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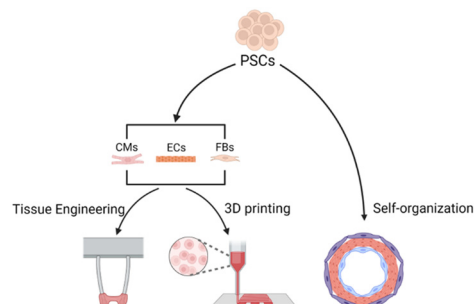


## REVIEWS

7567

## Cardiac organoid: multiple construction approaches and potential applications

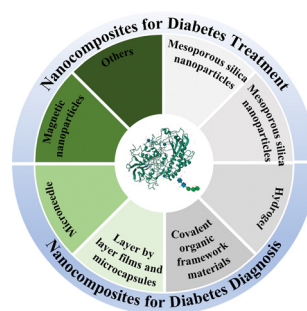
Ziyi Yang, Yajie Zhang, Jine Wang, Jingbo Yin, Zheng Wang\* and Renjun Pei\*



7582

## Recent advances in glucose-oxidase-based nanocomposites for diabetes diagnosis and treatment

Dejun Yang, Chunyan Cai, Kai Liu, Zhaolei Peng, Chunmei Yan, Jingjing Xi, Fan Xie\* and Xiaofang Li\*

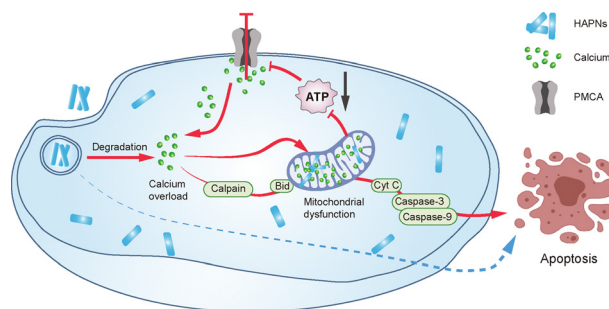


## PAPERS

7609

## Hydroxyapatite nanoparticles induced calcium overload-initiated cancer cell-specific apoptosis through inhibition of PMCA and activation of calpain

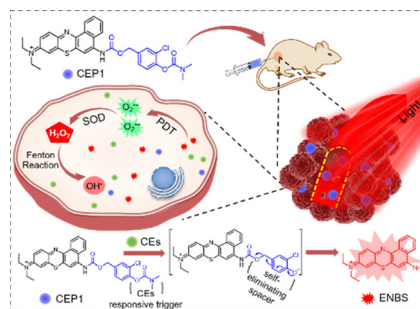
Xiulin Dong, Chunyu Zang, Yi Sun, Shuiquan Zhang, Changsheng Liu and Jiangchao Qian\*



7623

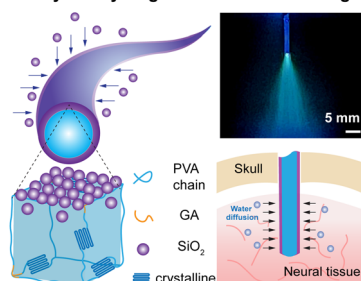
## A S-substituted Nile Blue-derived bifunctional near-infrared fluorescent probe for *in vivo* carboxylesterase imaging-guided photodynamic therapy of hepatocellular carcinoma

Beilei Wang, Yong Huang,\* Dezhi Yang,\* Jiayao Xu, Xiaohong Zhong, Shulin Zhao and Hong Liang\*



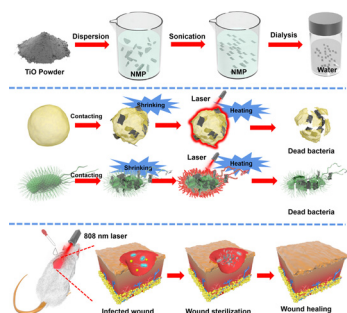
7629

## Hybrid hydrogel fiber via ALD coating

A nanoscale inorganic coating strategy for stabilizing hydrogel neural probes *in vivo*

Sizhe Huang, Sabrina Urbina Villafranca, Iyanah Mehta, Omri Yosfan, Eunji Hong, Anyang Wang, Nianqiang Wu, Qianbin Wang\* and Siyuan Rao\*

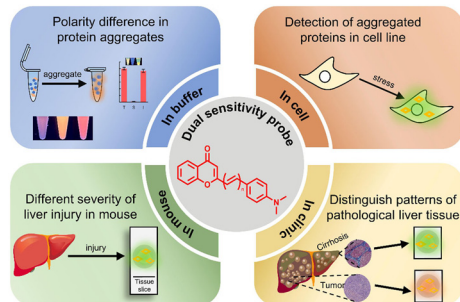
7641



## Two-dimensional TiO nanosheets with photothermal effects for wound sterilization

Wei Zhang, Hongrang Chen, Haotian Tian, Qiang Niu, Jianghao Xing, Tao Wang, Xulin Chen and Xianwen Wang\*

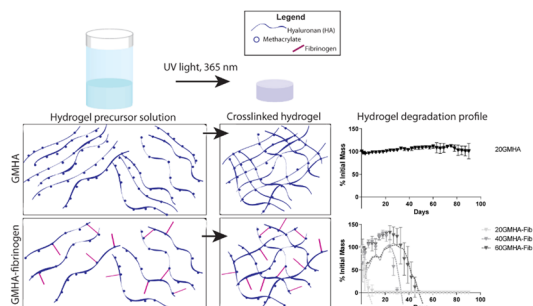
7654



## Solvatochromic sensors detect proteome aggregation in stressed liver tissues with hepatic cancer and cirrhosis

Biao Jing, Junpeng Li, Kun Guo, Lianggang Zeng, Jidong Sui, Zhenduo Zhang, Zhiming Wang, Hao Jin, Jialu Sun, Zhao Xue, Qi Zhao, Wang Wan\* and Xuepeng Dong\*

7663



## Development of a bioactive tunable hyaluronic-protein bioconjugate hydrogel for tissue regenerative applications

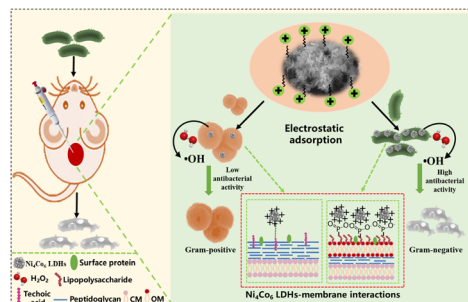
Mary Kasper, Madison Cydis, Abdullah Afridi, Bassam M. Smadi, Yuan Li, Alban Charlier, Brooke E. Barnes, Julia Hohn, Michael J. Cline, Wayne Carver, Michael Matthews, Daniel Savin, Carlos M. Rinaldi-Ramos and Christine E. Schmidt\*





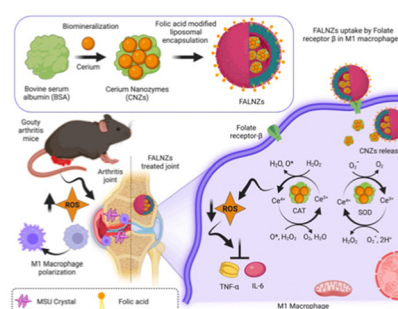
Li Su,\* Sainan Qin, Xinai Yu, Yifei Chen, Liang Wang,\*  
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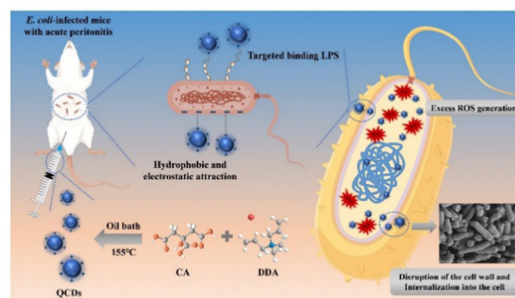
# Targeted treatment of gouty arthritis by biomineralized metallic nanozyme-mediated oxidative stress-mitigating nanotherapy

Adityanarayan Mohapatra, Ayeskanta Mohanty,  
Padmanaban Sathiyamoorthy, Sahil Chahal,  
Veena Vijayan, Santhosh Kalash Rajendrakumar and  
In-Kyu Park\*



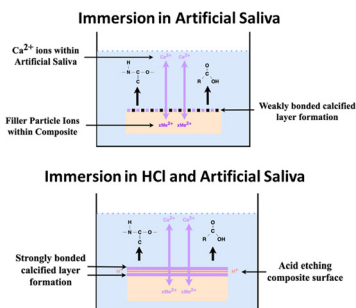
# Quaternized carbon dots with enhanced antimicrobial ability towards Gram-negative bacteria for the treatment of acute peritonitis caused by *E. coli*

Xintian Zhang, Pingping Wu, Xiaoli Hao, Jiamiao Liu,  
Zhengjun Huang, Shaohuang Weng,\* Weifeng Chen,  
Lingling Huang\* and Jianyong Huang\*

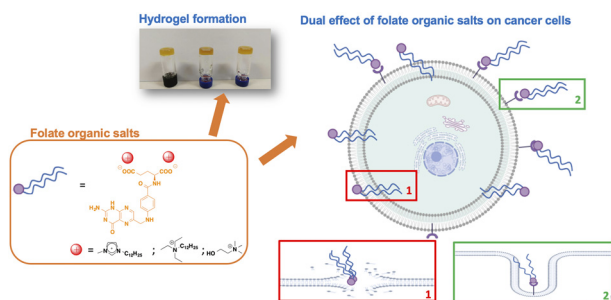


## Unveiling the mechanisms behind surface degradation of dental resin composites in simulated oral environments

Brenda Ah-yan Leung, William Joe, Sajjad S. Mofarah,\*  
Charles C. Sorrell, Roozbeh Abbasi, Mohsen Azadeh,  
Joseph A Arsecularatne and Pramod Koshy\*



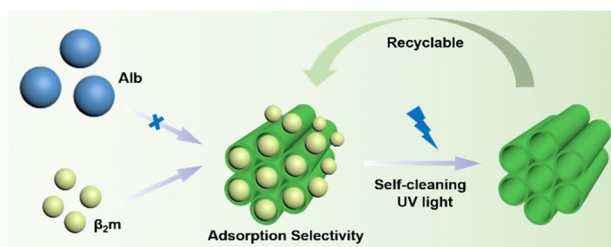
7721



### Insights about the ability of folate based supramolecular gels to act as targeted therapeutic agents

Carla Rizzo, Patrizia Cancemi, Miriam Buttacavoli, Gianluca Di Cara, Cesare D'Amico, Floriana Billeci, Salvatore Marullo and Francesca D'Anna\*

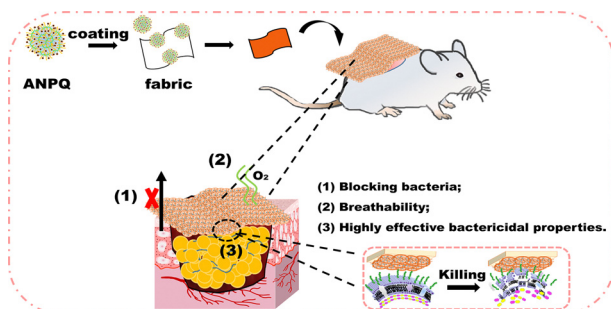
7739



### A novel recyclable hemoperfusion adsorbent based on TiO<sub>2</sub> nanotube arrays for the selective removal of β<sub>2</sub>-microglobulin

Minjun Zhang, Xinjie Liu, Xiaofan Li, Wan Zhou, Huibin Yu, Shenqi Wang\* and Lei Zhou\*

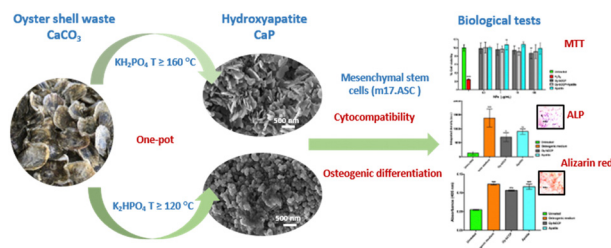
7750



### Highly active nanoparticle enhanced rapid adsorption-killing mechanism to combat multidrug-resistant bacteria

Yunyun Xue, Zihao Zhao, Wenbo Huang, Zelin Qiu, Xiao Li, Yu Zhao, Chuyao Wang, Ronglu Cui, Shuyang Shen, Hua Tian, Lifeng Fang,\* Rong Zhou\* and Baoku Zhu\*

7766



### A sustainable one-pot method to transform seashell waste calcium carbonate to osteoinductive hydroxyapatite micro-nanoparticles

Raquel Fernández-Penas, Cristóbal Verdugo-Escamilla, Carla Triunfo, Stefanie Gärtner, Annarita D'Urso, Francesca Oltolina, Antonia Follenzi, Gabriele Maoloni, Helmut Cölfen, Giuseppe Falini and Jaime Gómez-Morales\*



7778

## Design and evaluation of propranolol hydrochloride loaded thiolated Zein/PEO electrospun fibrous matrix for transmucosal drug delivery

Medha Surendranath, Rekha M Ramesan, Prakash Nair and Ramesh Parameswaran\*

