

Biomaterials Science

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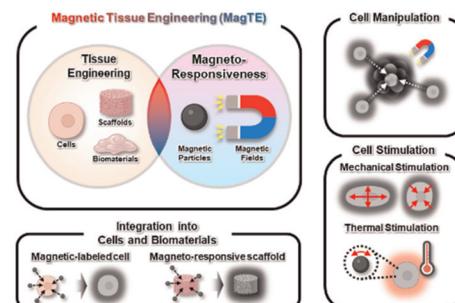
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Magnetic-based tissue engineering: principles, applications, and future prospects in biofabrication

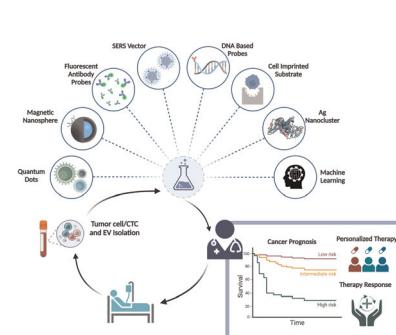
Hwanyong Choi and Jinah Jang*



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Functional biomaterials and machine learning approaches for phenotyping heterogeneous tumor cells and extracellular vesicles

Rutwik Joshi, Raheel Ahmad, Karl Gardner, Hesaneh Ahmadi, Chau-Chyun Chen, Shannon L. Stott* and Wei Li*



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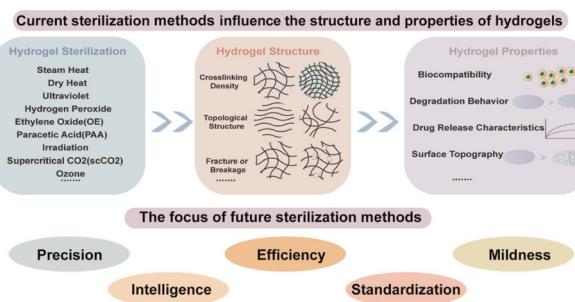


REVIEWS

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Effects of irradiation sterilization on the physicochemical and functional properties of commercial biomedical hydrogels

Yin Zhou, Yueyu Ma, Abdus Samad, Zhonghao Wang, Zuo-hao Gu, Jingwei Shi, Yuwen Cui,* Yiyuan He* and Zhongwei Gu

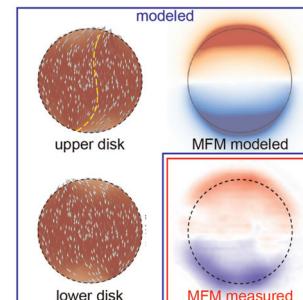


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Approaching the physical limits of specific absorption rate for synthetic antiferromagnetic nanodisks in hyperthermia applications

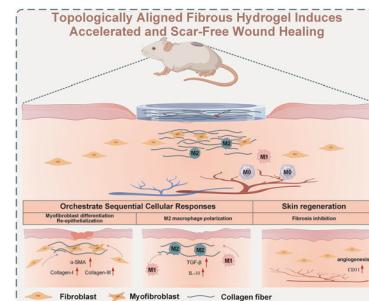
S. Scheibler, H. Wei, J. Ackers, S. Helbig, S. Koraltan, R. Peremadathil-Pradeep, M. Krupinski, M. Graeser, D. Suess,* I. K. Herrmann* and H. J. Hug*



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Topologically aligned fibrous biopolymeric hydrogel orchestrates sequential cellular responses for accelerated scarless wound healing

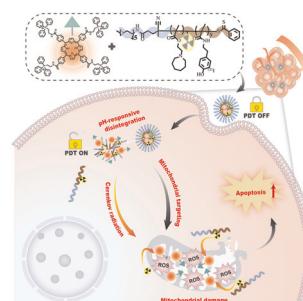
Yongjie Wu, Zenghui Jia, Kang Sun, Guangdong Zhou* and Ke Tao*



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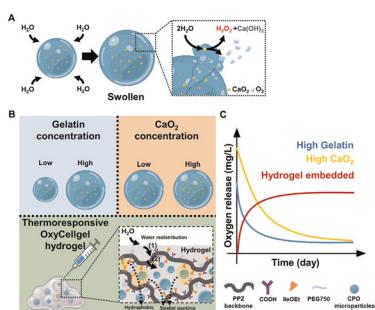
An activatable self-amplifying ROS nanoplatform for augmented Cerenkov radiation-induced photodynamic therapy

Hehua Xiong, Yiling Ruan, Huihui Liu, Xuan Liu* and Xiaolian Sun*



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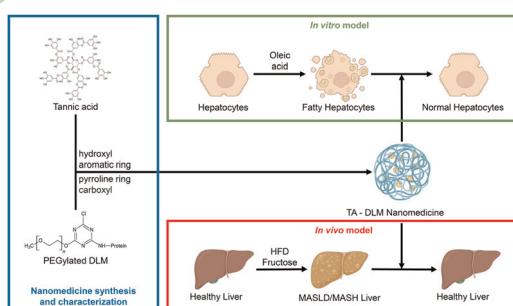
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Modulating oxygen release *via* manipulated microspheres embedded in thermoresponsive hydrogels for enhanced stem cell survival under hypoxia

Jiyeon Lee, Jisun Kim, Ki Wan Bong and Soo-Chang Song*

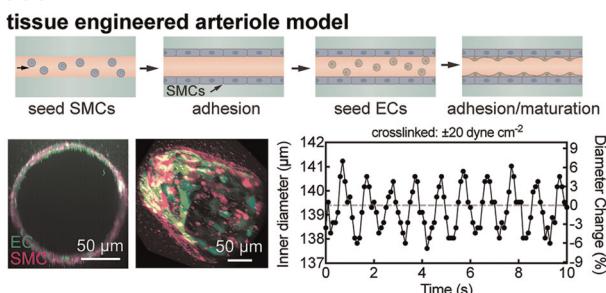
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Development of a decellularized liver matrix-based nanomedicine for metabolic dysfunction-associated steatotic liver disease

Yong-Heng Lin, Huei-Fen Jheng and Yung-Te Hou*

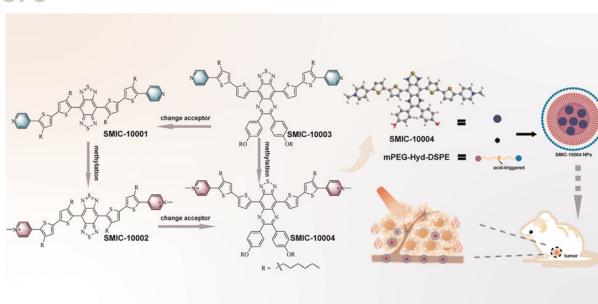
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A tissue-engineered endothelial cell – smooth muscle cell arteriole-like model

Ninghao Zhu, Lily Liang, Nan Zhao, Haosong Chen and Peter C. Searson*

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Charge modulation in D-A-D molecules: an acid-responsive NIR-II nanoplatform for imaging and photothermal therapy

Shu Gao, Jiahui Wang, Xiaonan Wei, Jun Wang, Yuanpeng Jiang, Boyu Tan, Yeshan Qin, Xiaoyang Zhu, Ruihu Song, Chunrong Qu,* Kun Qian* and Zhen Cheng*

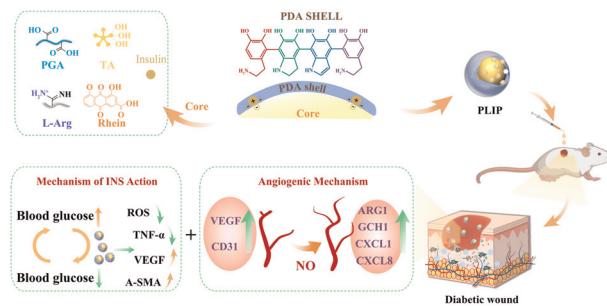


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Innovative epidermal-penetrating nanogels with microenvironment-adaptive pH responsiveness orchestrate glucose homeostasis reprogramming and spatiotemporally coordinated therapeutic cascades for precision diabetic wound therapy

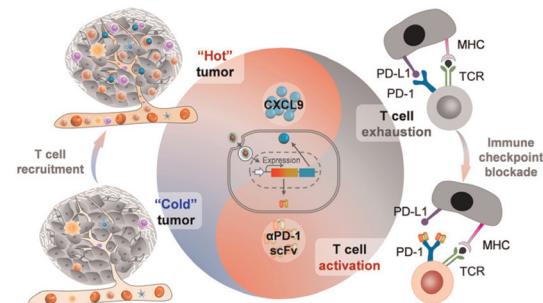
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Nanomedicine-mediated co-expression of a PD-1 blockade agent and CXCL9 synergizes T cell infiltration and activation in solid tumors

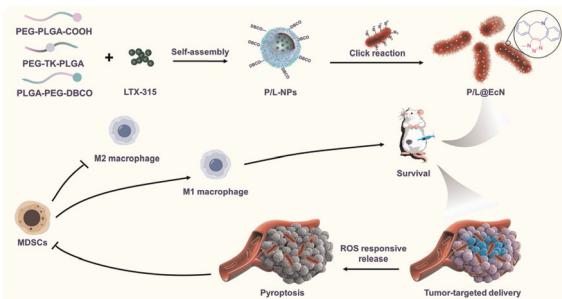
Yan Wang,* Liang Zhao, Jia-Yu Luo, Jie Li, Xin-Ya Gao, Hui-Xiao Li, Yue Zheng and Jia-Wei Liu*



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Bacteria biohybrids integrating anticancer peptide-loaded nanoparticles for tumor immunotherapy through pyroptosis activation

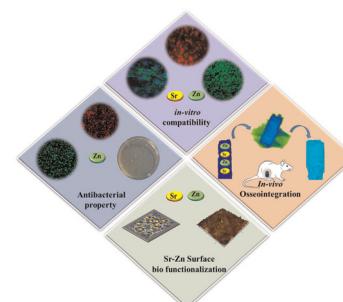
Shiyi Chen, Xunping Ouyang, Xue Wei, Gang He, Yiwen Xian, Chong Zhang* and Decheng Wu*



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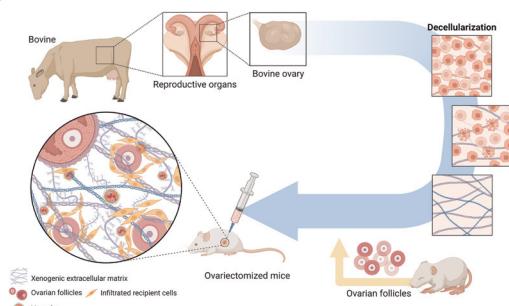
Tailoring the interfaces of titanium with strontium and zinc: a surface functionalization approach with *in vitro* and *in vivo* evaluation for bone implants

Sreya P V, Ann Mary Mathew, Kalimuthu Vignesh, Chandran Manimegalai Swathi, Balamuthu Kadalmani and Deepak K. Pattanayak*



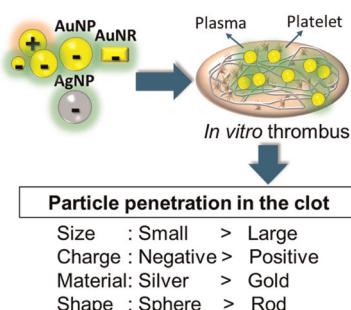
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A proof-of-concept study on an injectable artificial ovary using a xenogeneic ECM for fertility restoration

Chungmo Yang, Nanum Chung, Chaeyoung Song, Hyerim Kim, Jungwoo Shin, Kangwon Lee* and Jung Ryeol Lee*

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Impact of material characteristics on nanoparticle penetration and retention in thrombi: implications for thrombolysis

Xiangxun Chen, Haotian Cha, Shehzahdi S. Moonshi, Nam-Trung Nguyen and Hang Thu Ta*

CORRECTIONS

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Correction: NiFe-LDH-enhanced Ru single-atom catalysts anchored on MXenes for synergistic photothermal–nanocatalytic cancer therapy

Sharipova Gulnihol, Takhirov Yuldash, Rakhmanov Kosim, Avliyoqulova Musharraf, Lola Abduraximova, Ismailova Zukhra, Ibragimkhodjaev Bakhodir, Kuchkorova Ra'no, Abdullayev Dadaxon, Dilbar Urazbaeva, Sullieva Suluv and Monireh Faraji*

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Correction: Ultra-low attachment surface enabling 3D co-culture of human B cells with CD40L-expressing stromal cells for *in vitro* mimicry of secondary lymphoid organs

Ananta Kumar, Kyoung Hwan Park, Kang Moo Huh* and Kyung-Ho Roh*