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Materials for biology and medicine

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IN THIS ISSUE

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Cover

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Inside cover

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EDITORIAL

6993

Introduction to stimuli responsive materials for biomedical applications

Mary Beth B. Monroe,* N. D. Pradeep Singh* and
Yanli Zhao*

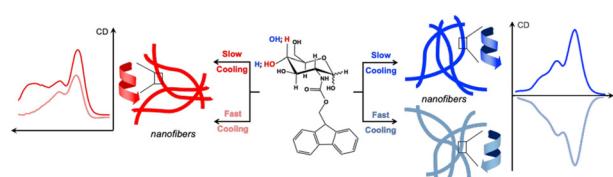


COMMUNICATION

6996

Cooling rate uncovers epimer-dependent supramolecular organization of carbohydrate amphiphiles

Vânia I. B. Castro, Yuting Gao, Alexandra Brito, Jie Chen,
Rui L. Reis, Iva Pashkuleva* and Ricardo A. Pires*



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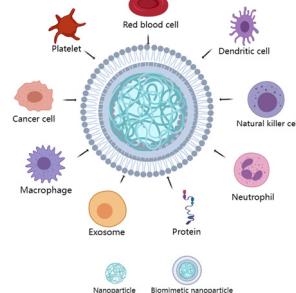


REVIEWS

7001

Advances in biomimetic nanomaterial delivery systems: harnessing nature's inspiration for targeted drug delivery

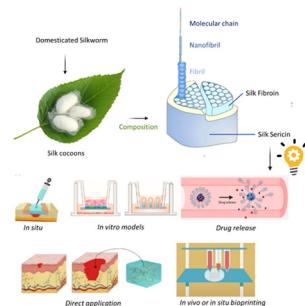
Weiwei Kang, Zhe Xu, Haiying Lu, Siwei Liu, Jianshu Li, Chunmei Ding* and Yongping Lu*



7020

Expanding the boundaries of silk sericin biomaterials in biomedical applications

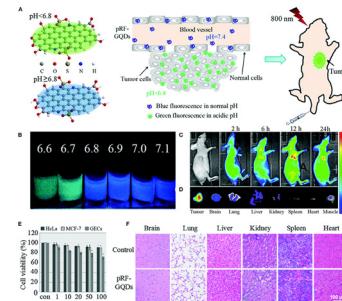
Anabela Veiga, Olivia Foster, David L. Kaplan and Ana Leite Oliveira*



7041

Recent breakthroughs in graphene quantum dot-enhanced sonodynamic and photodynamic therapy

Seyyed Mojtaba Mousavi, Masoomeh Yari Kalashgrani, Negar Javanmardi, Mohsen Riazi, Muhammad Hussnain Akmal, Vahid Rahamanian, Ahmad Gholami* and Wei-Hung Chiang*

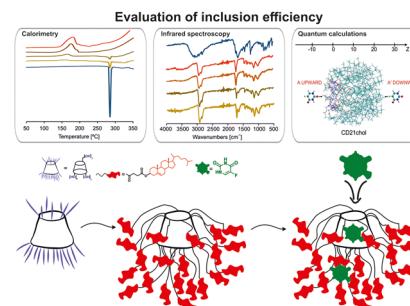


PAPERS

7063

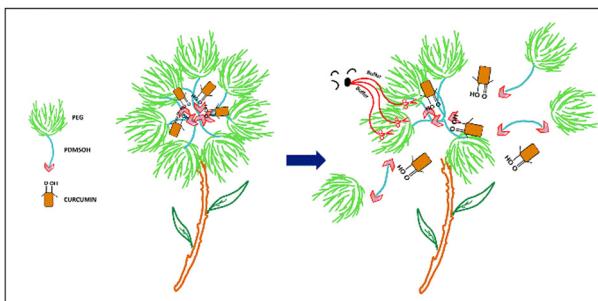
Encapsulation of 5-fluorouracil in cholesteryl-modified cyclodextrin: thermal, spectral, and computational assessment of drug inclusion efficiency

Pawel Misiak,* Bartosz Maliszewski, Zuzanna Pawłowska, Anna Ignaczak* and Agnieszka Z. Wilczewska*



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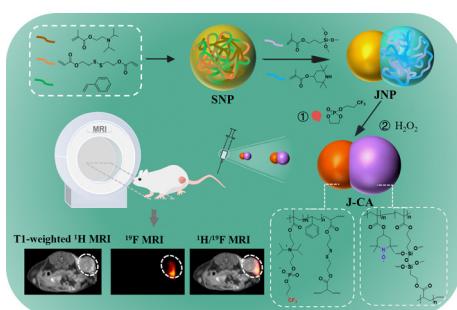
7076



One-step synthesis of amphiphilic copolymers PDMS-*b*-PEG using tris(pentafluorophenyl)borane and subsequent study of encapsulation and release of curcumin

Abygail Camacho-Ramírez, Miguel Meléndez-Zamudio, Jorge Cervantes, Gabriela Palestino and Antonio Guerra-Contreras*

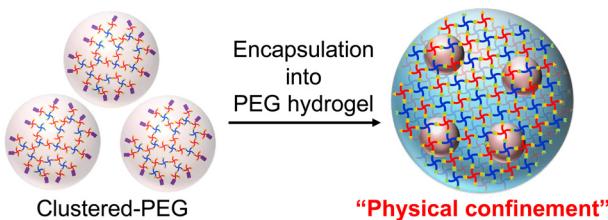
7090



A polymeric $^1\text{H}/^{19}\text{F}$ dual-modal MRI contrast agent with a snowman-like Janus nanostructure

Ziwei Duan, Jialei Han, Yadong Liu, Xinyu Zhao, Bo Wang, Shuaishuai Cao* and Dalin Wu*

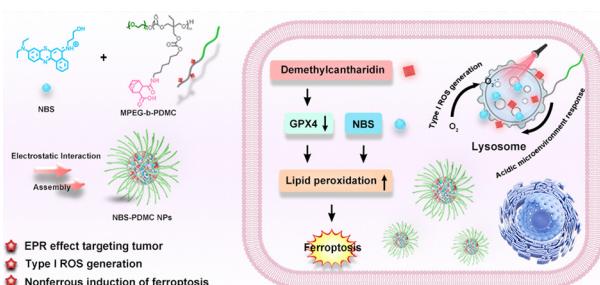
7103



Enhancing cell adhesion in synthetic hydrogels via physical confinement of peptide-functionalized polymer clusters

Shohei Ishikawa,* Hiroyuki Kamata* and Takamasa Sakai

7113



Charge-reversal polymeric nanomodulators for ferroptosis-enhanced photodynamic therapy

Xuelong Yang, Maomao He,* Yinghua Li, Tian Qiu, Jiexuan Zuo, Yixiao Jin, Jiangli Fan, Wen Sun* and Xiaojun Peng

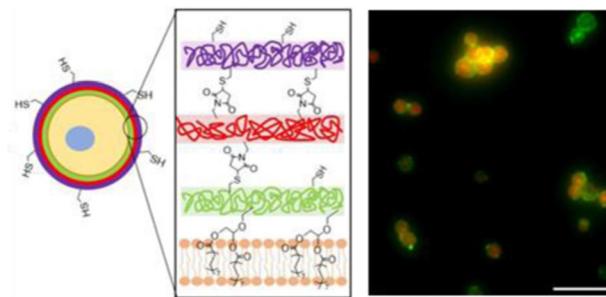


PAPERS

7122

Conformal encapsulation of mammalian stem cells using modified hyaluronic acid

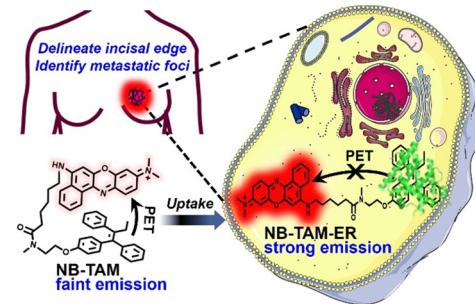
Jack Whitewolf and Christopher B. Highley*



7135

Clearly fluorescent delineating ER+ breast tumor incisal edge and identifying tiny metastatic tumor foci at high resolution

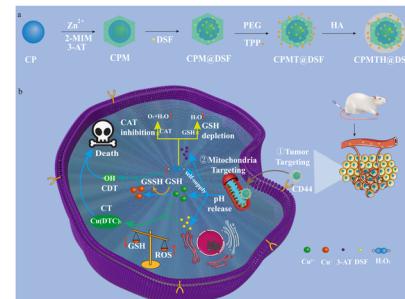
Changle Li, Changyu Zhang,* Wenkai Liu, Jia Liu, Wanying Ma, Chengyuan Lv, Zhuoran Xia, Yingchao Chen, Hua Gu, Wen Sun, Jianjun Du, Jiangli Fan* and Xiaojun Peng



7143

Engineering of a double targeting nanoplatform to elevate ROS generation and DSF anticancer activity

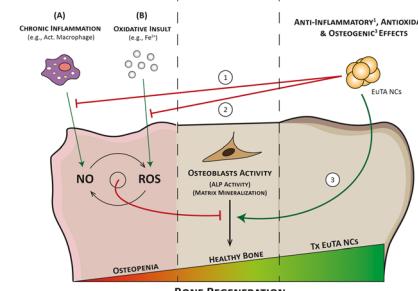
Wenqiu Li, Haowu Huang, Shunyu Yao, Yiwang Zhao, Mingxing Liu, Xiaoqing Liu and Huiling Guo*



7153

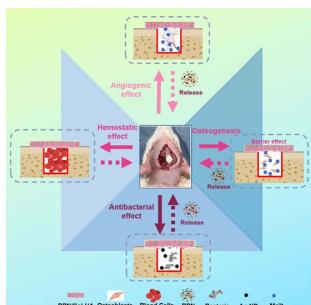
Europium–tannic acid nanocomplexes devised for bone regeneration under oxidative or inflammatory environments

Daniel Fernández-Villa, María Rosa Aguilar and Luis Rojo*



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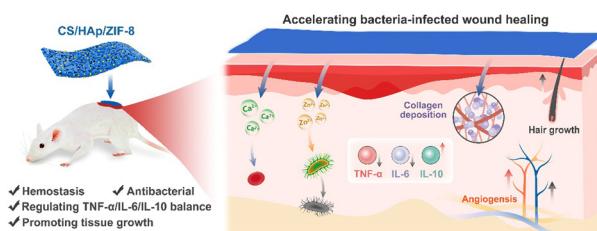
7171



A multifunctional collagen-base bilayer membrane integrated with a bimetallic/polydopamine network for enhanced guided bone regeneration

Dou Huang, Die Yang, Kaide Li, Jiran Wang, Xiaohui Zheng, Jie Long and Lei Liu*

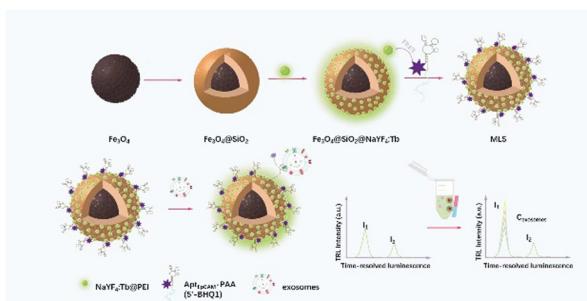
7191



A multifunctional chitosan based porous membrane for pH-responsive antibacterial activity and promotion of infected wound healing

Shan Pu, Jiale Zhang, Chaoting Shi, Xiandeng Hou, Ka Li, Jinhua Feng* and Lan Wu*

7203



Magnetic lanthanide sensor with self-ratiometric time-resolved luminescence for accurate detection of epithelial cancerous exosomes

Yating Zeng, Xuekang Wang, Nanhang Zhu, Yue Yu, Xingyou Wang, Ke Kang, Yao Wu and Qiangying Yi*

