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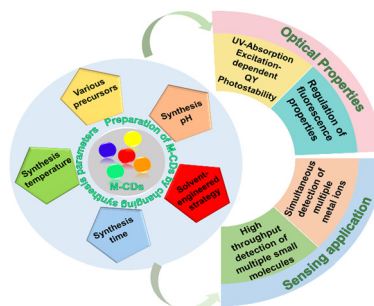


## REVIEWS

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### Synthetic strategies, properties and sensing application of multicolor carbon dots: recent advances and future challenges

Fangfang Du,\* Liu-Pan Yang\* and Li-Li Wang\*

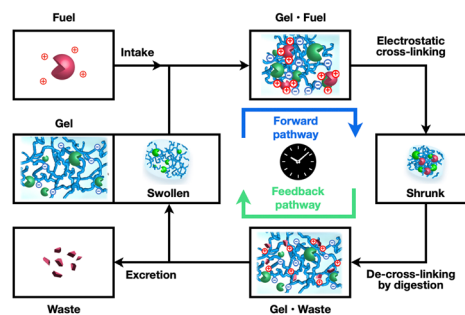


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### Engineering metabolic cycle-inspired hydrogels with enzyme-fueled programmable transient volume changes

Young Kyoung Hong, Masahiko Nakamoto\* and Michiya Matsusaki\*

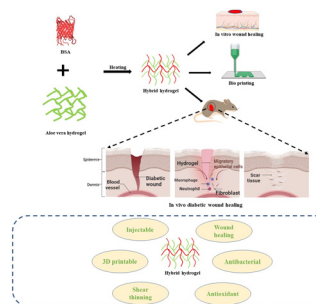


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### 3D printable, injectable amyloid-based composite hydrogel of bovine serum albumin and aloe vera for rapid diabetic wound healing

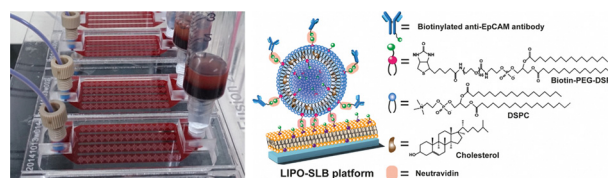
Kaustubh Naik, Priyanka Singh, Monika Yadav, Saurabh Kr Srivastava, Shikha Tripathi, Rahul Ranjan, Prodyut Dhar, Anita Kamra Verma,\* Shilpi Chaudhary\* and Avanish Singh Parmar\*



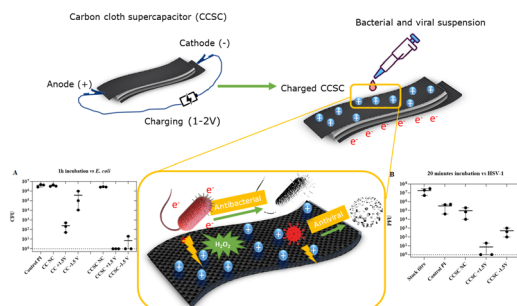
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### Liposome-tethered supported lipid bilayer platform for capture and release of heterogeneous populations of circulating tumor cells

Po-Ying Yeh, Jia-Yang Chen, Mo-Yuan Shen, Ting-Fang Che, Syer Choon Lim, Jocelyn Wang, Wen-Sy Tsai, Curtis W. Frank, Chun-Jen Huang\* and Ying-Chih Chang\*



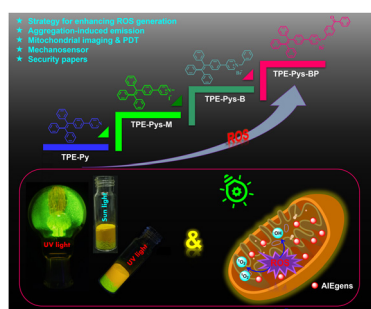
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### From energy storage to pathogen eradication: unveiling the antibacterial and antiviral capacities of flexible solid-state carbon cloth supercapacitors

Sara Beikzadeh, Alireza Akbarinejad, John Taylor, Janesha Perera, Jacqueline Ross, Simon Swift, Paul A. Kilmartin and Jadranka Travas-Sejdic\*

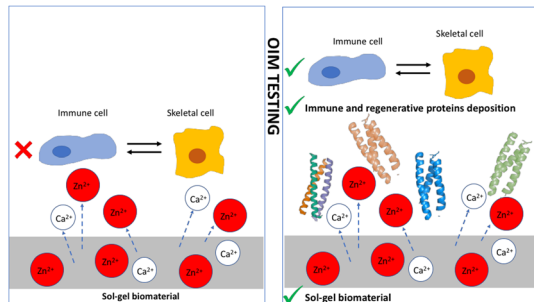
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### Molecular engineering to enhance the reactive oxygen species generation of AIEgens and exploration of their versatile applications

Weidong Yin, Jianqing Li, Yucheng Ma, Longjiang Xing, Zeduan Chen, Bo Liu, Yanping Huo, Zujin Zhao\* and Shaomin Ji\*

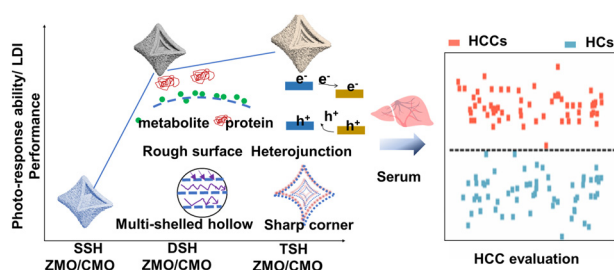
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### Proteomics as a tool to study the osteoimmunomodulatory role of metallic ions in a sol-gel coating

Iñaki García-Arnáez,\* Francisco Romero-Gavilán, Andreia Cerqueira, Mikel Azkargorta, Félix Elortza, Julio Suay, Isabel Goñi and Mariló Gurruchaga\*

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### Hollow multishelled heterostructures with enhanced performance for laser desorption/ionization mass spectrometry based metabolic diagnosis

Congcong Pei, Rui Su, Songting Lu, Xiaonan Chen, Yajie Ding, Rongxin Li, Weikang Shu, Yu Zeng, Yingying Lin, Liang Xu, Yuqiang Mi\* and Jingjing Wan\*



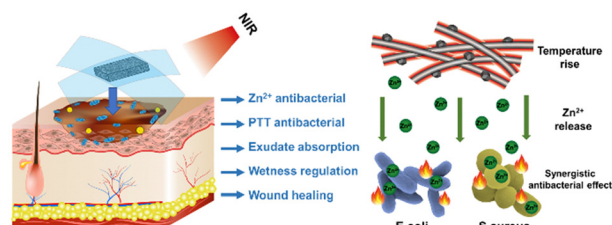


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# A multifunctional PAN/PVP nanofiber sponge wound dressing loaded with ZIF-8-derived carbon nanoparticles with adjustable wetness for rapid wound disinfection and exudate management

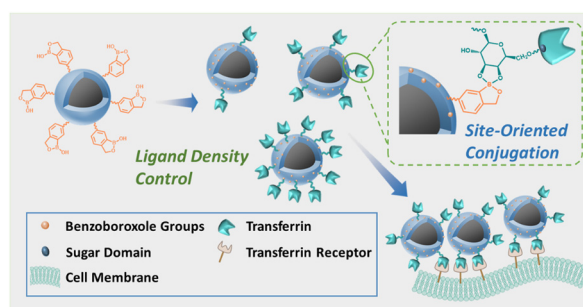
Zhipeng Yuan,\* Jing Zhang, Xinfu Zhao, Sijia Liu, Shimo Yu, Xiaochan Liu, Xinen Zhang and Xibin Yi\*



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# Design and investigation of targeting agent orientation and density on nanoparticles for enhancing cellular uptake efficiency

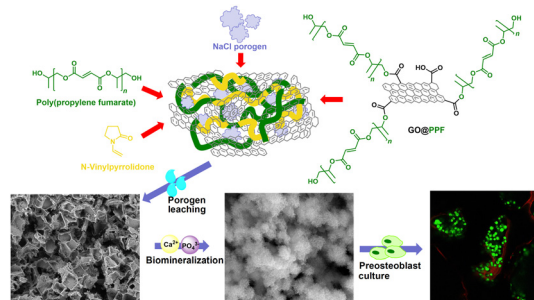
Weiwei Fei, Xiuli Wang, Jia Guo and Changchun Wang\*



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# Synthesis and evaluation of poly(propylene fumarate)-grafted graphene oxide as nanofiller for porous scaffolds

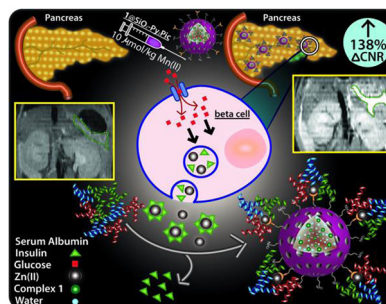
Andreea M. Pandele, Aida Selaru, Sorina Dinescu, Marieta Costache, Eugeniu Vasile, Constanța Dascălu, Matei D. Raicopol\* and Mircea Teodorescu



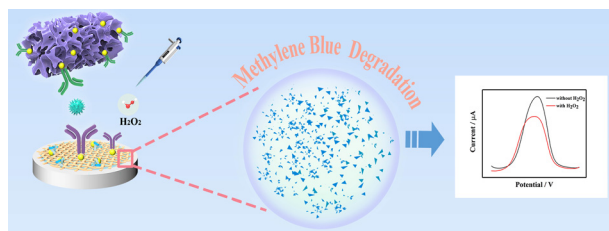
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# Mn(II) complex impregnated porous silica nanoparticles as Zn(II)-responsive "Smart" MRI contrast agent for pancreas imaging

Riya Mallik, Muktaashree Saha, Vandna Singh, Hari Mohan, S. Senthil Kumaran and Chandan Mukherjee\*



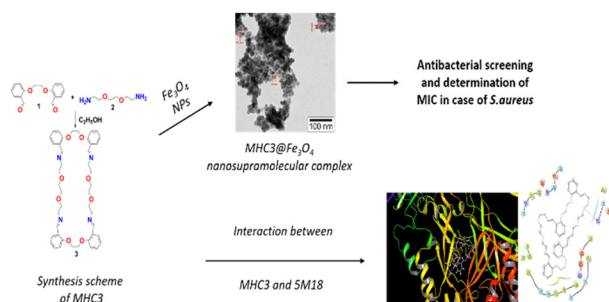
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### "Gold-plated" PCN-222(Fe) and superconductive carbon black-based sandwich-type immunosensor for detecting CYFRA21-1

Lin Fu, Zhaode Mu, Jing Zhou, Min Qing\* and Lijuan Bai\*

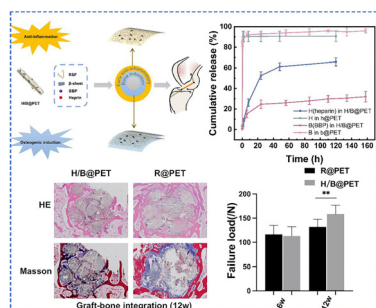
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### Synthesis, nanostructuring and *in silico* studies of a new imine bond containing a macroheterocycle as a promising BBP-2a non- $\beta$ -lactam inhibitor

Alakbar Huseynzada,\* Mirjavid Aghayev, Sarvinaz Hajiyeva, Aygun Israyilova, Koray Sayin, Eldar Gasimov, Fuad Rzayev, Ulviyya Hasanova, Goncha Eyvazova, Vagif Abbasov, Zarema Gakhramanova, Sanam Huseynova, Parvana Huseynova, Lala Huseynova and Nigar Salimova

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### Sequential intervention of anti-inflammatory and osteogenesis with silk fibroin coated polyethylene terephthalate artificial ligaments for anterior cruciate ligament reconstruction

Ni Chen, Wenhe Jin, Han Gao, Jiachan Hong, Luyi Sun, Jinrong Yao, Xin Chen, Jun Chen,\* Shiyi Chen\* and Zhengzhong Shao\*

