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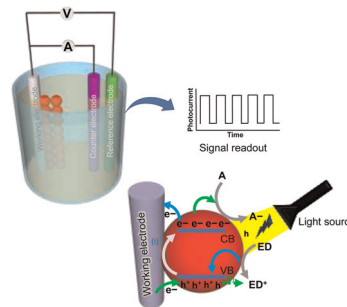
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CRITICAL REVIEW

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Semiconductor quantum dots in photoelectrochemical sensors from fabrication to biosensing applications

Anjum Qureshi,* Tayyaba Shaikh and Javed H. Niazi*

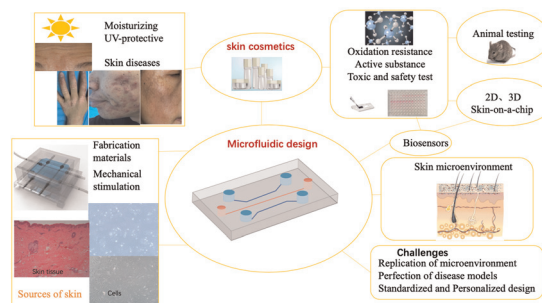


TUTORIAL REVIEW

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Advancements in microfluidics for skin cosmetic screening

Nianfang Hu, Kerun Cheng, Shuhan Zhang, Shan Liu, Lijun Wang, Xiaoxin Du, Yong Li* and Chenzhong Li*



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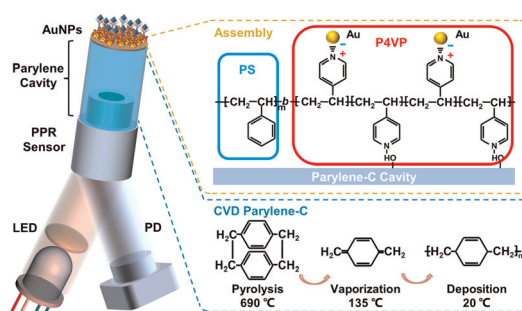
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A parylene-mediated plasmonic–photonic hybrid fiber-optic sensor and its instrumentation for miniaturized and self-referenced biosensing

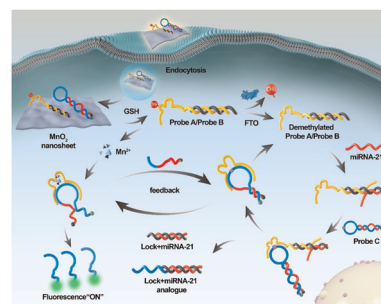
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High-fidelity imaging of intracellular microRNA via a bioorthogonal nanoprobe

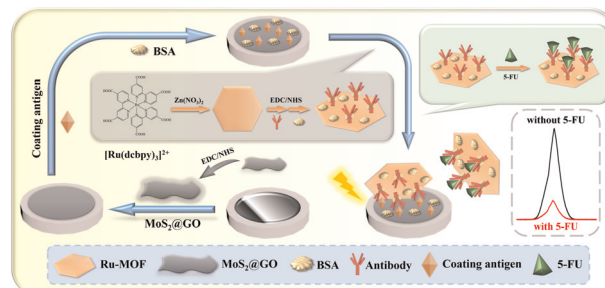
Hengyi Chen, Xiaohui Chen, Yi Chen, Chong Zhang, Zixin Sun, Jiayi Mo, Yongzhong Wang, Jichun Yang,* Dongsheng Zou* and Yang Luo*



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Electrochemiluminescence immunoassay strategies based on a hexagonal Ru-MOF and MoS₂@GO nanosheets: detection of 5-fluorouracil in serum samples

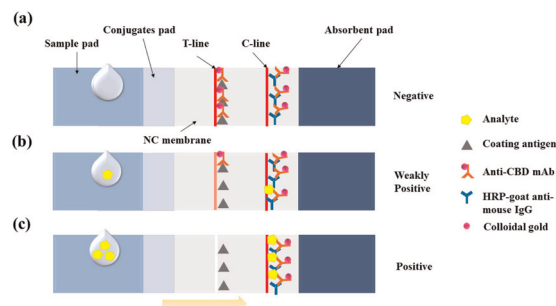
Guoyu Ma, Lu Peng, SunXiaoYi Zhang, Kang Wu,* Anping Deng* and Jianguo Li*



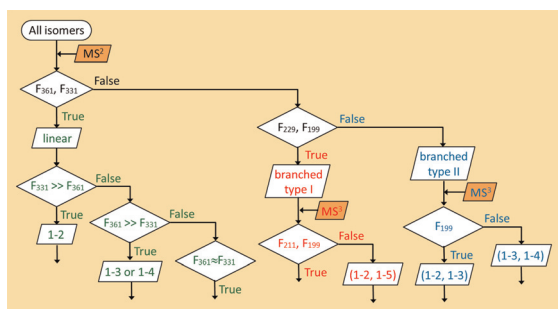
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Development of a gold nanoparticle-based lateral-flow strip for the detection of cannabidiol in functional beverages

Shuai Lv, Xinxin Xu, Lingling Guo, Liguang Xu, Liqiang Liu,* Hua Kuang and Chuanlai Xu*



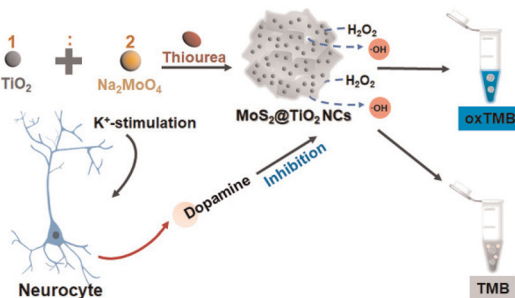
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A simple tandem mass spectrometry method for structural identification of pentose oligosaccharides

Shang-Ting Tsai, Hsu-Chen Hsu and Chi-Kung Ni*

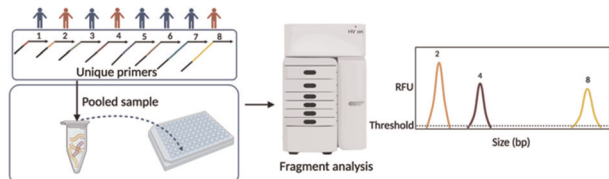
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Controllable synthesis of MoS₂@TiO₂ nanocomposites for visual detection of dopamine secretion with highly-efficient enzymatic activity

Chonghui Wei, Xuan Xie, Yue Mou, Shiqi Cheng, Jin Yang, Kaixin Xue, Kewei Yu, Xinru Lin, Chunfen Zhang, Yujie Zhao,* Xingyu Luo* and Yilin Wang

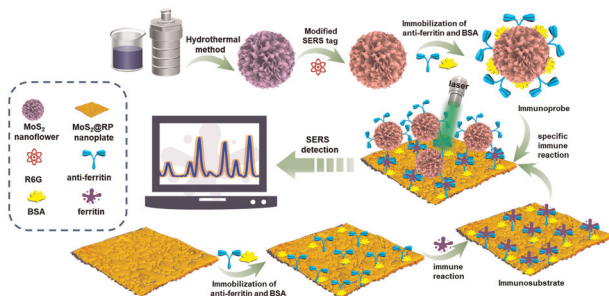
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Efficient large-scale screening of viral pathogens by fragment length identification of pooled nucleic acid samples (FLIPNAS)

Xianzhen Feng, Xinyu Zhuang, Grace Lui and I-Ming Hsing*

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A non-metallic SERS-based immunoassay founded by light-harvesting effect and strengthened chemical enhancement

Jiali Ma, Wenxin Dong, Tao Xu, Guodong Wei, Chenjie Gu* and Tao Jiang*

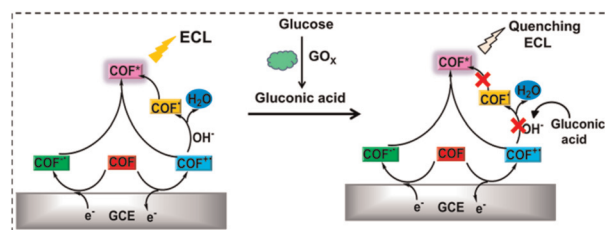


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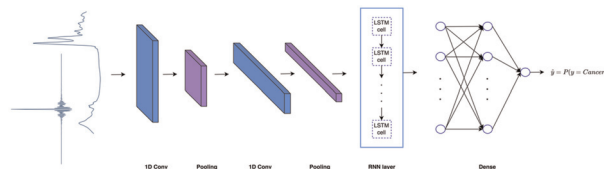
Maoding Zuo, Lin Cui,* Shuangwen Wang, Wengui Wei, Wenqiang Gao* and Chun-yang Zhang*



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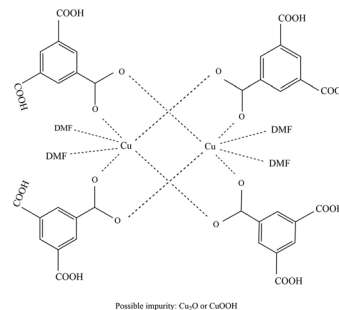
Georgios Antoniou, Justin J. A. Conn, Benjamin R. Smith, Paul M. Brennan, Matthew J. Baker and David S. Palmer*



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Sensing interface based on electrodeposited Cu-BTC microporous film for electrochemical detection of the painkiller paracetamol

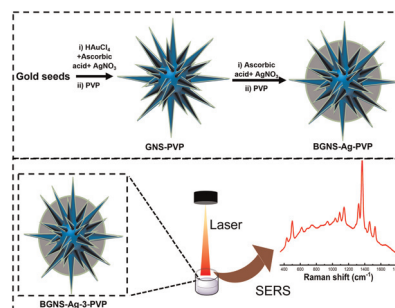
Nguyen Tien Dat, Nguyen Ngoc Tien, Nguyen Thi Thanh Ngan and Vu Thi Thu*



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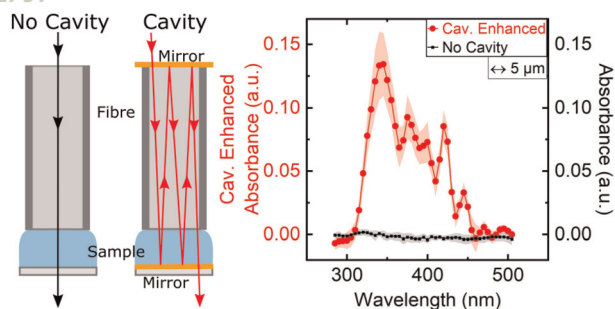
A hybrid plasmonic nanoprobe using polyvinylpyrrolidone-capped bimetallic silver–gold nanostars for highly sensitive and reproducible solution-based SERS sensing

Supriya Atta and Tuan Vo-Dinh*



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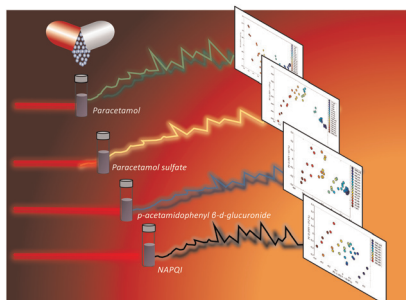
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Broadband cavity enhanced UV-VIS absorption spectroscopy for picolitre liquid samples

Imogen M. Fermor-Worth and Catalin Chimerel*

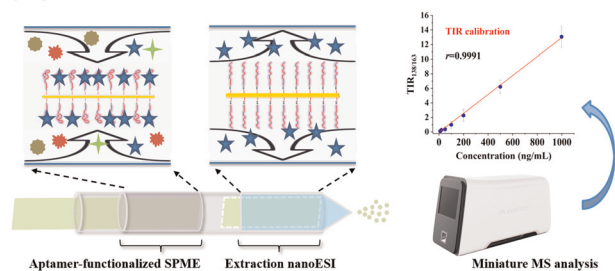
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Rapid detection and quantification of paracetamol and its major metabolites using surface enhanced Raman scattering

Najla AlMasoud, Taghrid S. Alomar, Yun Xu, Cassio Lima and Royston Goodacre*

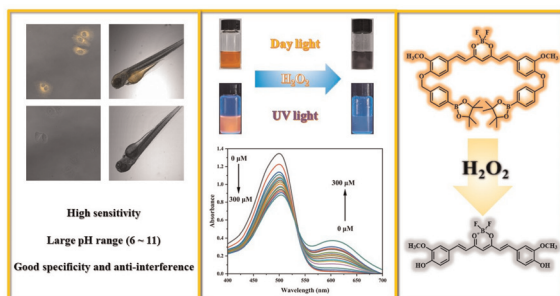
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Online hyphenation of in-capillary aptamer-functionalized solid-phase microextraction and extraction nano-electrospray ionization for miniature mass spectrometry analysis

Yueguang Lv, Yuhan Shang, Linsen Li, Ying Zhang and Qiang Ma*

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A highly effective "naked eye" colorimetric and fluorimetric curcumin-based fluorescent sensor for specific and sensitive detection of H₂O₂ *in vivo* and *in vitro*

Wenhao Du, Zheyu Shen, Yueying Liang, Shuai Gong, Zhiyuan Meng, Mingxing Li, Zhonglong Wang* and Shifa Wang*

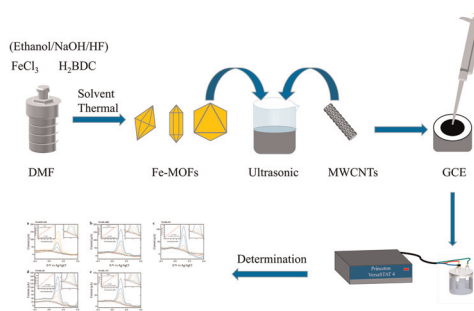


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A series of ultrasensitive electrocatalysts Fe-MOF/MWCNTs for fentanyl determination

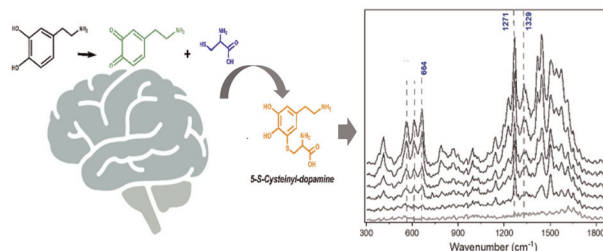
Zhidong Zhao, Yuan He, Xingrui Qi, Nian Li, Zijian He, Yufang Chen and Tao Jin*



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SERS-based detection of 5-S-cysteinyl-dopamine as a novel biomarker of Parkinson's disease in artificial biofluids

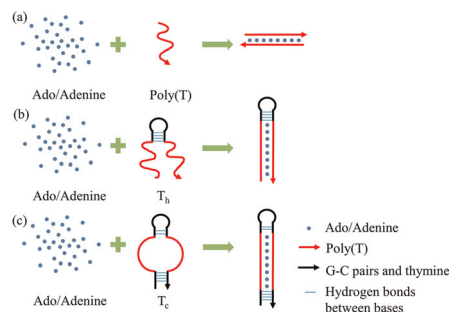
Isidro Badillo-Ramírez,* Bruno Landeros-Rivera, José M. Saniger, Jürgen Popp and Dana Cialla-May



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Enriching adenosine by thymine-rich DNA oligomers

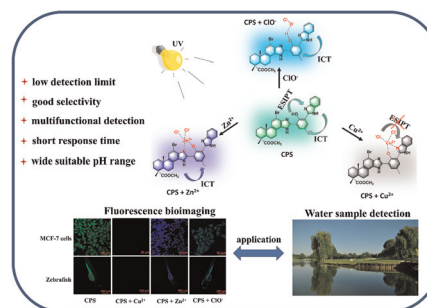
Mingchun Liu, Huaiqing Chen, Yuhan Huang, Jian Liu, Qianfeng Chen, Hua Zuo, Liang Fang* and Chengde Mao*



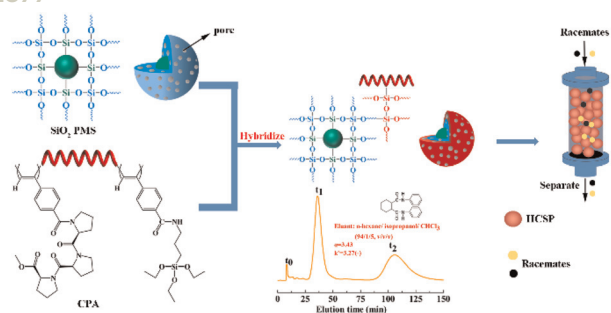
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A novel dehydroabietic acid-based multifunctional fluorescent probe for the detection and bioimaging of Cu²⁺/Zn²⁺/ClO⁻

Lu Sun, Zhonglong Wang, Linlin Chen, Xuebao Sun, Zihui Yang and Wen Gu*



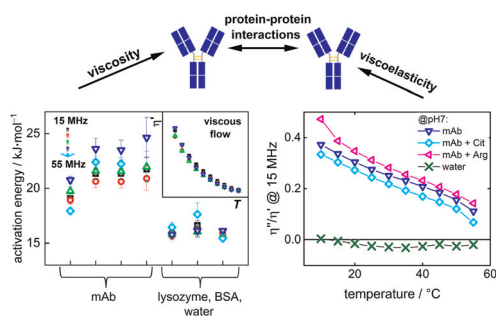
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Hybridization of helical poly(phenylacetylene)s bearing L-proline tripeptide pendants into porous silica microspheres as a solvent-tolerable chiral stationary phase for liquid chromatography

Jiahe Huang, Zhengjin Zhou, Chunhong Zhang,*
Chao Wang, Yanli Zhou, Lijia Liu,* Junqing Li,*
Toshifumi Satoh and Yoshio Okamoto

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Protein–protein interactions in solutions of monoclonal antibodies probed by the dependence of the high-frequency viscosity on temperature and concentration

Emily Rott, Christian Leppin,* Tim Diederichs,
Patrick Garidel and Diethelm Johannsmann

