

# Journal of Materials Chemistry B

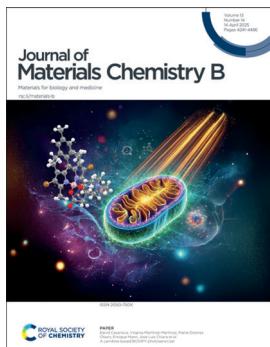
Materials for biology and medicine

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### Cover

See David Casanova,  
Virginia Martínez-Martínez,  
María-Dolores Chiara,  
Enrique Mann, Jose Luis  
Chiara *et al.*,  
pp. 4330–4340.  
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## EDITORIAL

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### Introduction to materials chemistry of fluorescence bioimaging

Sijie Chen,\* Tony D. James,\* Apurba Lal Koner\* and Ben Zhong Tang\*

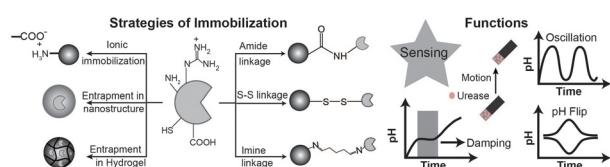


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Shashikumar Haranal, Vinay Ambekar Ranganath and Indrajit Maity\*



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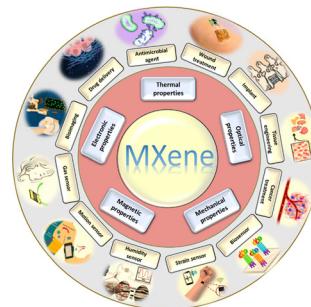


## REVIEWS

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**MXenes and MXene-based composites for biomedical applications**

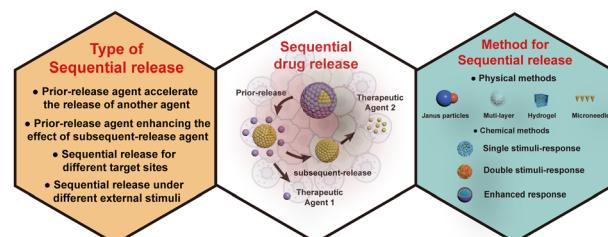
Taposhree Dutta, Parvej Alam\* and Satyendra Kumar Mishra\*



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Siyuan Luo, Chenyu Zhao, Rong Wang and Daocheng Wu\*

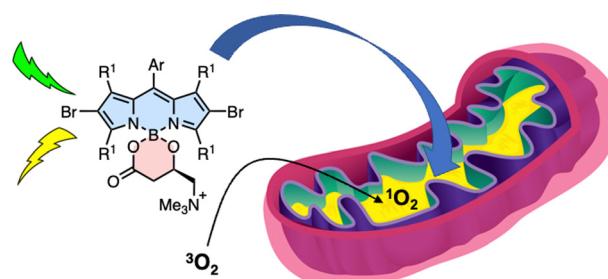


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Xiaoning Sun, Dengfeng Lu, Jing Cheng, Zixin Shu, Chunmei Ding,\* Meng Qin\* and Jianshu Li\*



## PAPERS

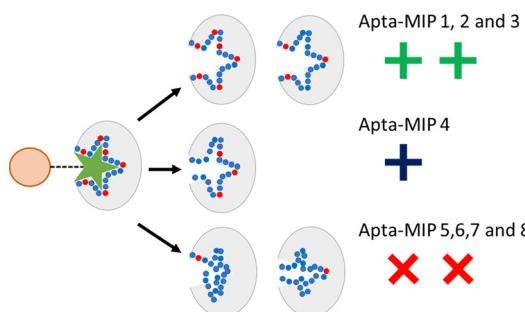
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### Insights into nano- $\text{ZrO}_2$ reinforced self-antibacterial $\text{Ti}-3\text{Cu}$ composites via laser metal deposition: content-optimized bioactive nano- $\text{ZrO}_2$ integrated for wear resistance, *in vitro* antibacterial and biological properties

Ming-Chun Zhao, Zhiyong Shi, Xin Li, Chaochun Zhao, Wenze Wang,\* Dengfeng Yin and Andrej Atrens

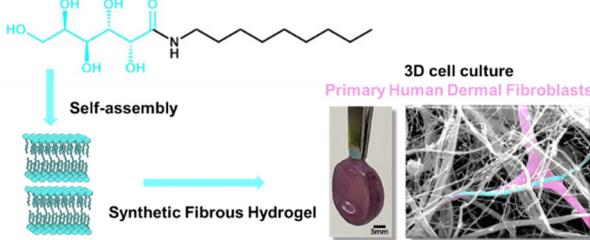
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### Incorporation of polymerizable linkers into aptamers for high-affinity nanoscale molecularly imprinted polymer hybrids: analysis of positional selectivity

Mark V. Sullivan, Francia Allabush, Paula M. Mendes, James H. R. Tucker and Nicholas W. Turner\*

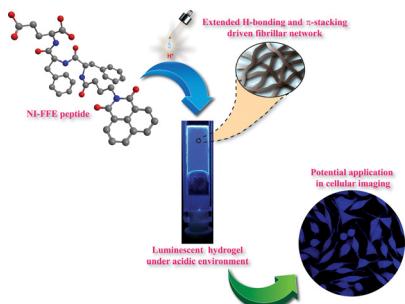
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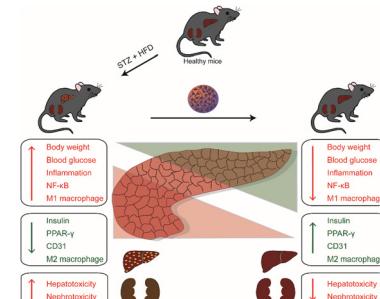


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**A glucose-responsive alginate-based hydrogel laden with modified GLP-1 and telmisartan ameliorates type 2 diabetes and reduces liver and kidney toxicities**

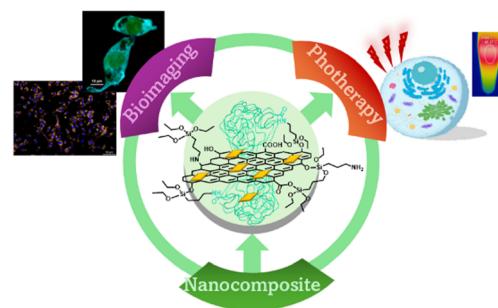
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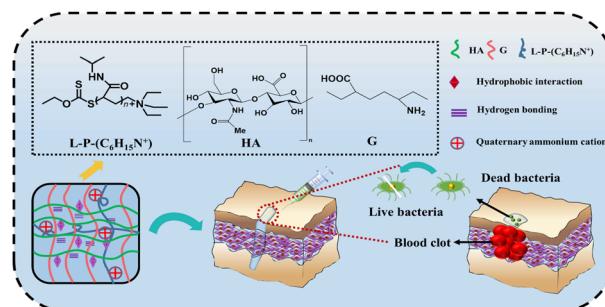
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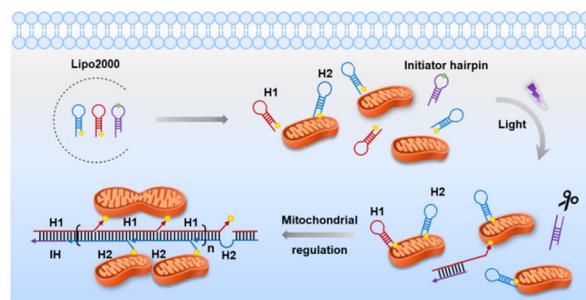
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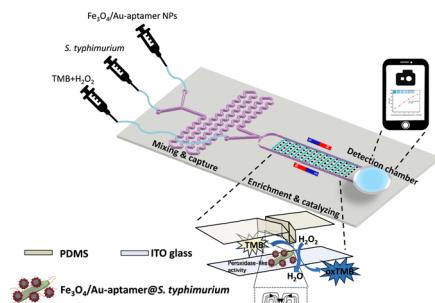
**Controllable mitochondrial regulation based on photo-triggered DNA circuitry**

Songyuan Du, Longyi Zhu, Xinyi Ge, Shengyuan Deng\* and Kewei Ren\*



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