

# Journal of Materials Chemistry B

Materials for biology and medicine

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### Cover

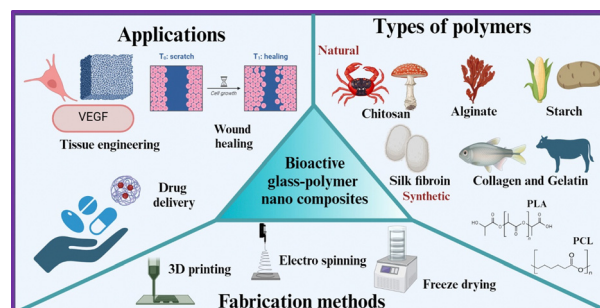
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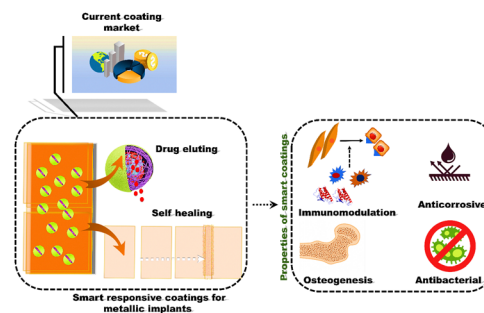
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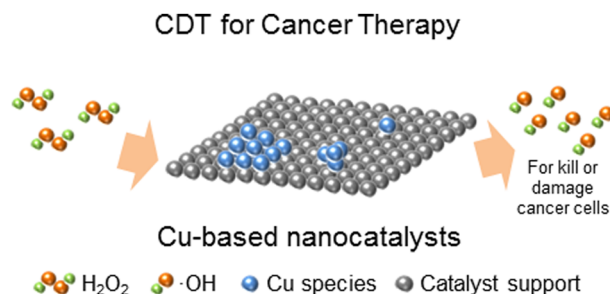


## REVIEWS

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## Recent advances in chemotherapy for cancer therapy over Cu-based nanocatalysts

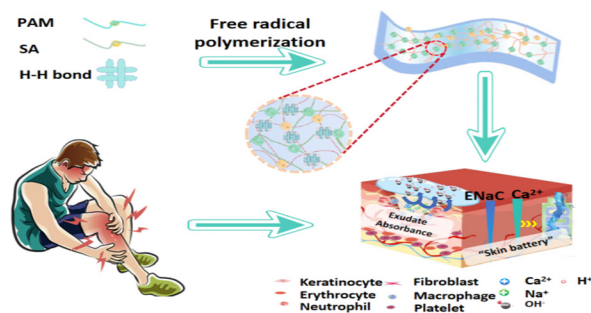
Meng-Yu Wang and Zhi-Xin Li\*



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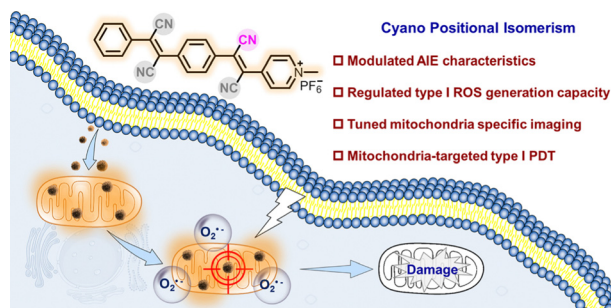
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Yukun Yan, Yuanyuan Chen, Hanqing Dai,\*  
Wanlu Zhang\* and Ruiqian Guo\*

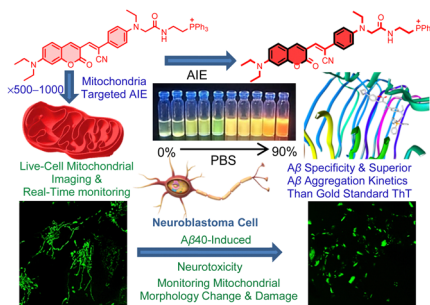
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## The cyano positional isomerism strategy for constructing mitochondria-targeted AIEgens with type I reactive oxygen species generation capability

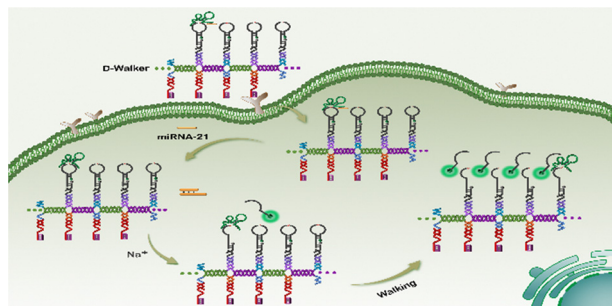
Jiabao Zhuang, Quan Pan, Chunli Zhou, Ziyang Cai,  
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A mitochondria targeting, *de novo* designed, aggregation-induced emission probe for selective detection of neurotoxic amyloid- $\beta$  aggregatesTapas Bera, Aniruddha Mondal, Samiran Kar,  
Ayan Mukherjee, Somenath Banerjee and Samit Guha\*

## PAPERS

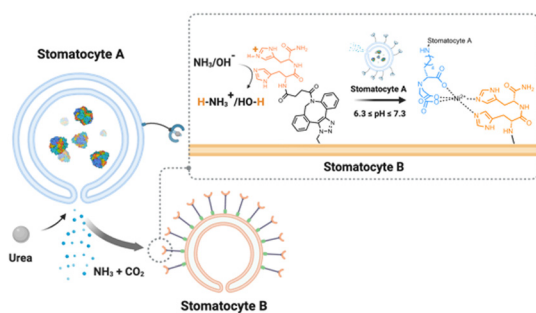
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### A DNA nanowire based-DNAzyme walker for amplified imaging of microRNA in tumor cells

Haoqi Yang, Ziyong Wu, Shujuan Sun,\* Shusheng Zhang and Pengfei Shi\*

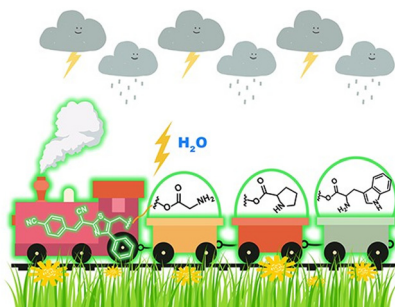
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Alexander D. Fusi, Yudong Li, Marrit M. E. Tholen, Marlo Cieraad, Lorenzo Albertazzi, Tania Patiño Padial,\* Jan C. M. van Hest\* and Loai K. E. A. Abdelmohsen\*

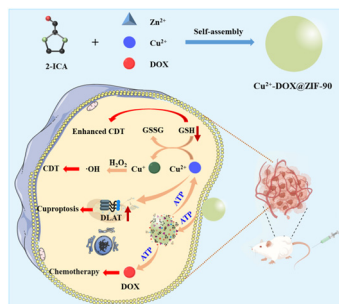
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### Photocaging of amino acids and short peptides by arylidenethiazoles: mechanism, photochemical characteristics and biological behaviour

Aleksey A. Gagarin, Artem S. Minin, Vadim A. Shevyrin, Enrico Benassi\* and Nataliya P. Belskaya\*

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### ATP-responsive copper(II)-doped ZIF-nanoparticles for synergistic cancer therapy: combining cuproptosis and chemo/chemodynamic therapy

Wei-Qun Deng, Jun-Tao Chen, Si-Si Chen, Zhi-Qing Wang, Guo-Jiang Mao, Liufang Hu, Juan Ouyang\* and Chun-Yan Li\*

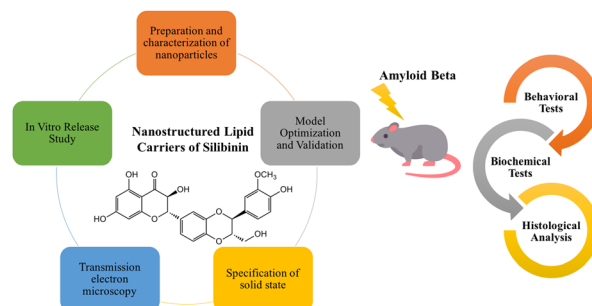


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## Development of silibinin-loaded nanostructured lipid carriers for Alzheimer's disease induced by amyloid beta in Wistar rats

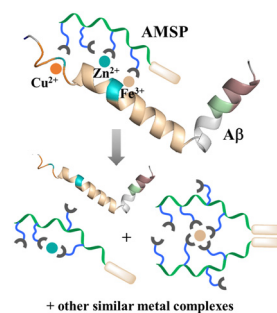
Saeideh Khodabandelou, Zeynab Nazem, Alireza Komaki, Mahdi Ramezani, Farzin Firoozian, Nafiseh Faraji, Mohammad Mehdi Mahboobian\* and Mojdeh Mohammadi\*



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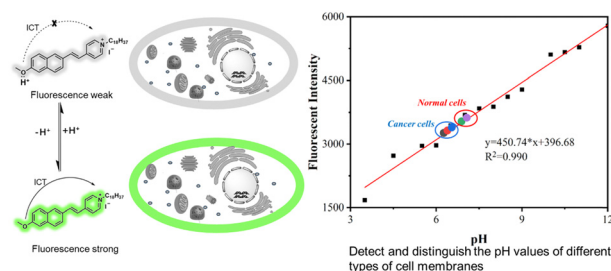
Tanmay Mondal, Sujan Kalita, Rinku Dutta and Bhubaneswar Mandal\*



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## A membrane-anchored fluorescent probe for the detection of pH in living cells and NAFLD

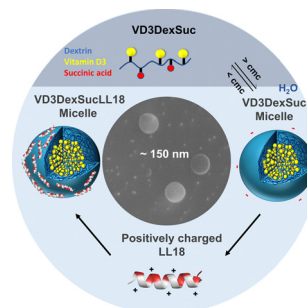
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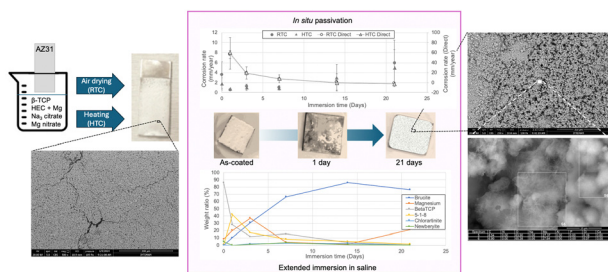
## Development of a dextrin–vitamin D3 micelle nanocarrier for the antimicrobial peptide LLKKK18 as a potential therapeutic agent for bone infections

Alexandra Machado, Miguel Gama and José Alberto Martins\*



## PAPERS

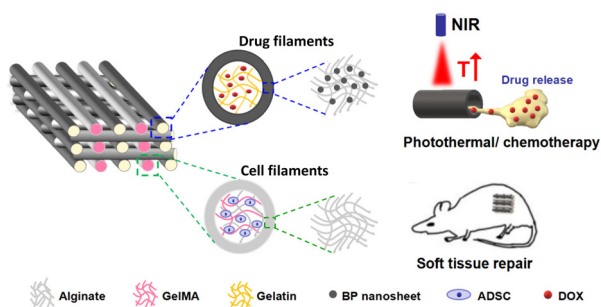
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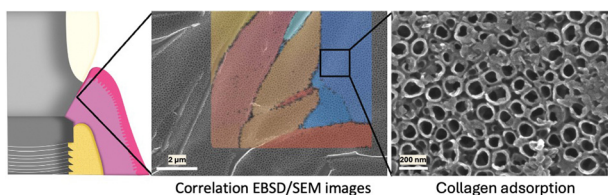
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Ping Xia, Chunyang Liu,\* Xiaoyue Wei, Jiali Guo and Yongxiang Luo\*

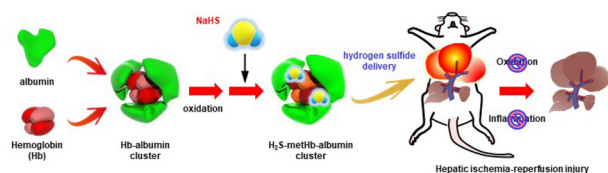
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### Hydrosulphide–methaemoglobin–albumin cluster: a hydrogen sulphide donor

Yuto Suzuki, Taiga Yamada, Yuki Enoki, Kazuaki Matsumoto, Teruyuki Komatsu and Kazuaki Taguchi\*

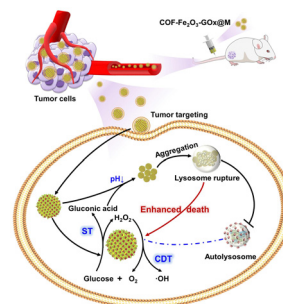


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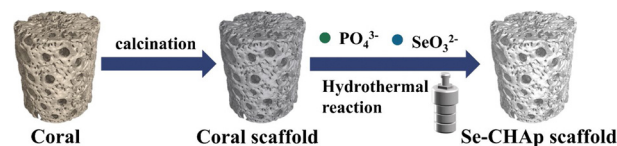
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Hui Liu, Wenxin Lv, Darambazar Gantulga and Yi Wang\*



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### Study on porous coral scaffolds containing a hydroxyapatite layer doped with selenium and their properties

Tianjing Bao, Jian Ren, Yiyuan Wu, Yang Cao,\*  
Haobo Pan\* and Chunlin Deng\*

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Lei Bai, Wenhui Yi,\* Taiyang Sun, Yilong Tian, Ping Zhang, Jinhai Si, Xun Hou and Jin Hou\*

