

Journal of Materials Chemistry B

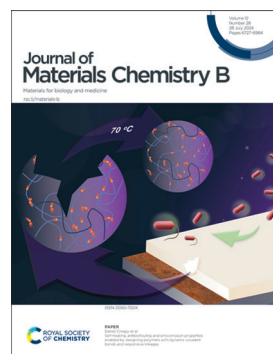
Materials for biology and medicine

rsc.li/materials-b

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 2050-750X CODEN JMCBDV 12(28) 6727-6984 (2024)



Cover

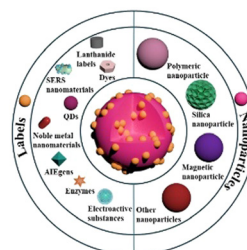
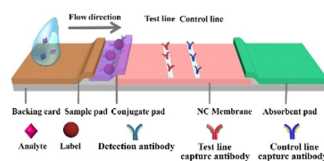
See Daniel Crespy *et al.*, pp. 6827–6839.
Image reproduced by permission of Jenpob Sokjorhor from *J. Mater. Chem. B*, 2024, 12, 6827.

REVIEWS

6735

A nanoparticle-assisted signal-enhancement technique for lateral flow immunoassays

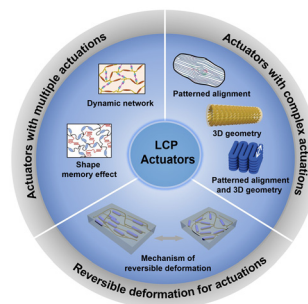
Fang Gao, Shaonian Ye, Lin Huang* and Zhengying Gu*



6757

Liquid crystal polymer actuators with complex and multiple actuations

Xiaoyu Zhang, Jia Wei,* Lang Qin* and Yanlei Yu



Environmental Science: Atmospheres

GOLD
OPEN
ACCESS

Connecting communities and inspiring new ideas



Open Access Article. Published on 17 July 2024. Downloaded on 4/19/2026 11:21:04 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

rsc.li/submittoEA

Fundamental questions
Elemental answers

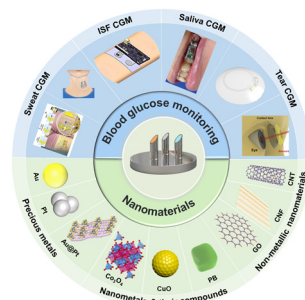


REVIEWS

6774

Advanced nanomaterials for electrochemical sensors: application in wearable tear glucose sensing technology

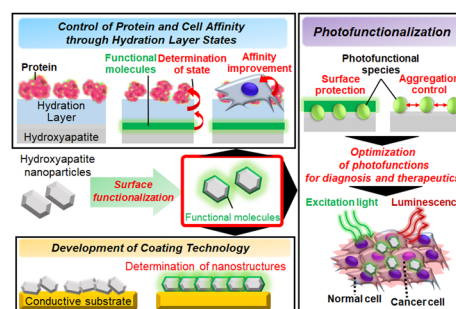
Yue Zhou, Lei Li, Jiale Tong, Xiaoli Chen, Wei Deng, Zhiyu Chen, Xuanyu Xiao, Yong Yin, Qingsong Zhou, Yongli Gao,* Xuefeng Hu* and Yunbing Wang



6805

Surface functionalization of hydroxyapatite nanoparticles for biomedical applications

Takuya Kataoka, Zizhen Liu, Iori Yamada, Tania Guadalupe Peñaflor Galindo and Motohiro Tagaya*

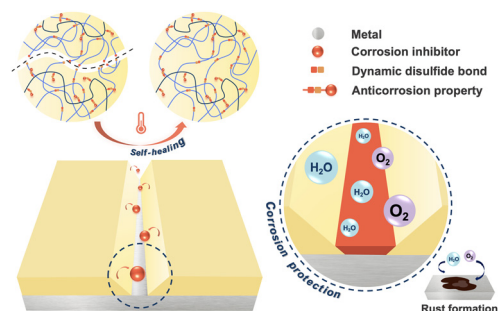


PAPERS

6827

Self-healing, antibiofouling and anticorrosion properties enabled by designing polymers with dynamic covalent bonds and responsive linkages

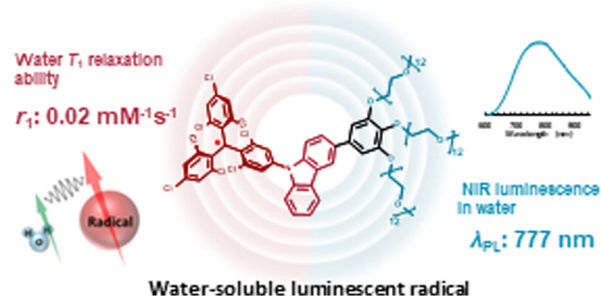
Jenpob Sokjorhor, Tiwa Yimyai, Raweevan Thiramanas and Daniel Crespy*



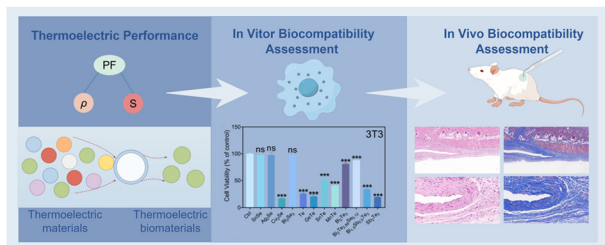
6840

A water-soluble luminescent tris(2,4,6-trichlorophenyl)methyl radical-carbazole dyad

Kosuke Anraku, Kenshiro Matsuda, Satoshi Miyata, Hikaru Ishii, Takuya Hosokai,* Satoshi Okada, Kazuhiro Nakamura, Kohei Nakao and Ken Albrecht*



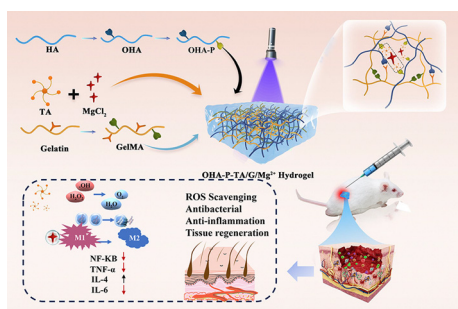
6847



In vitro and *in vivo* biocompatibility assessment of chalcogenide thermoelectrics as implants

Mingyuan Gao, Yiping Luo, Wen Li,* Longpo Zheng* and Yanzhong Pei*

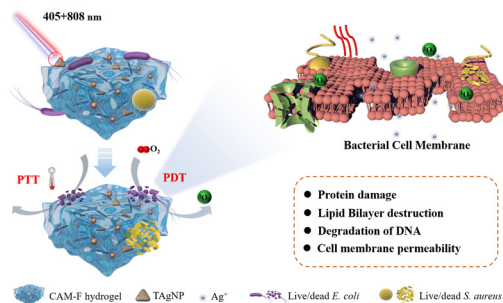
6856



Microenvironment-responsive release of Mg^{2+} from tannic acid decorated and multilevel crosslinked hydrogels accelerates infected wound healing

Na Li, Yi Cao, Jingyi Liu, Wen Zou, Manyu Chen, Hongfu Cao, Siyan Deng, Jie Liang, Tun Yuan, Qiguang Wang,* Yujiang Fan* and Xingdong Zhang

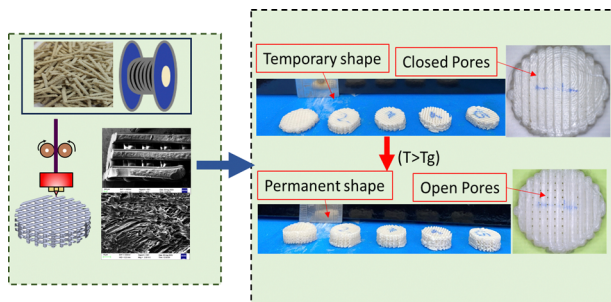
6874



Thermosensitive curcumin/silver/montmorillonite-F127 hydrogels with synergistic photodynamic/photothermal/silver ions antibacterial activity

Jia Hui Liu, Xiao Lan Chen, Hui Min Yang, Yu Rong Yin, Alfin Kurniawan and Chun Hui Zhou*

6886



Design and development of 3D printed shape memory triphasic polymer-ceramic bioactive scaffolds for bone tissue engineering

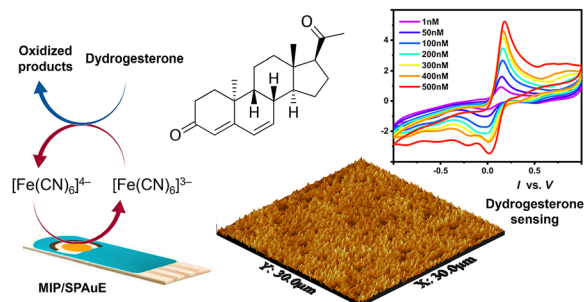
Mohammad Aftab Alam Ansari, Pooja Makwana, Bindiya Dhimmam, Rajesh Vasita, Prashant Kumar Jain* and Himansu Sekhar Nanda*



6905

Portable smartphone-enabled dydrogesterone sensors based on biomimetic polymers for personalized gynecological care

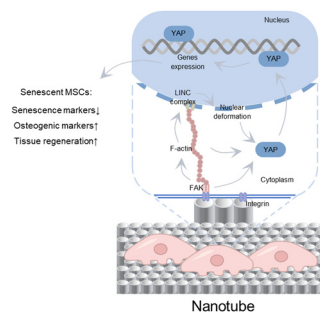
Sobia Ashraf, Tajamal Hussain, Sadia Zafar Bajwa, Adnan Mujahid and Adeel Afzal*



6917

Nanotube topography rejuvenates the senescence of mesenchymal stem cells by activating YAP signalling

Yanping Sun, Yejia Yu, Shixing Ma, Chengcheng Liao, Jian Yang, Yun Lyu, Xuanhao Zhang, Jingyi Zhang, Weidong Tian* and Li Liao*



6927

Composite hydrogels with antioxidant and robust adhesive properties for the prevention of radiation-induced dermatitis

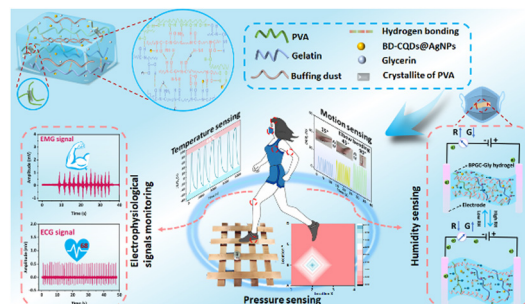
Xue Luo, Huan Liu, Jing Wen, Jiaxin Hu, Yongzhi Li, Guangjun Li, Guyu Dai, Yubao Li* and Jidong Li*



6940

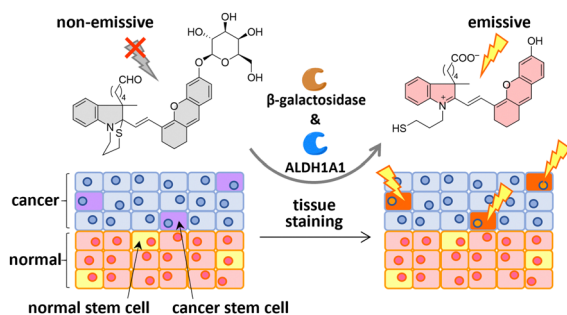
Collagen fiber-reinforced, tough and adaptive conductive organohydrogel e-skin for multimodal sensing applications

Zhen He, Jialu Shen, Maohua Lan and Haibin Gu*



PAPERS

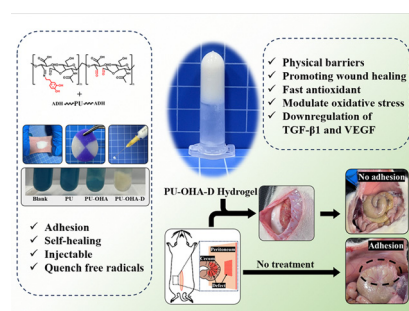
6959



Dual-responsive near-infrared turn-on fluorescent probe for cancer stem cell-specific visualization

Koji Miki,* Masahiro Oe, Kanae Suzuki, Koki Miki, Huiying Mu, Yoshimi Kato, Mayumi Iwatake, Hiroshi Yukawa, Yoshinobu Baba, Yoshifumi Ueda, Yasuo Mori and Kouichi Ohe*

6968



A bioinspired injectable antioxidant hydrogel for prevention of postoperative adhesion

Lei Yuan, Hongxiu Wei, ZhongJing Pan, Xiaobo Deng, Lin Yang, Yanchao Wang, Dan Lu, Zhen Li, Feng Luo,* Jiehua Li and Hong Tan

CORRECTION

6981

Correction: Portable smartphone-enabled dydrogesterone sensors based on biomimetic polymers for personalized gynecological care

Sobia Ashraf, Tajamal Hussain, Sadia Zafar Bajwa, Adnan Mujahid and Adeel Afzal*

