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See Hongying Liu,
Zheng-Zhi Yin,
Zhong Lü *et al.*,
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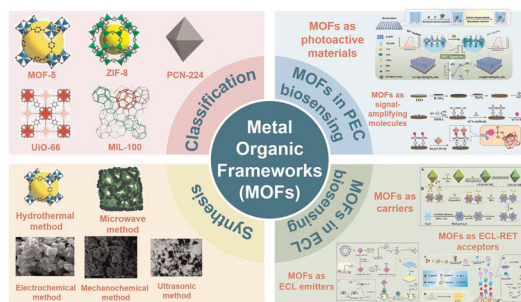
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CRITICAL REVIEW

2200

Recent advances in metal–organic framework-based photoelectrochemical and electrochemiluminescence biosensors

Jiao Qin, Jinjin Li, Haisen Zeng, Juan Tang* and
Dianping Tang*

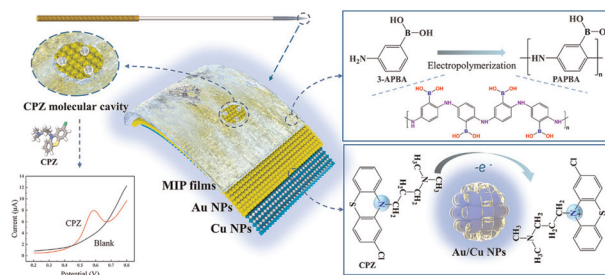


PAPERS

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An electrochemical chlorpromazine sensor based on a gold–copper bimetallic synergetic molecularly imprinted interface on an acupuncture needle electrode

Jiandan Chen, Hongying Liu,* Chenwei Wang, Kai Fan,
Lihua Li, Yuqing Zhang, Lu Fang, Zheng-Zhi Yin* and
Zhong Lü*



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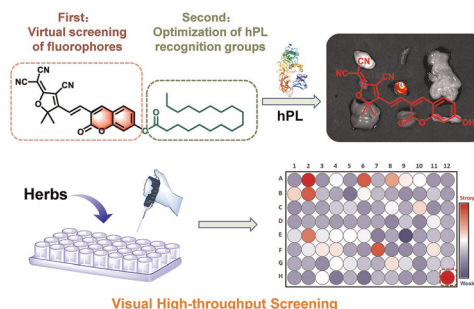


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A rationally engineered specific near-infrared fluorogenic substrate of human pancreatic lipase for functional imaging and inhibitor screening

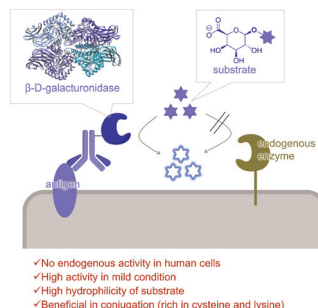
Fan-Bin Hou, Na Zhang, Xu-Dong Hou, Wei Liu, Yu-Fan Fan, Guang-Hao Zhu, Yue Wu, Meng-Ru Sun, Bei Zhao, Guang-Bo Ge* and Ping Wang*



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A human cell orthogonal enzyme β -D-galacturonidase for sensitive detection of antigen proteins

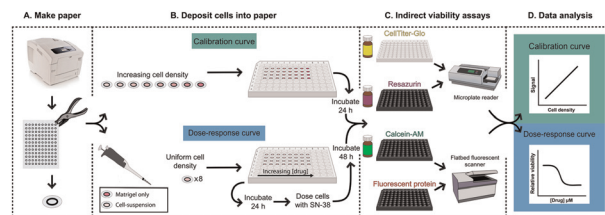
Chuya Tateishi, Akihiro Koga, Atsuhiko Matsuura, Ryosuke Kaneko, Kenta Tanito, Teruki Nii, Akihiro Kishimura, Takeshi Mori* and Yoshiki Katayama*



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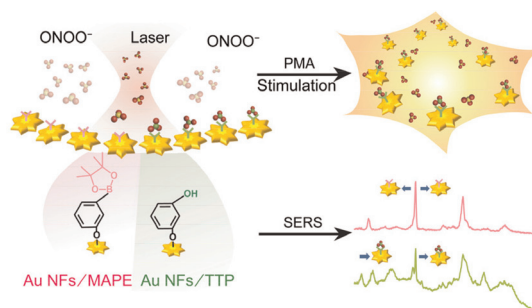
Zachary R. Sitte, Tyler S. Larson, Julie C. McIntosh, Melanie Sinanian and Matthew R. Lockett*



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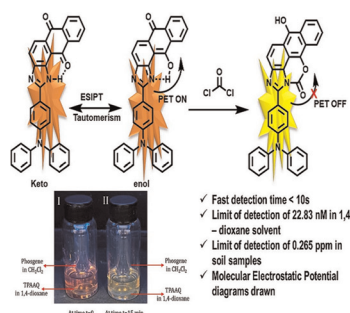
Highly selective and sensitive surface-enhanced Raman scattering sensors for the detection of peroxynitrite in cells

Xinyu Liu, Changchun Zhao, Minyan Zhuang, Xin Meng,* Peng Zhang* and Guohai Yang*



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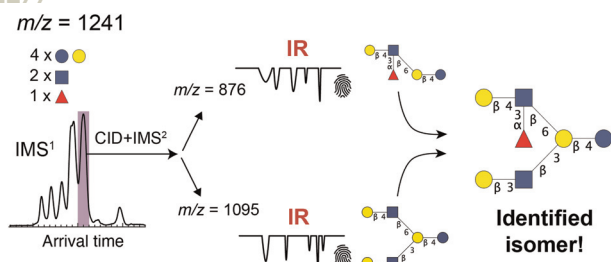
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ESIPT-PET based triphenylamine-anthraquinone probe for the detection of phosgene: DFT studies, real-time application in soil samples and test strips

Ramakrishnan Abhijnakrishna and Sivan Velmathi*

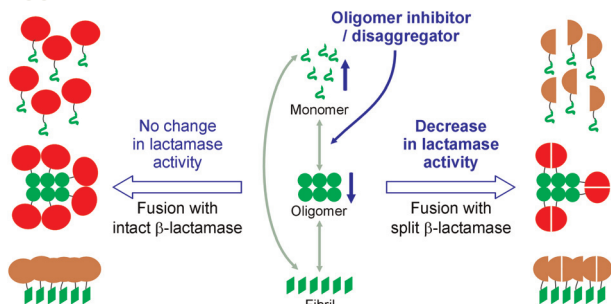
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Identification of human milk oligosaccharide positional isomers by combining IMS-CID-IMS and cryogenic IR spectroscopy

Ali H. Abikhodr, Ahmed Ben Faleh, Stephan Warnke, Vasylyatsyna and Thomas R. Rizzo*

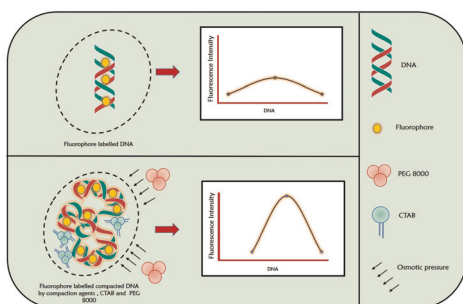
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A protein aggregation platform that distinguishes oligomers from amyloid fibrils

Amy Zhang, Diana Portugal Barron, Erica W. Chen and Zhefeng Guo*

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DNA compaction enhances the sensitivity of fluorescence-based nucleic acid assays: a game changer in point of care sensors?

Sujesh Sudarsan, Anusha Prabhu, Dinesh Prasad and Naresh Kumar Mani*

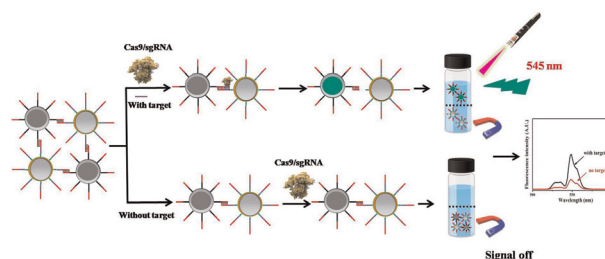


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The construction of CRISPR/Cas9-mediated FRET 16S rDNA sensor for detection of *Mycobacterium tuberculosis*

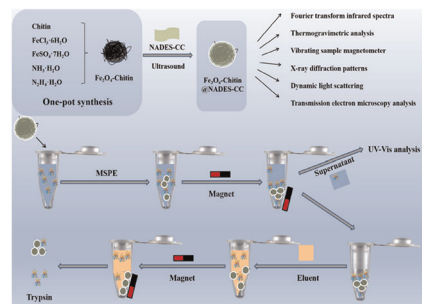
Ming Zhou, Xin Li, Herui Wen, Bin Huang, Jiali Ren* and Jialin Zhang*



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Biomass-derived magnetic nanocomposites modified by choline chloride/citric acid based natural deep eutectic solvents for the magnetic solid phase extraction of trypsin

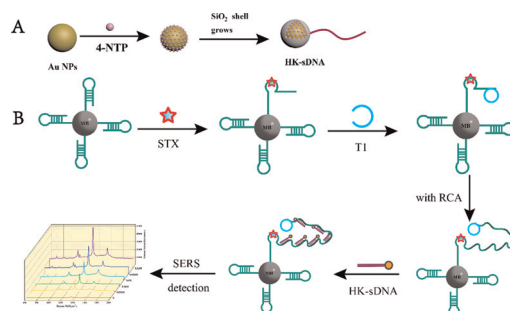
Jing Chen,* Fangting Xu and Yuzhi Wang*



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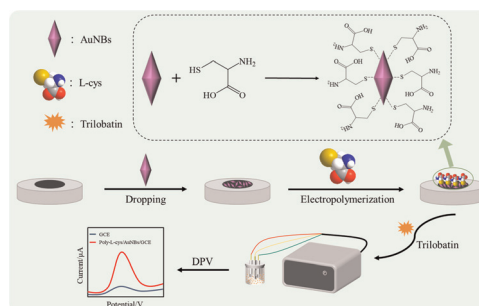
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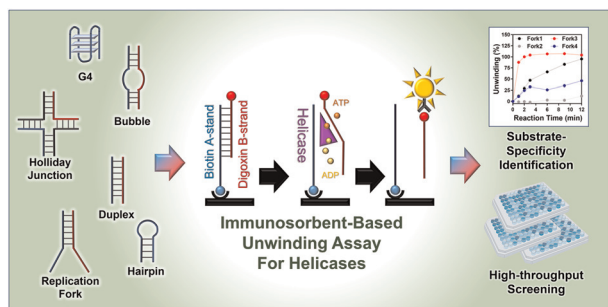
A novel electrochemical sensor based on gold nanobipyramids and poly-L-cysteine for the sensitive determination of trilobatin

Xue Mei, Wenchang Wang,* Qingyi Li, Minxian Wu, Liyin Bu and Zhidong Chen*



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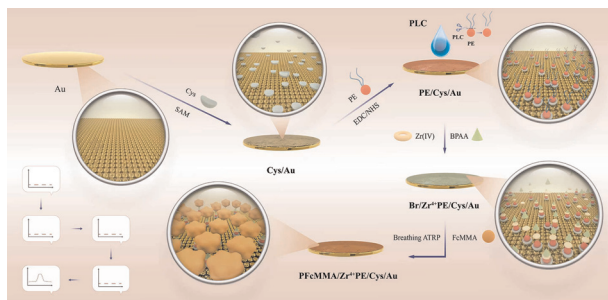
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A rapid and highly sensitive immunosorbent assay to monitor helicases unwinding diverse nucleic acid structures

Jia-En Wang, Ying-Chen Zhou, Bi-Han Wu, Xiu-Cai Chen, Junqiu Zhai, Jia-Heng Tan, Zhi-Shu Huang and Shuo-Bin Chen*

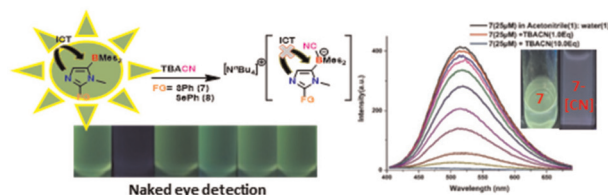
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An ultrasensitive electrochemical sensor for phospholipase C via signal amplification based on breathing ATRP and its application

Xiwen Li, Peiran Meng, Mingyang Sun, Yue Chen, Zhiyi Song, Xinyao Wang, Na Li and Yue Sun*

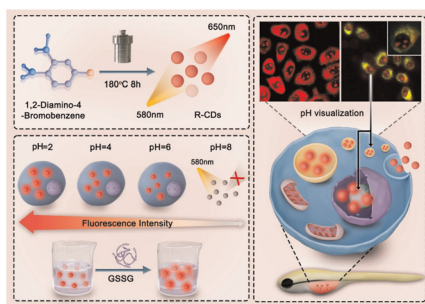
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Organochalcogen substituted dimesityl borane-imidazoles as fluorogenic fluoride and cyanide sensors in aqueous media

Sabeeha Parveen, Farha Naaz, Dasari L. V. K. Prasad* and Ganapathi Anantharaman*

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Preparation and application of high-brightness red carbon quantum dots for pH and oxidized L-glutathione dual response

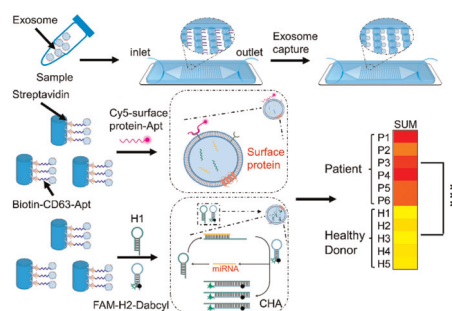
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Rapid exosome isolation and *in situ* multiplexed detection of exosomal surface proteins and microRNAs on microfluidic platform

Yulin Chen, Dan Gao,* Qingyun Zhu, Bizhu Chu, Jie Peng, Jian Wang, Liping Liu and Yuyang Jiang



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Two-color infrared photothermal microscopy

Chanjong Park, Jong Min Lim, Seok-Cheol Hong and Minhaeng Cho*

