Journal of Materials Chemistry B

Materials for biology and medicine

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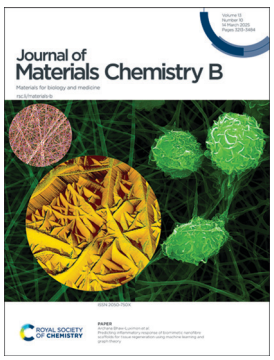

Cover
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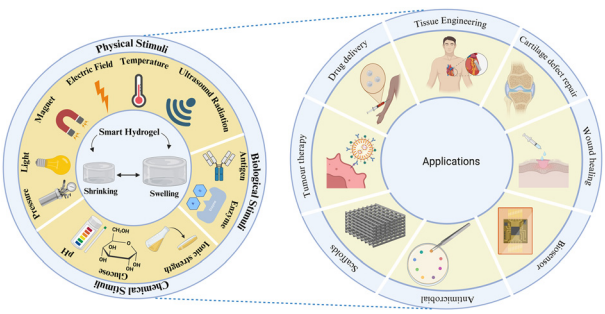
Danish Ahmad Shergujri, Murtaza Ahmad Khanday, Aisha Noor, Mohd Adnan, Iqra Arif, Syed Naiem Raza, Reyaz Hassan Mir* and Nisar Ahmad Khan*



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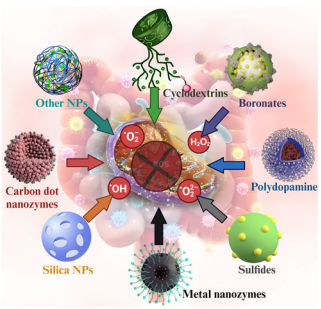
Precision therapeutics for inflammatory bowel disease: advancing ROS-responsive nanoparticles for targeted and multifunctional drug delivery

Xiuping Wan, Caijie Zhang, Pengyu Lei, Hanbing Wang, Rongbing Chen, Qinsi Yang, Yongwei Cheng, Wei Wu,* Da Sun* and Xiaofei Hong*



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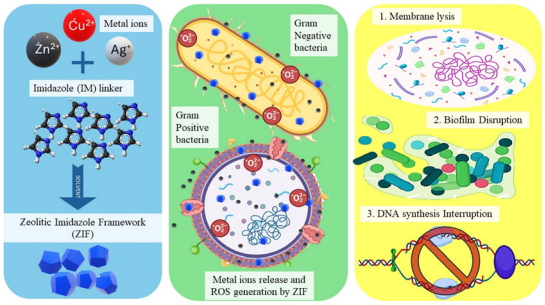
Unleashing the antibacterial potential of ZIFs and their derivatives: mechanistic insights

Geetika Jain, Radhika Chaurasia, Bani Preet Kaur, Ontar Paul Chowdhury, Hiranmay Roy, Richa Rani Gupta, Bhaskar Biswas, Sandip Chakrabarti* and Monalisa Mukherjee*



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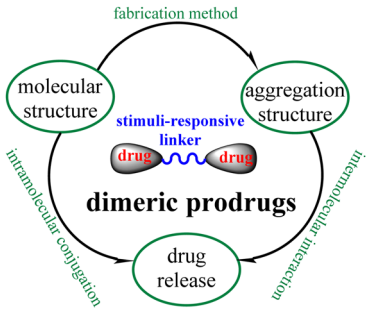
Structural aspects of dimeric prodrug-based carrier-free nanomedicines for tumor chemotherapy

Chen Yang and Peng Liu*



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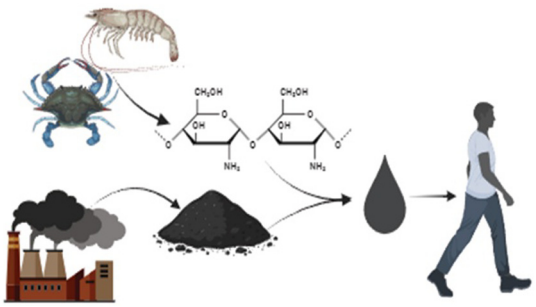
A low-cost biocompatible and biodegradable multipurpose resistive ink for monitoring biological systems

Akshayakumar Kompa, Revathi Ravindran, Jianyu Hao and Javier G. Fernandez*



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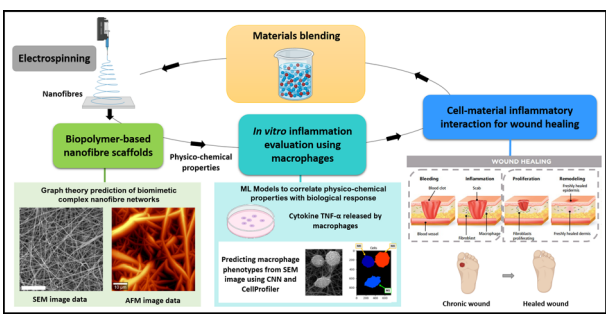
Predicting inflammatory response of biomimetic nanofibre scaffolds for tissue regeneration using machine learning and graph theory

Lakshmi Yaneesha Sujeeun, Itisha Chummun Phul, Nowsheen Goonoo, Nicholas A. Kotov and Archana Bhaw-Luximon*



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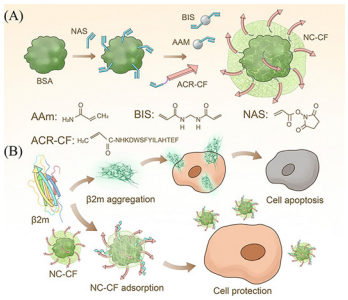

Peptide-functionalized nanocapsules for targeted inhibition of β2-microglobulin amyloid aggregation

Lin Tang, Miao Sun, Junnan Chen, Qiong Dai, Song Xue,* Chaoyong Liu* and Ming Zhang*

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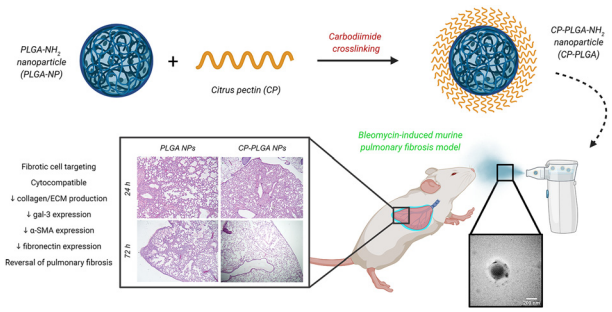

Citrus pectin-coated inhalable PLGA nanoparticles for treatment of pulmonary fibrosis

Kalindu Perera, Moez Ghumman, Parand Sorkhdini, Carmelissa Norbrun, Seraphina Negash, Yang Zhou* and Jyothi U. Menon*

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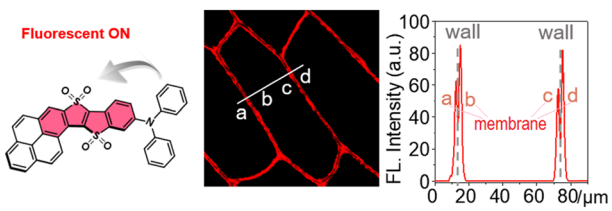

Ultra-photostable fluorescent dye molecular engineering—for measuring plant cells' membrane-spacing through a "deposition-embedding" strategy

Wendong Jin, Jie Huang, Jie Niu, Shiqian Zhang, Zhiqiang Liu* and Xiaoqiang Yu*

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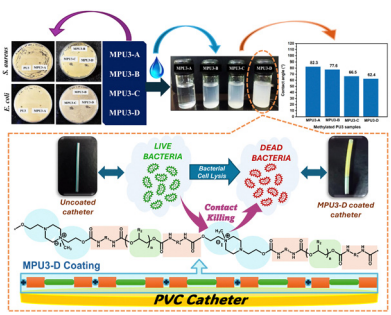

1,4-Bis(2-hydroxyethyl)piperazine-derived water-dispersible and antibacterial polyurethane coatings for medical catheters

Anchal Gupta, Simran Kaur Rainu, Manleen Kaur, Mahipal Meena, Neetu Singh and Josemon Jacob*

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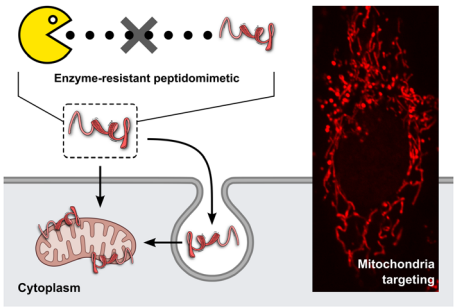
A non-hydrolysable peptidomimetic for mitochondrial targeting

Yeray Folgar-Cameán, Daniel Torralba-Maldonado, Patricia Fulias-Guzmán, Marta Pazo, Irene Máximo-Moreno, Miriam Royo, Ona Illa* and Javier Montenegro*



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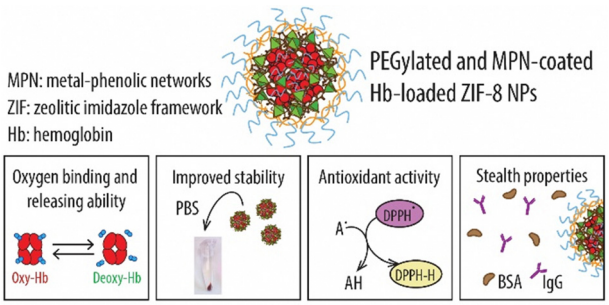
Hemoglobin-loaded ZIF-8 nanoparticles equipped with PEGylated metal-phenolic network coatings: an oxygen carrier with antioxidant and stealth properties

Clara Coll-Satue, Eva Cabrera-San Millan, Michelle Maria Theresia Jansman, Lisa Arnholdt and Leticia Hosta-Rigau*



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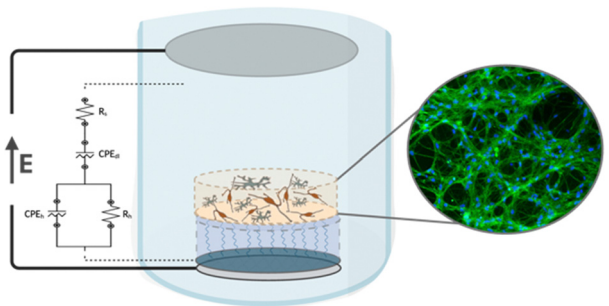
Multi-layered electrode constructs for neural tissue engineering

Marjolaine Boulingre, Mateusz Chodkowski, Roberto Portillo Lara, Aaron Lee, Josef Goding and Rylie A. Green*



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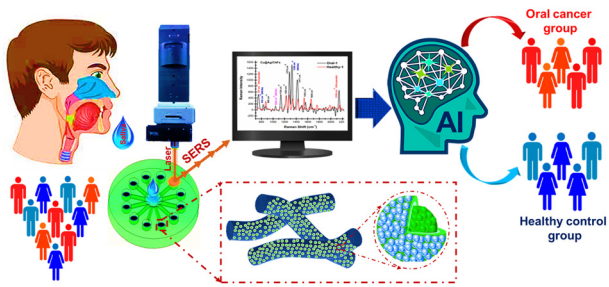
Development of an AI-derived, non-invasive, label-free 3D-printed microfluidic SERS biosensor platform utilizing Cu@Ag/carbon nanofibers for the detection of salivary biomarkers in mass screening of oral cancer

Navami Sunil, Rajesh Unnathpadi, Rajkumar Kottayasamy Seenivasagam, T. Abhijith, R. Latha, Shina Sheen and Biji Pullithadathil*



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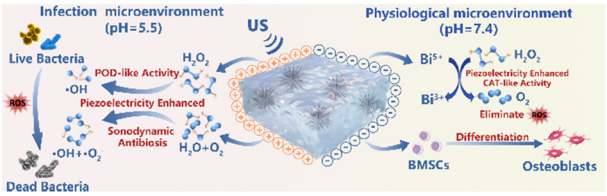

A piezoelectric hydrogel containing bismuth sulfide with cationic vacancies with enhanced sonodynamic/nanozyme activity for synergistically killing bacteria and boosting osteoblast differentiation

Xiaowen Xi, Susu Ma, Ping Sun,* Zhitao Hu, Jie Wei* and Yunfei Niu*

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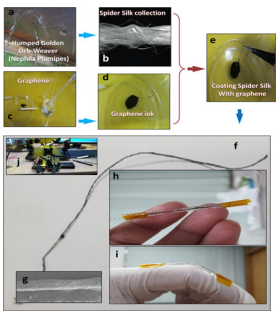

Polyurethane packed graphene-coated spider silk by dip-casting for a highly stretchable strain sensor

Zaigham Abbas, Gul Hassan,* Muhammad Umair Khan, Haider Abbas, Basheer Ahmad, Ahmed Shuja, Memoon Sajid, Jinho Bae* and Changhwan Choi*

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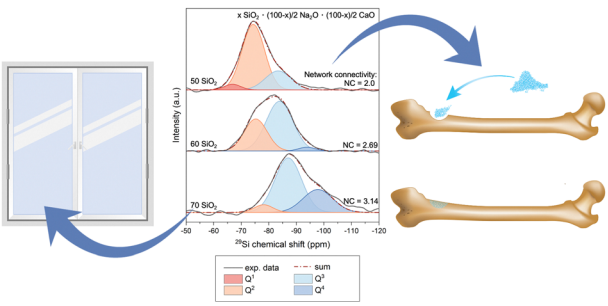

From window panes to bone regeneration: structure, viscosity and bioactivity of soda lime silicate glasses

Zhaorui Jin, Daniel R. Neuville,* Coraline Chartier, Pavel Kachanov, Scott Kroeker, Stéphane Gin, Jincheng Du* and Delia S. Brauer*

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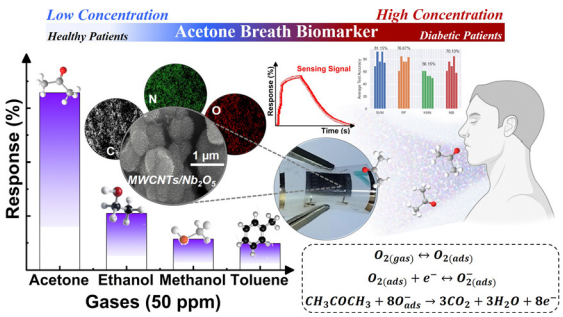

Room temperature operated flexible MWCNTs/Nb_2O_5 hybrid breath sensor for the non-invasive detection of an exhaled diabetes biomarker

Gulshan Verma, Sonu Sarraf, Aviru K. Basu, Pranay Ranjan and Ankur Gupta*

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Polycaprolactone/α-cyclodextrin polyrotaxanes with cellular uptake enhancing properties

Gergely Kali,* Alexander H. Mayer, Dennis To, Martyna Truszkowska, Anna Seybold, Doris Elfriede Braun, Raphael Plangger, Markus Gallei and Andreas Bernkop-Schnürch*