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Materials for biology and medicine

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IN THIS ISSUE

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Cover

See Rosendo Pérez-Isidoro, Carlos Guerrero-Sánchez, Marco Antonio De Jesús-Téllez, Enrique Saldívar-Guerra *et al.*, pp. 5823–5837. Image reproduced by permission of Rosendo Pérez-Isidoro and Alma Jessica Díaz-Salazar from *J. Mater. Chem. B*, 2024, 12, 5823.



Inside cover

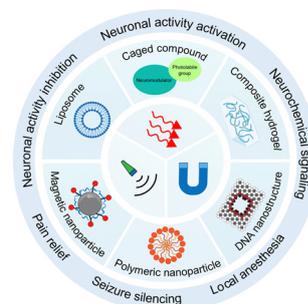
See Zhi Zheng *et al.*, pp. 5838–5847. Image reproduced by permission of Zhi Zheng from *J. Mater. Chem. B*, 2024, 12, 5838.

REVIEWS

5769

Recent advances in stimuli-responsive controlled release systems for neuromodulation

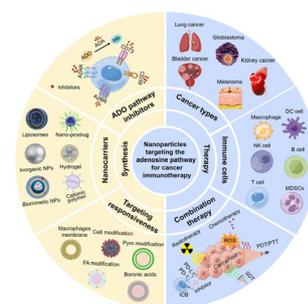
Jielin Shi, Chao Tan, Xiaoqian Ge, Zhenpeng Qin* and Hejian Xiong*



5787

Nanoparticles targeting the adenosine pathway for cancer immunotherapy

Kehua Jiang, Jian Wu, Qing Wang, Xiaolong Chen, Yanlong Zhang, Xiaoya Gu* and Kun Tang*



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Fundamental questions
Elemental answers

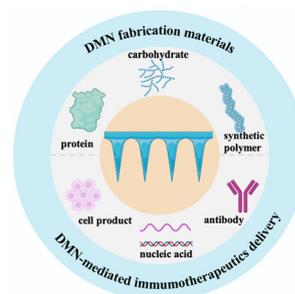


REVIEWS

5812

Dissolving microneedles for transdermal drug delivery in cancer immunotherapy

Maya Xiang, Chunli Yang, Li Zhang, Siyi Wang, Ya Ren and Maling Gou*

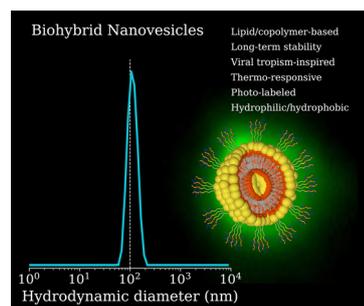


PAPERS

5823

Biophysical investigation of liposome systems decorated with bioconjugated copolymers in the presence of amantadine

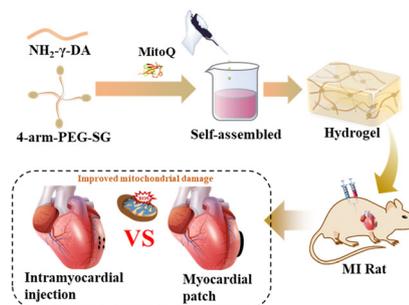
Rosendo Pérez-Isidoro,* Alejandra Gabriela Valdez-Lara, Alma Jessica Díaz-Salazar, Stephanie Hoepfener, Carlos Guerrero-Sánchez,* Patricia Quintana-Owen, Jesus Carlos Ruiz-Suárez, Ulrich S. Schubert, Guadalupe Ayora-Talavera, Marco Antonio De Jesús-Téllez* and Enrique Saldívar-Guerra*



5838

Comparative effectiveness of myocardial patches and intramyocardial injections in treating myocardial infarction with a MitoQ/hydrogel system

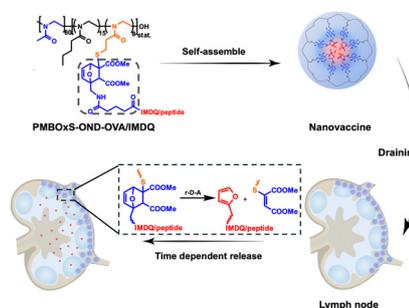
Ying Tan, Yali Nie, Lei ZhengWen and Zhi Zheng*



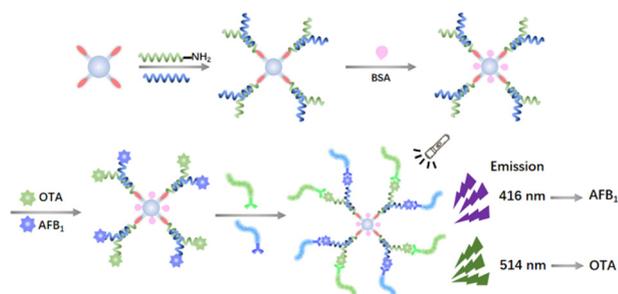
5848

Peptide nanovaccine conjugated via a retro-Diels–Alder reaction linker for overcoming the obstacle in lymph node penetration and eliciting robust cellular immunity

Kuncheng Lv, Sheng Ma, Liping Liu, Hongyu Chen, Zichao Huang, Zhenyi Zhu, Yibo Qi and Wantong Song*



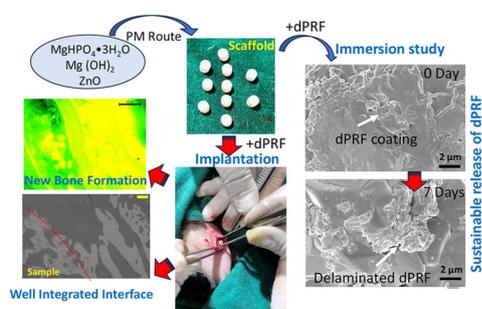
5861



A controllable Y-shaped DNA structure assisted aptasensor for the simultaneous detection of AFB₁ and OTA based on ARGET ATRP

Mingsan Miao,* Liang Guo, Jinyan Xue, Yuzhen Jia, Zhenzhen Cui and Huaixia Yang*

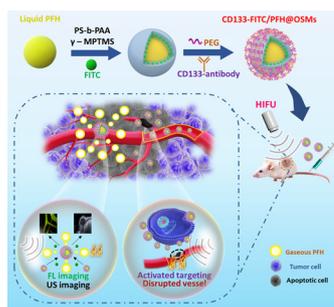
5869



Effects of the multiscale porosity of decellularized platelet-rich fibrin-loaded zinc-doped magnesium phosphate scaffolds in bone regeneration

Pritish Rath, Santanu Mandal, Pratik Das, Satyabrata Nigamananda Sahoo, Samiran Mandal, Debaki Ghosh, Samit Kumar Nandi* and Mangal Roy*

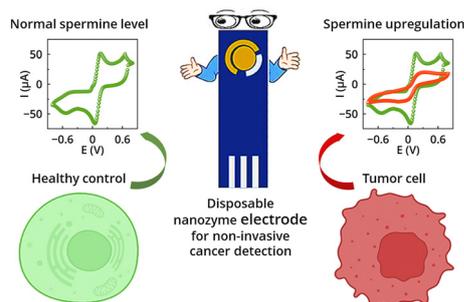
5884



CD133-targeted multifunctional nanomicelles for dual-modality imaging and synergistic high-intensity focus ultrasound (HIFU) ablation on pancreatic cancer in nude mice

Yijing Yao, Yiwen Zheng, Mingtai Wu, Yihui Gao, Qian Yu, Mengyao Liu, Xiaoxiao Luo, Rui Wang* and Lixin Jiang*

5898



Electrocatalytic FeFe₂O₄ embedded, spermine-imprinted polypyrrole (Fe/MIPpy) nanozymes for cancer diagnosis and prognosis

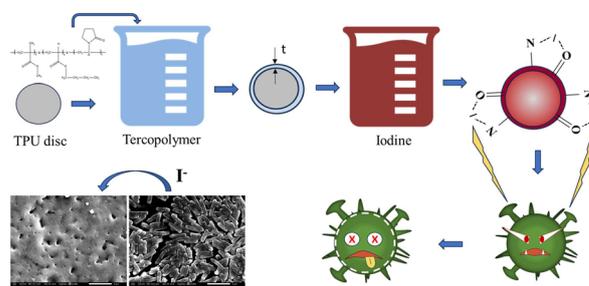
Iqra Zaman, Amna Liaqat, Sadaf Athar, Adnan Mujahid and Adeel Afzal*



5907

Development of iodine based sustained release antimicrobial coatings for polyurethane voice prostheses

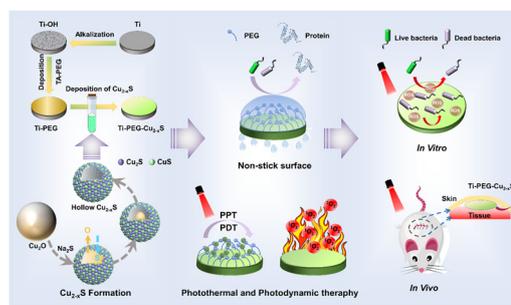
Manjeet Singh, Mohd Anees, Aiman Afreen, Dinesh Kalyanasundaram, Naresh Bhatnagar and Harpal Singh*



5917

Cu_{2-x}S homojunction coatings empower titanium implants with near-infrared-triggered antibacterial and antifouling properties

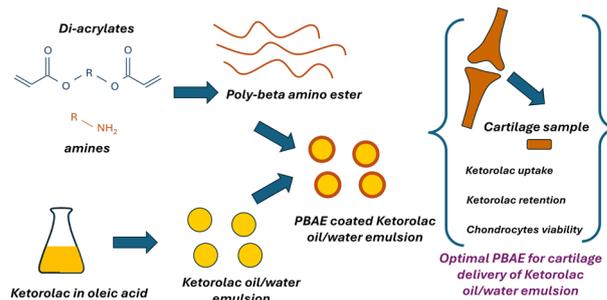
Fengqian Wang, Weicong Peng, Dongliang Huo, Jingxian Zhang, Suiping Deng, Langhuan Huang and Shaozao Tan*



5930

Screening of poly-beta amino ester coated emulsion of ketorolac for cartilage delivery

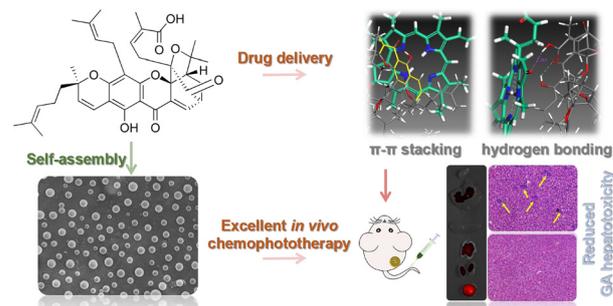
Tahani Saeedi and Polina Prokopovich*



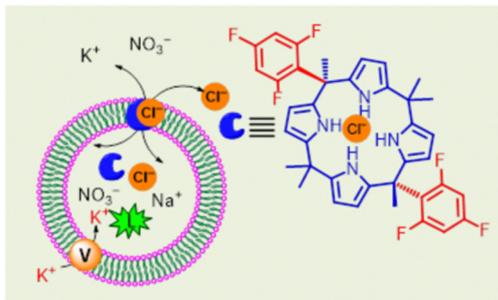
5940

Natural gambogic acid-tuned self-assembly of nanodrugs towards synergistic chemophototherapy against breast cancer

Baohang Lin, Xun Peng, Jianjun Cheng* and Jiacheng Wang*



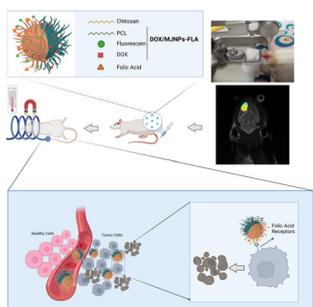
5950



Probing and evaluating transmembrane chloride ion transport in double walled trifluorophenyl/phthalimide extended calix[4]pyrrole-based supramolecular receptors

Ishfaq Ahmad Rather, Manzoor Ahmad, Pinaki Talukdar* and Rashid Ali*

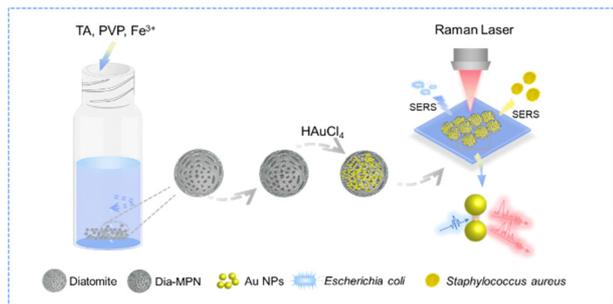
5957



Active targeted delivery of theranostic thermo/pH dual-responsive magnetic Janus nanoparticles functionalized with folic acid/fluorescein ligands for enhanced DOX combination therapy of rat glioblastoma

Bahareh Haji Ali, Sepideh Khoei, Fariba Mafakheri, Elahe Sadri, Vahid Pirhajati Mahabadi, Mohammad Reza Karimi, Sakine Shirvalilou* and Samideh Khoei*

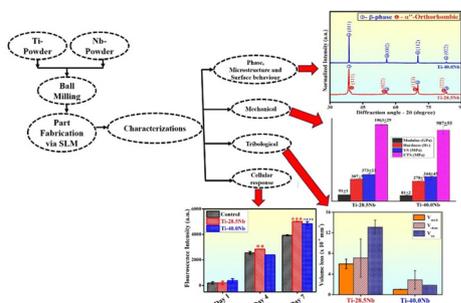
5974



Food-borne bacteria analysis using a diatomite bioinspired SERS platform

Yikai Chen, Binggang Ye, Mengling Ning, Meng Li, Yixuan Pu, Zhiming Liu, Huiqing Zhong,* Chaofan Hu* and Zhouyi Guo*

5982



In situ production of low-modulus Ti–Nb alloys by selective laser melting and their functional assessment toward orthopedic applications

Neera Singh, K. P. Srikanth, Vasanth Gopal, Monika Rajput, Geetha Manivasagam, K. G. Prashanth, Kaushik Chatterjee* and Satyam Suwas*

