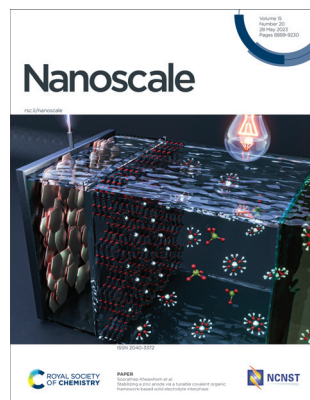


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ISSN 2040-3372 CODEN NANOHL 15(20) 8889–9230 (2023)



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See Soorathep Kheawhom  
et al., pp. 9003–9013.

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### Progress and perspectives of solution-processed kesterite absorbers for photovoltaic applications

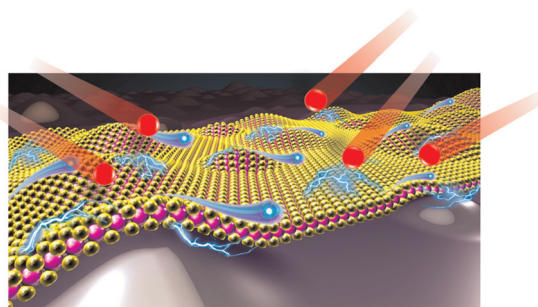
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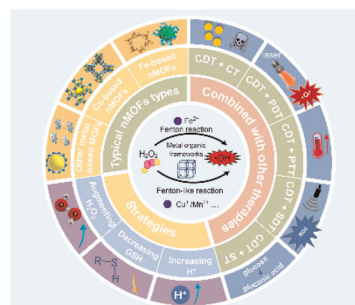


## MINIREVIEW

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## Recent advances in nanoscale metal–organic frameworks for cancer chemodynamic therapy

Muse Ji, Hongbing Liu, Jingxin Gou, Tian Yin, Haibing He, Yu Zhang\* and Xing Tang

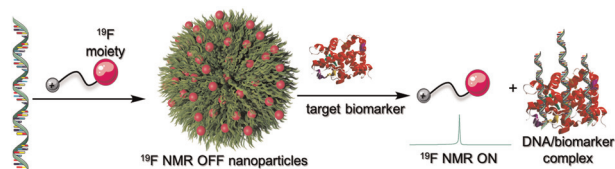


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<sup>19</sup>F NMR ON/OFF nanoparticles: a universal approach for the specific detection of DNA-binding cancer biomarkers

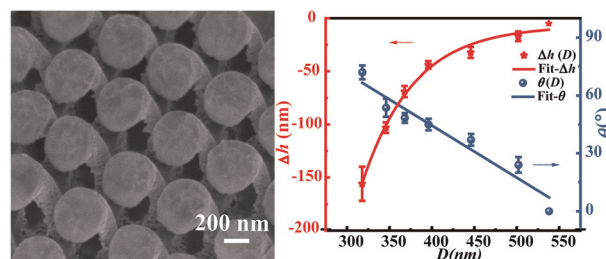
Devanathan Perumal, Jithu Krishna, Kaloos S. Harikrishnan, Gowtham Raj, Jemshiya Kalathil, Minu Saji, Kavyasree M. and Reji Varghese\*



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## Fabricating 3D freestanding metamaterials on elastic substrates via the shadow metal-sputtering and plastic deformation

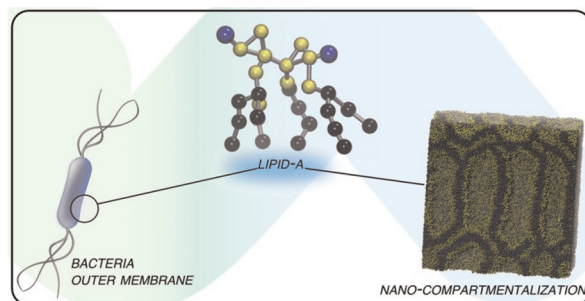
Giushun Zou, Jian Ou-Yang, Xiaoyi She, Yang Shen and Chongjun Jin\*



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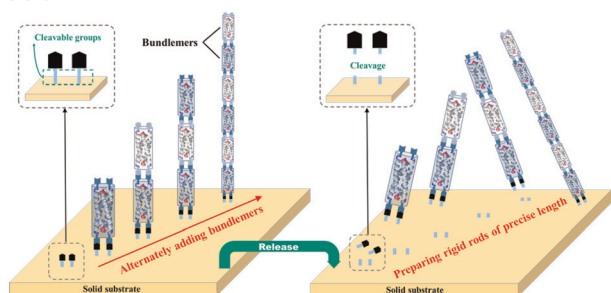
## Bacterial lipids drive compartmentalization on the nanoscale

Antonio De Nicola, Costanza Montis,\* Greta Donati, Antonio Molinaro,\* Alba Silipo, Arianna Balestri, Debora Berti, Flaviana Di Lorenzo, You-Liang Zhu and Giuseppe Milano\*



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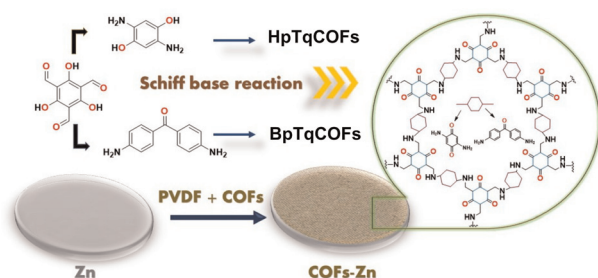


### Bottom-up on-surface synthesis based on click-functionalized peptide bundles

Yanmei He, Dongdong Wu\* and Xingdong Zhang

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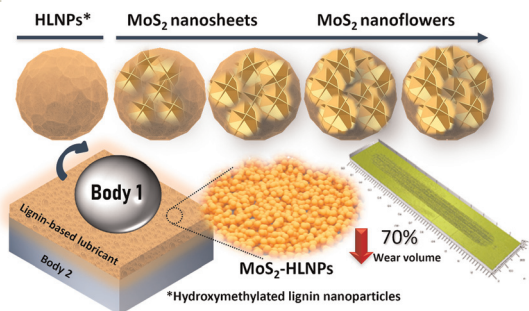
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### Stabilizing a zinc anode via a tunable covalent organic framework-based solid electrolyte interphase

Vipada Aupama, Wathanyu Kao-ian, Jinnawat Sangsawang, Gopalakrishnan Mohan, Suttipong Wannapaiboon, Ahmad Azmin Mohamad, Prasit Pattanauwat, Chakrit Sriprachuabwong, Wei-Ren Liu and Soorathep Kheawhom\*

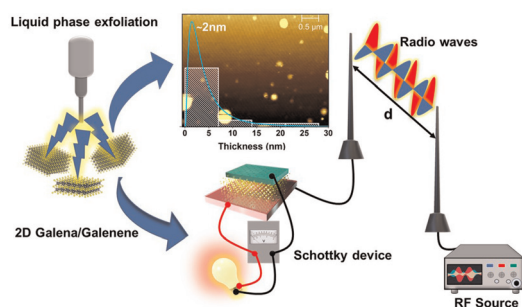
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### MoS<sub>2</sub> nanoflower-decorated lignin nanoparticles for superior lubricant properties

Lucie Lindenbeck, Björn B. Beele, Mohammad Morsali, Serhiy Budnyk, Marcella Frauscher, Jianhong Chen, Mika H. Sipponen, Adam Slabon and Bruno V. M. Rodrigues\*

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### Energy harvesting from radio waves using few-layer 2D galena (galenene)

Karthik R, Appu Kumar Singh, P R Sreeram,\* Preeti Lata Mahapatra, Douglas S. Galvao\* and Chandra Sekhar Tiwary\*



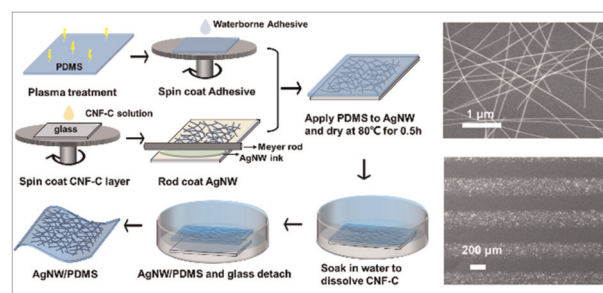


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# A simple and efficient transfer method for fabricating stretchable AgNW patterns on PDMS using carboxylated cellulose nanofibers as a sacrificial layer

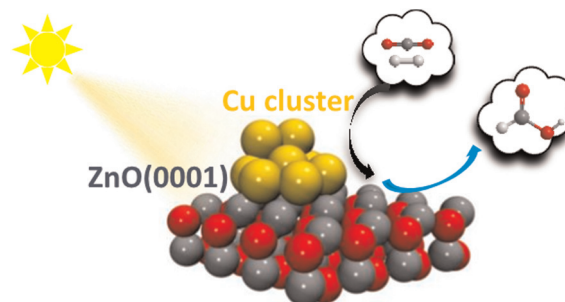
Jianzhong Wang, Kaiqing Wang and Fei Xiao\*



9040

# A combined theoretical and experimental investigation on the photocatalytic hydrogenation of CO<sub>2</sub> on Cu/ZnO polar surface

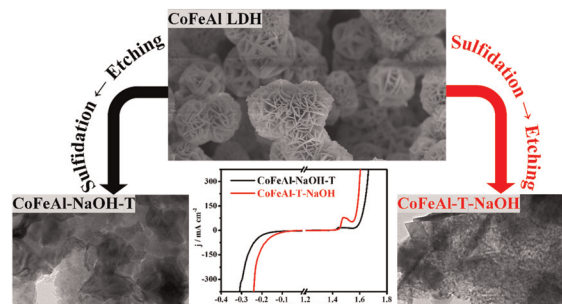
Han Xiao, Yihong Lian, Shiduo Zhang, Minyi Zhang,\* Jiye Zhang\* and Chunsen Li\*



9049

# Sulfidation and NaOH etching in CoFeAl LDH evolved catalysts for an efficient overall water splitting in an alkaline solution

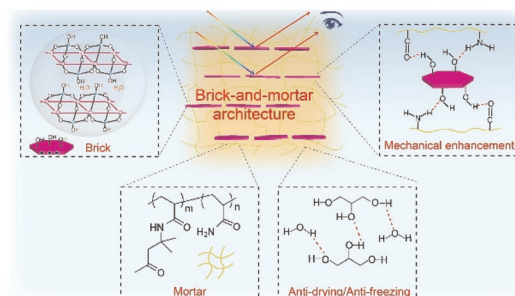
Xiaolong Deng,\* Shanshan Wang, Yi Liu, Jiafeng Cao,\* Jinzhao Huang\* and Xingwei Shi



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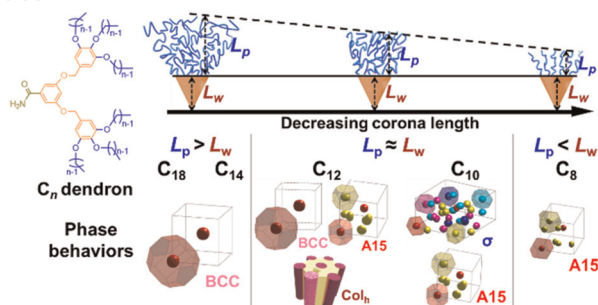
# Nacre-inspired layered composite gels with broad tunable mechanical strength and structural color for stress visualization

Yunpeng Wang, Xinyu Kan, Yaru Liu, Jie Ju\* and Xi Yao\*



## PAPERS

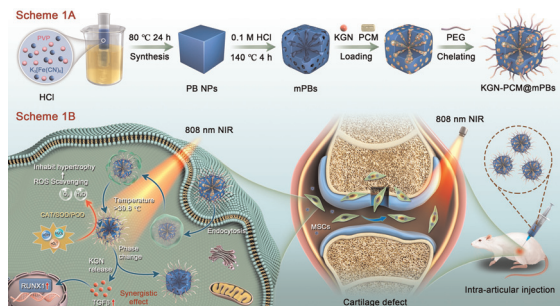
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### Impact of peripheral alkyl chain length on mesocrystal assemblies of G2 dendrons

Taesuk Jun, Hyunjun Park, Junsu Kim, Wooseop Lee, Hyungju Ahn, Woo-Dong Jang,\* Byeongdu Lee\* and Du Yeol Ryu\*

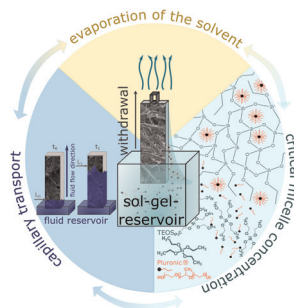
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### Near-infrared light-controlled kartogenin delivery of multifunctional Prussian blue nanocomposites for cartilage defect repair

Zunhan Liu, Zhenyu Luo, Haoda Yu, Enze Zhao, Junfeng Guo, Ping Mou, Anjing Chen, Jiali Chen, Zongke Zhou\* and Weinan Zeng\*

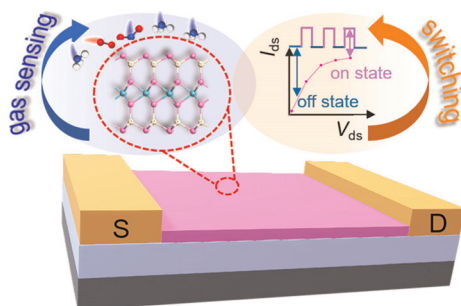
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### Nanoscale pores introduced into paper via mesoporous silica coatings using sol-gel chemistry

J. J. Mikolei, D. Richter, R. Pardehkhorrani, C. Helbrecht, S. Schabel, T. Meckel, M. Biesalski, M. Ceolin and A. Andrieu-Brunsen\*

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Mi-Mi Dong, Hang He, Chuan-Kui Wang\* and Xiao-Xiao Fu\*

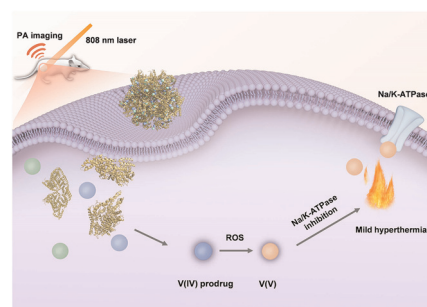


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# Stimuli-responsive ultra-small vanadate prodrug nanoparticles with NIR photothermal properties to precisely inhibit Na/K-ATPase for enhanced cancer therapy

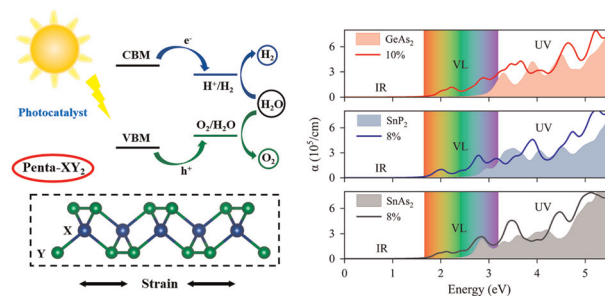
Yifan Li, Jian Wang, Yujing Tang, Sheng Lu, Yitong Lv, Wenzhe Li, Ming Zhang\* and Yingjie Yu\*



9123

# Prediction of 2D IV–V semiconductors: flexible monolayers with tunable band gaps and strong optical absorption as water-splitting photocatalysts

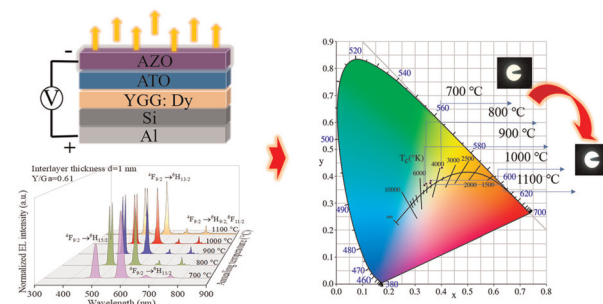
Luqi Liu, Xuxin Kang, Shan Gao and Xiangmei Duan\*



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# Bright white electroluminescence from polycrystalline dysprosium-doped yttrium gallium garnet nanofilms fabricated by atomic layer deposition on silicon

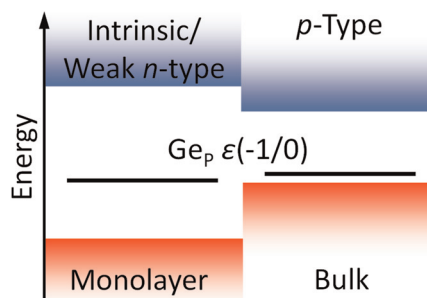
Zhimin Yu, Zejun Ye, Yang Yang\* and Jiaming Sun\*



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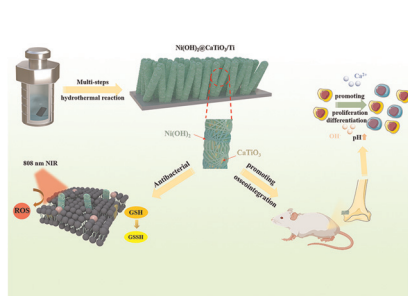
# Strong interlayer coupling and unusual antisite defect-mediated p-type conductivity in GeP<sub>x</sub> (x = 1, 2)

Guoxujia Chen, Weiwei Meng,\* Xiaoxi Guan, Peili Zhao, Shuangfeng Jia, He Zheng, Dongshan Zhao\* and Jianbo Wang\*



## PAPERS

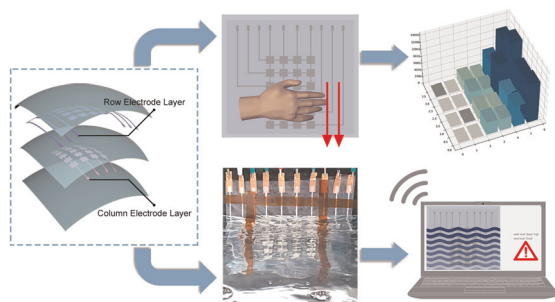
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Zheng Liu, Hong Ding, Miaomiao He, Yulin Jiang, Lin Qi, Meixuan Du, Jing Wang, Yubao Li, Limin Liu, Ganjun Feng\* and Li Zhang\*

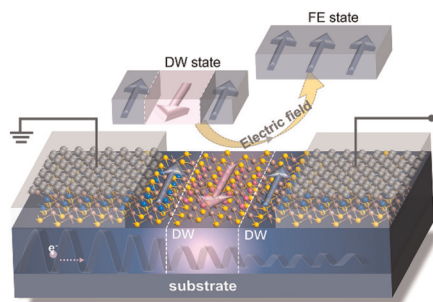
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### A highly adaptive real-time water wave sensing array for marine applications

Hanyun Liu, Yu Xiao, Yun Xu,\* Shaochun Zhang, Changming Qu and Yuanlong Zhang

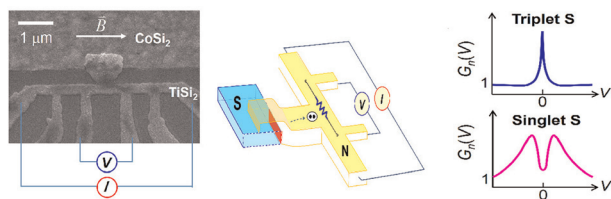
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Minzhi Dai, Zhiyuan Tang, Xin Luo\* and Yue Zheng\*

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### Tuning interfacial two-component superconductivity in $\text{CoSi}_2/\text{TiSi}_2$ heterojunctions via $\text{TiSi}_2$ diffusivity

Shao-Pin Chiu, Vivek Mishra, Yu Li, Fu-Chun Zhang, Stefan Kirchner\* and Juhn-Jong Lin\*



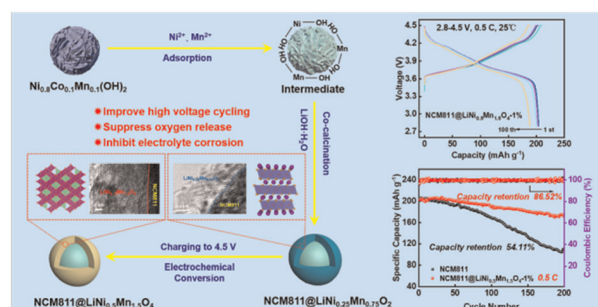


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### *In situ* epitaxial growth and electrochemical conversion of $\text{LiNi}_{0.5}\text{Mn}_{1.5}\text{O}_4$ thin layer on Ni-rich cathode materials for high voltage lithium-ion batteries

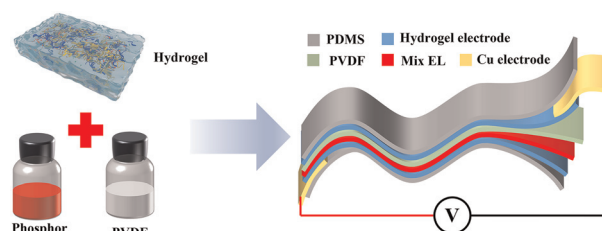
Cong Li, Chun Liu, Honglei Liu, Chengzhi Hu, Yong Wu, Afei Li, Zhangxian Chen, Zeheng Yang\* and Weixin Zhang\*



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### Flexible multi-color electroluminescent devices with a high transmission conducting hydrogel and an organic dielectric

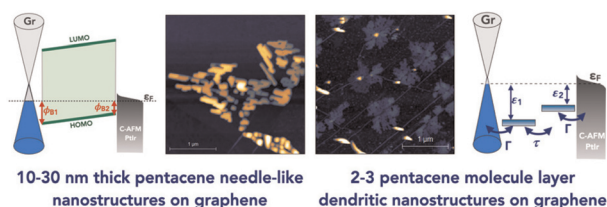
Yongjie Yu, Kun He, Haibo Xu, Zhen Xiao,\* Liang Chen, Shiqing Xu and Gongxun Bai\*



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### Nanoscale electronic transport at graphene/pentacene van der Waals interfaces

Michel Daher Mansour, Jacopo Oswald, Davide Beretta, Michael Stiefel, Roman Furrer, Michel Calame\* and Dominique Vuillaume\*



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### Dual-inhibition of lactate metabolism and Prussian blue-mediated radical generation for enhanced chemodynamic therapy and antimetastatic effect

Wenting Li, Shikai Liu, Yangyang Zhang, Jialing Zhou, Rumin Li, Shili Gai,\* Lei Zhong\* and Piaoping Yang\*

