

Biomaterials Science

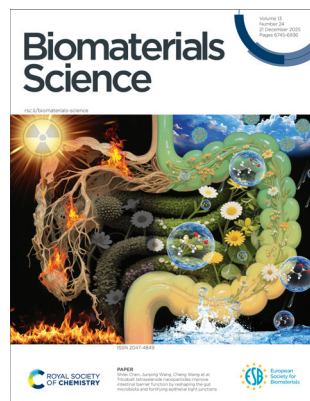
An international high impact journal exploring the underlying science behind the function, interactions and design of biomaterials

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Cover

See Shilei Chen,
Junping Wang, Cheng Wang
et al., pp. 6775–6790.

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6775.

EDITORIAL

6753

Emerging innovations in 3D and 4D bioprinting

Nasim Annabi

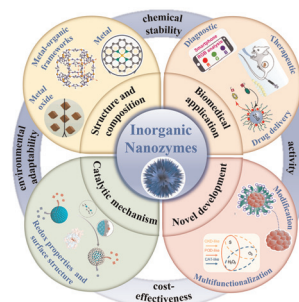


REVIEW

6755

Recent developments and prospects of inorganic nanozymes for biomedical applications

Siqi Zhan, Yan Fu, Hong Yu Yang* and Doo Sung Lee*



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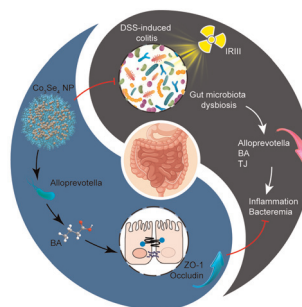
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6775

Tricobalt tetraselenide nanoparticles improve intestinal barrier function by reshaping the gut microbiota and fortifying epithelial tight junctions

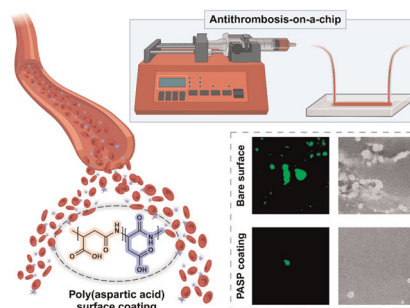
Yin Chen, Na Zhao, Songling Han, Gaomei Zhao, Yiyi Jiang, Chenwenya Li, Yingjuan He, Yangxue Ou, Jining Gao, Tao Wang, Jinghong Zhao, Jia Cao, Shilei Chen,* Junping Wang* and Cheng Wang*



6791

Polyaspartic acid coatings for blood-contacting surfaces: Promising antithrombotic and antibacterial properties under static and dynamic conditions

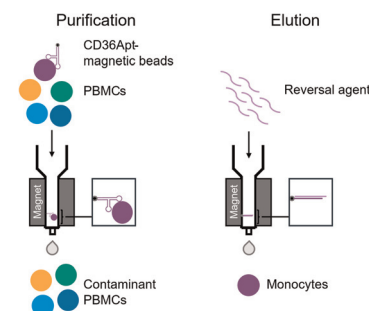
Cuong Hung Luu, Dimple Sajin, Hoang Huy Vu, Nhat-Khuong Nguyen, Nam-Trung Nguyen and Hang Thu Ta*



6805

Rapid and label-free isolation of human peripheral blood monocytes using a reversible CD36-binding aptamer for cell capture

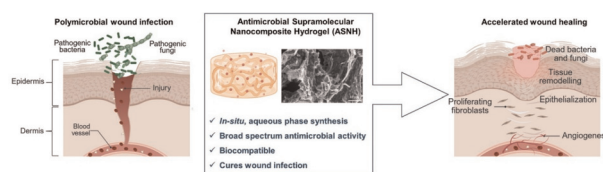
Melissa Ling, Nataly Kacherovsky, Abe Y. Wu, Minjian Ni, Jessica A. Hamerman and Suzie H. Pun*



6818

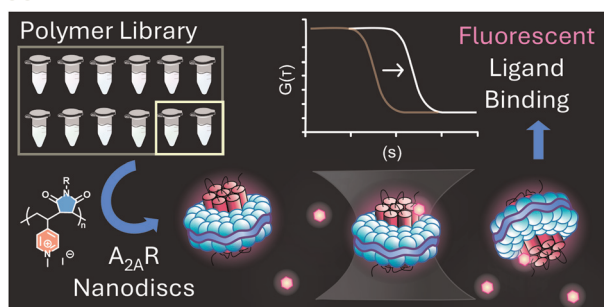
Short-peptide based supramolecular nanocomposite hydrogels for the disruption of polymicrobial biofilms and accelerated infected wound healing

Sudip Mukherjee, Manuel Núñez-Martínez, Sara Illescas-Lopez, Archanna Jeyakumar, Modesto Torcuato Lopez-Lopez, Juan Manuel Cuerva, Vaibhav Bhatia, José Antonio Gavira, Luis Álvarez de Cienfuegos* and Jayanta Haldar*



PAPERS

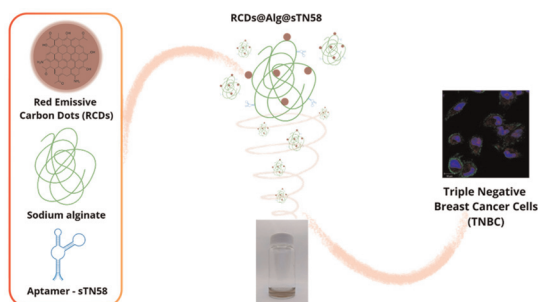
6837



Native adenosine A_{2A} receptor solubilisation by a library of amphipathic copolymers

Michelle D. Farrelly, Nazanin Mohebali, Emma Dal Maso, Cameron J. Nowell, Denise Wootten, Patrick M. Sexton, Lisandra L. Martin* and San H. Thang*

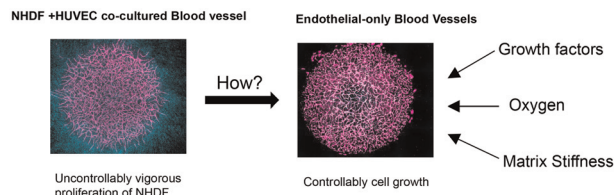
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A red emitting carbon dot and aptamer-functionalized alginate system for targeted triple-negative breast cancer imaging

Simone Maturi, Alessandra Caliendo, Silvia Tortorella, Nina Kostevšek, Erica Locatelli, Mauro Comes Franchini, Lisa Agnello, Simona Camorani, Laura Cerchia* and Letizia Sambri*

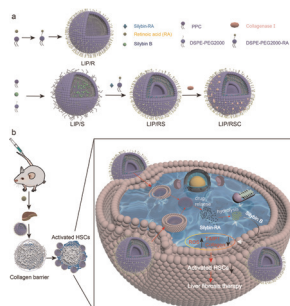
6865



Fabrication of blood capillary microtissues without fibroblast support via growth factors and matrix stiffness modulation

He Li, Fiona Louis and Michiya Matsusaki*

6879



Cationic PPC liposomes with dual targeting modules for enhanced liver fibrosis therapy via the extracellular matrix barrier

Yong Li, Yuanyuan Zhou, Lifang Wu, Quanyuan Gao and Wei Wang*

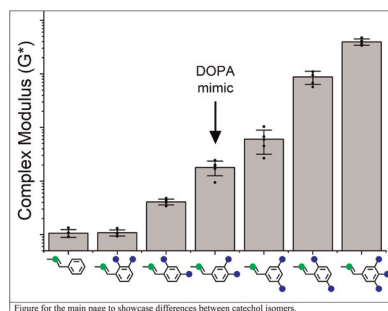


PAPERS

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Catechol isomers for moisture initiated bioadhesives

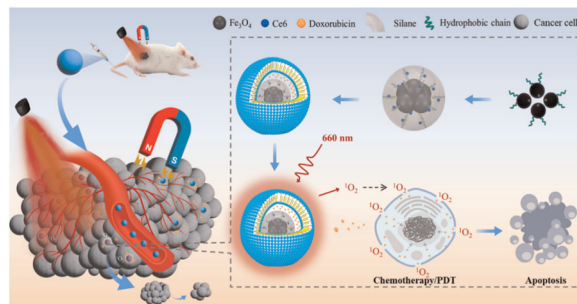
Konrad Kozłowski, Animesh Ghosh, Zong Yao Liu, Zhonghan Zhang, Shuzhou Li and Terry W. J. Steele*



6906

A trimodal magnetic navigation-enhanced nanoplatform for spatiotemporally controlled chemo-photodynamic synergistic cancer therapy

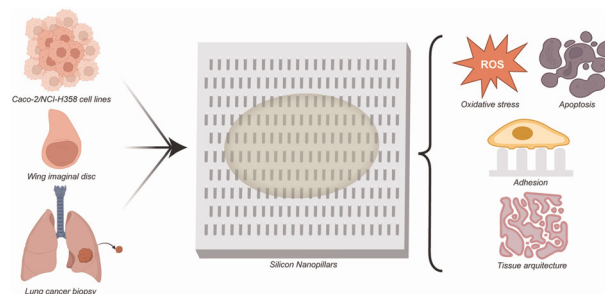
Cui Ma, Yaqi Cui, Bailong Liu, Min Liu,* Xia Chen* and Biao Dong*



6918

Silicon-based nanopillars: a novel platform for tissue applications

Cristiano Piergallini, Natalia Díaz-Valdivia, Alba Deyà, Patricia Fernández-Nogueira, Rahul Singh, Christian Vinther Bertelsen, Winnie Edith Svendsen, Montserrat Corominas, Lourdes Gombau, Héctor Sanz-Fraile, Noemí Reguart, Albert Romano-Rodríguez, Florenci Serras, Noemí de Luna, Jordi Alcaraz* and Marta Ollé-Monge*



CORRECTIONS

6932

Correction: TPP-coated Mo-doped W₁₈O₄₉ biodegradable nanomaterials with mitochondria-targeting and pH-responsive properties for synergistic photothermal therapy/chemodynamic therapy/chemotherapy

Yingjuan Ren, Wenhui Yi,* Jie Gao, Nan Wang* and Di Zhuang



CORRECTIONS

6933

Correction: Artificial testis: a testicular tissue extracellular matrix as a potential bio-ink for 3D printing

Zahra Bashiri, Iraj Amiri, Mazaher Gholipourmalekabadi, Reza Falak, Hamidreza Asgari, Chad B. Maki, Ali Moghaddaszadeh and Morteza Koruji*

