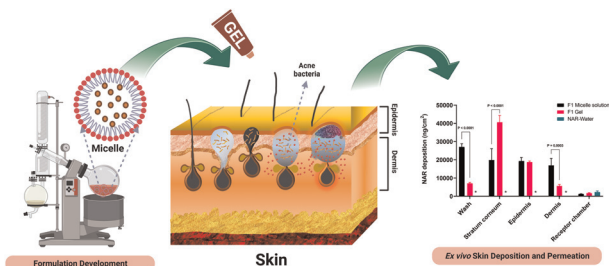
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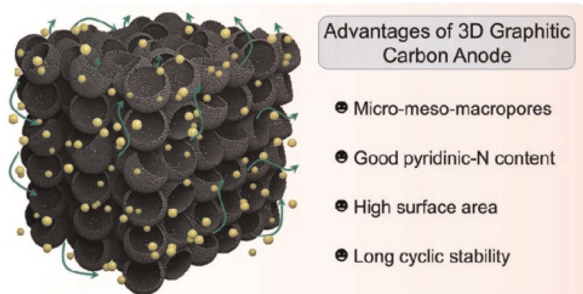
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Nanotechnology and narasin: a powerful combination against acne

Fatima Abid, Bhumika Savaliya, Ankit Parikh, Sangseo Kim, Marzieh Amirmostofian, Laura Cesari, Yunmei Song, Stephen W. Page, Darren J. Trott and Sanjay Garg*

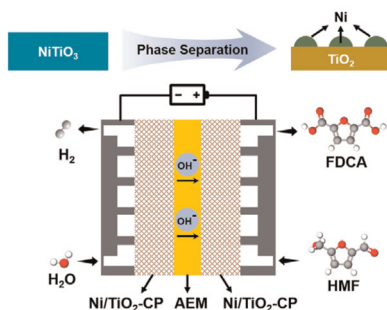
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Metal–organic framework derived inverse opal type 3D graphitic carbon for highly stable lithium-ion batteries

Nitish Kumar, Prakash Kumar Pathak and Rahul R. Salunkhe*

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Ni/TiO₂ heterostructures derived from phase separation for enhanced electrocatalysis of hydrogen evolution and biomass oxidative upgrading in anion exchange membrane electrolyzers

Geng Zhang, Rui Yu, Yu-Qi Zhou, Wang-Ting Lu and Fei-Fei Cao*

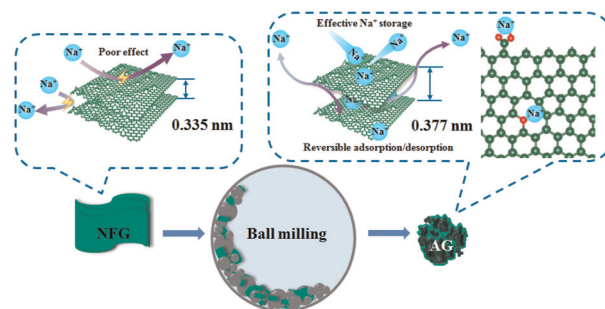


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Activating graphite with defects and oxygenic functional groups to boost sodium-ion storage

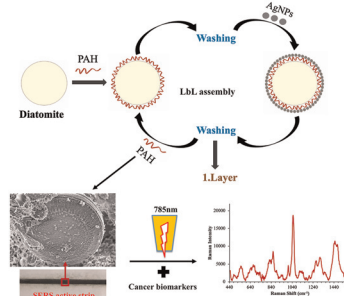
Juanxia Ding, Xiaozhong Zhou,* Jian Gao* and Ziqiang Lei



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Layer-by-layer coating of natural diatomite with silver nanoparticles for identification of circulating cancer protein biomarkers using SERS

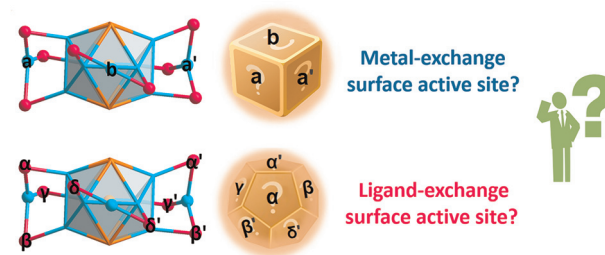
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Probing the surface-active sites of metal nanoclusters with atomic precision: a case study of Au₅Ag₁₁

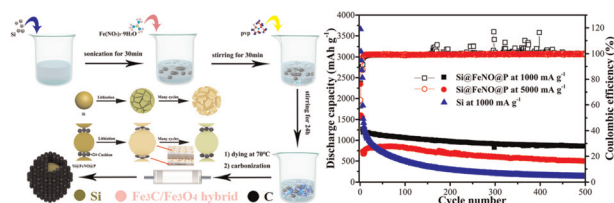
Yaoyao Cao, Ying Xu, Honglei Shen, Peiyao Pan, Xuejuan Zou,* Xi Kang* and Manzhou Zhu*



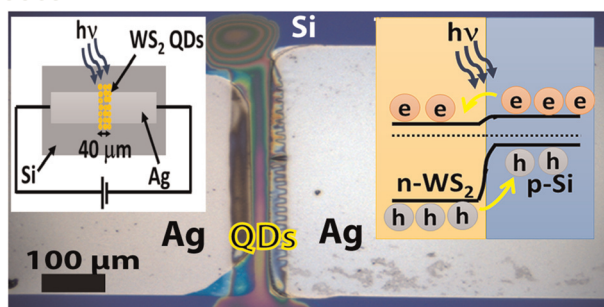
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High-performance Si@C anode for lithium-ion batteries enabled by a novel structuring strategy

Jian Song, Shengfeng Ke, Pengkai Sun, Dian Yang, Chengang Luo, Qinghua Tian,* Cui Liang and Jizhang Chen



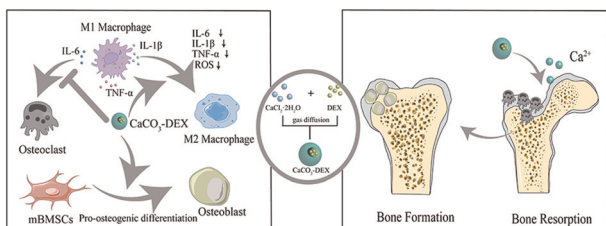
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A fully printed ultrafast Si/WS₂ quantum dot photodetector with very high responsivity over the UV to near-infrared region

Subhankar Debnath, Koushik Ghosh, M. Meyyappan and P. K. Giri*

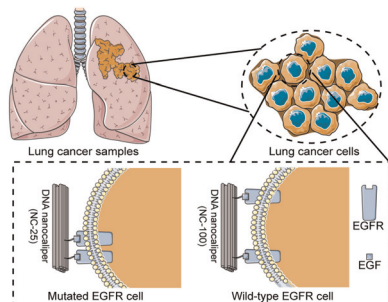
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Ca-DEX biomimetic mineralization-induced nuts reverse oxidative stress and bone loss in rheumatoid arthritis

Yaqing Liu, Zongzhang Wang, Yiru Wang, Yushuo Feng,* Mengjiao Xu, Xiaoqian Ma, Qianqian Shi, Huaping Deng, Fangfang Ren, Yong Chen* and Hongmin Chen*

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Rapid determination of the presence of EGFR mutations with DNA-based nanocalipers

Kexin Zhang, Zhicheng Huang, Yadong Wang, Jianchao Xue, Naixin Liang* and Zewen Wei*

