

# Journal of Materials Chemistry B

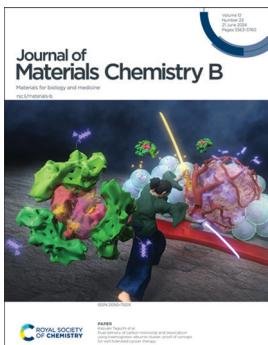
Materials for biology and medicine

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## IN THIS ISSUE

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### Cover

See Kazuaki Taguchi et al.,  
pp. 5600–5608.  
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Kazuaki Taguchi from  
*J. Mater. Chem. B*,  
2024, 12, 5600.

## EDITORIAL

5571

### An introduction to injectable hydrogels

Julieta I. Paez\* and Khoon S. Lim \*

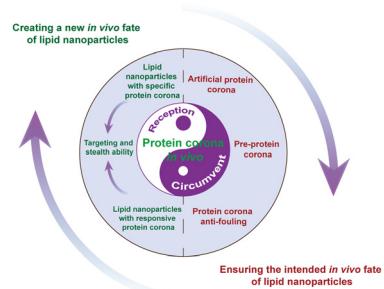


## PERSPECTIVE

5573

### Looking back, moving forward: protein corona of lipid nanoparticles

Yue Gao, Yeqi Huang, Chuanyu Ren, Peiwen Chou, Chuanbin Wu, Xin Pan, Guilan Quan\* and Zhengwei Huang\*



# Environmental Science: Atmospheres

GOLD  
OPEN  
ACCESS

## Connecting communities and inspiring new ideas



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Fundamental questions  
Elemental answers



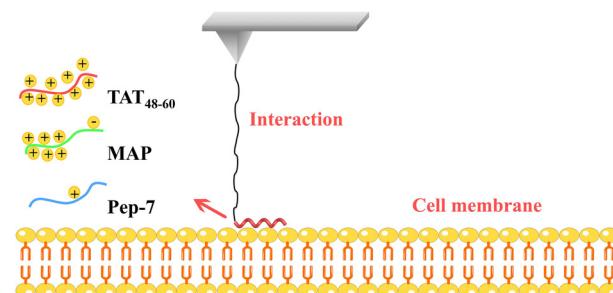
Registered charity number: 207890

## COMMUNICATIONS

5589

## Revealing the dynamic mechanism of cell-penetrating peptides across cell membranes at the single-molecule level

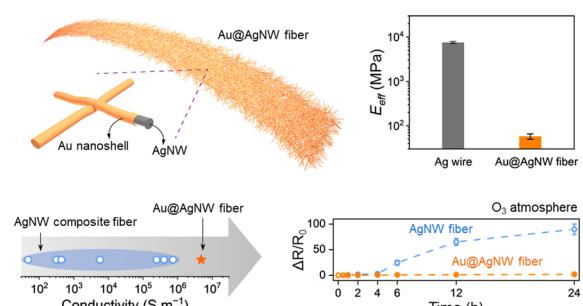
Yuhang Zhai, Siying Li, Hui Wang and Yuping Shan\*



5594

## High-performing fiber electrodes based on a gold-shelled silver nanowire framework for bioelectronics

Kailin Zhang, Chengqiang Tang, Sihui Yu, Hang Guan, Xiao Sun, Mingjie Cao, Songlin Zhang, Xuemei Sun\* and Huisheng Peng

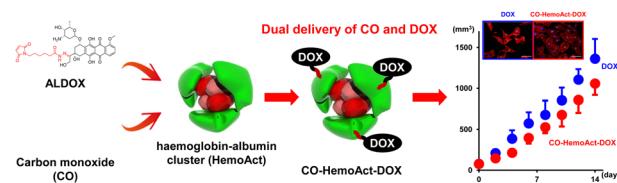


## PAPERS

5600

## Dual delivery of carbon monoxide and doxorubicin using haemoglobin–albumin cluster: proof of concept for well-tolerated cancer therapy

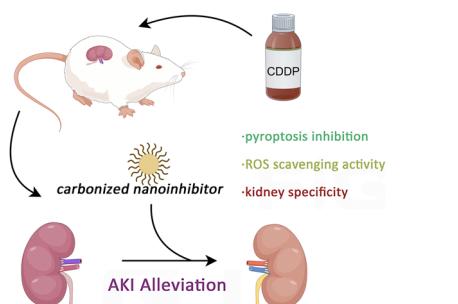
Chihiro Ito, Kazuaki Taguchi,\* Taiga Yamada, Kengo Hanaya, Yuki Enoki, Takeshi Sugai, Teruyuki Komatsu and Kazuaki Matsumoto



5609

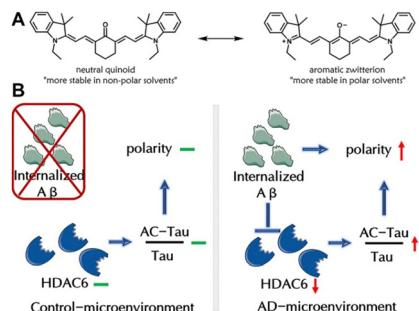
## Targeted inhibition of pyroptosis via a carbonized nanoinhibitor for alleviating drug-induced acute kidney injury

Yanjun Ji, Huan Wang,\* Xinchen Liu, Zitong Zhu, Anjun Song, Li Chen and Jinsong Ren\*



## PAPERS

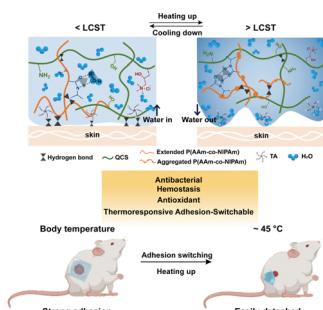
5619



### A ratiometric fluorescent probe revealing the abnormality of acetylated tau by visualizing polarity in Alzheimer's disease

Panpan Sun, Hai-Chao Chen, Wenting Guo, Zefan Zhang, Shihao Sun, Ningshuang Gao, Yu-Hong Jing\* and Baodui Wang\*

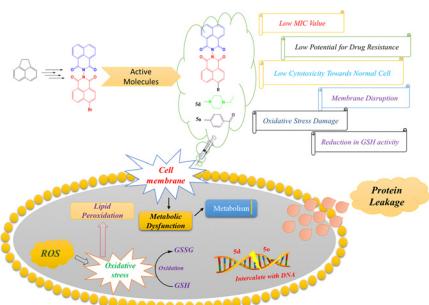
5628



### An adhesion-switchable hydrogel dressing for painless dressing removal without secondary damage

Zhilong Yu, Weiqiang Huang, Fei Wang, Xuan Nie, Guang Chen, Lei Zhang, Ai-Zong Shen,\* Ze Zhang,\* Chang-Hui Wang\* and Ye-Zi You\*

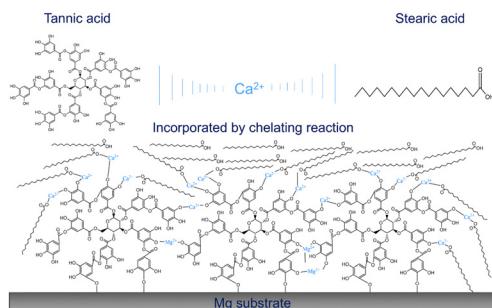
5645



### Bacterial cell death to overcome drug resistance with multitargeting bis-naphthalimides as potent antibacterial agents against *Enterococcus faecalis*

Saurabh Gupta, Vijay Luxami and Kamaldeep Paul\*

5661



### Metal–organic complex coating for enhanced corrosion control and biocompatibility on biodegradable magnesium alloy for orthopaedic implants

Jiacheng Wang, Zhenglong Dou, Li Xia and Nan Huang\*

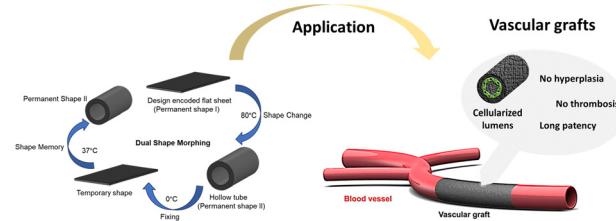


## PAPERS

5678

## Design-encoded dual shape-morphing and shape-memory in 4D printed polymer parts toward cellularized vascular grafts

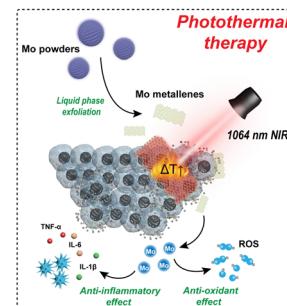
Saswat Choudhury, Akshat Joshi, Vageesh Singh Baghel, G. K. Ananthasuresh, Sonal Asthana, Shervanthi Homer-Vanniasinkam and Kaushik Chatterjee\*



5690

## Liquid exfoliation of molybdenum metallocenes for non-inflammatory photothermal therapy of tumors

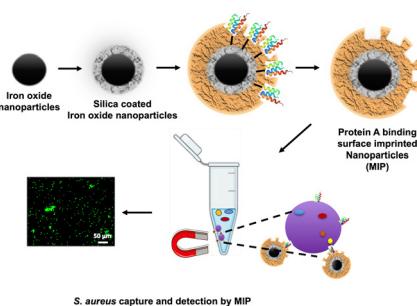
Chenxin Lu, Xiang Huang, Zhaoying Jin, Junwei Deng, Zhengbao Zha\* and Zhaohua Miao\*



5699

## Rationally designed protein A surface molecularly imprinted magnetic nanoparticles for the capture and detection of *Staphylococcus aureus*

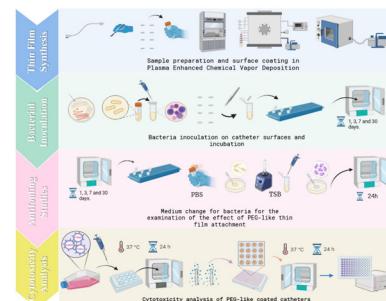
Kritika Narula, Soumya Rajpal, Snehasis Bhakta, Senthilguru Kulanthaivel and Prashant Mishra\*



5711

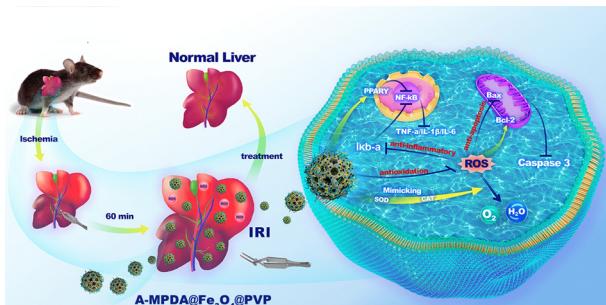
## Long-term antifouling surfaces for urinary catheters

Mustafa Tüfekçi, Sena Hamarat, Tuğba Demir Çalışkan, Hatice Ferda Özgür, Ahmet Ersin Meydan, Julide Sedef Göçmen, Ebru Evren, Mehmet İlker Gökçe and Hilal Goktas\*



## PAPERS

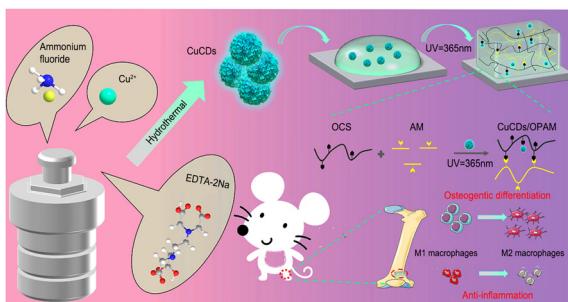
5722



## Activation of the PPAR $\gamma$ /NF- $\kappa$ B pathway by A-MPDA@Fe<sub>3</sub>O<sub>4</sub>@PVP via scavenging reactive oxygen species to alleviate hepatic ischemia-reperfusion injury

Dong Mo, Wei Cui, Linxin Chen, Juanjuan Meng, Yuting Sun, Kaiyong Cai, Jixi Zhang,\* Jianrong Zhang,\* Kui Wang\* and Xiaohe Luo\*

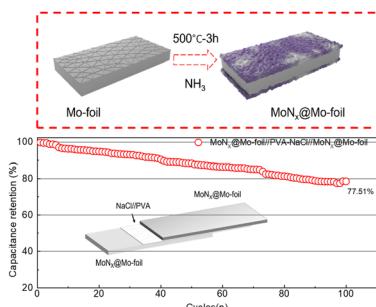
5734



## Copper-based carbon dots modified hydrogel with osteoimmunomodulatory and osteogenesis for bone regeneration

Xu Wei, Chang Wan, Xu Peng, Yihao Luo, Mengyue Hu, Can Cheng, Shaoxiong Feng and Xixun Yu\*

5749



## Biodegradable MoN<sub>x</sub>@Mo-foil electrodes for human-friendly supercapacitors

Hongjia Ren, Hongru Zhao, Muhammad Sufyan Javed,\* Sajid Hussain Siyal, Xinze Zhang, Xiaofeng Zhang, Awais Ahmad, Iftikhar Hussain, Mohamed A. Habila and Weihua Han\*

