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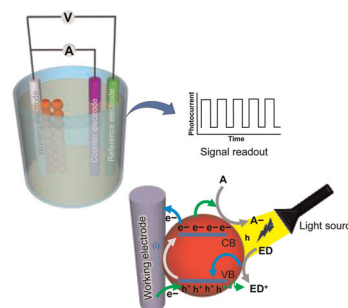
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CRITICAL REVIEW

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Semiconductor quantum dots in photoelectrochemical sensors from fabrication to biosensing applications

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

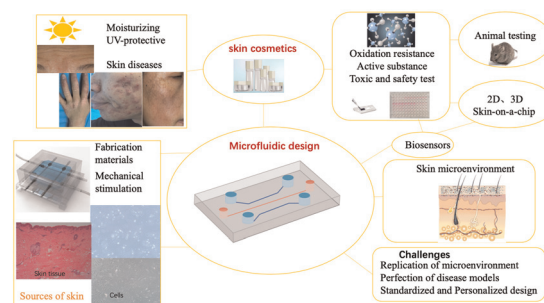


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Advancements in microfluidics for skin cosmetic screening

Nianfang Hu, Kerun Cheng, Shuhan Zhang, Shan Liu,
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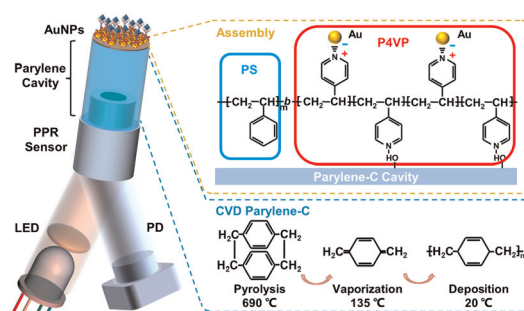


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A parylene-mediated plasmonic–photonic hybrid fiber-optic sensor and its instrumentation for miniaturized and self-referenced biosensing

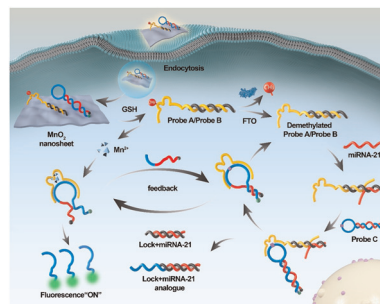
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High-fidelity imaging of intracellular microRNA via a bioorthogonal nanoprobe

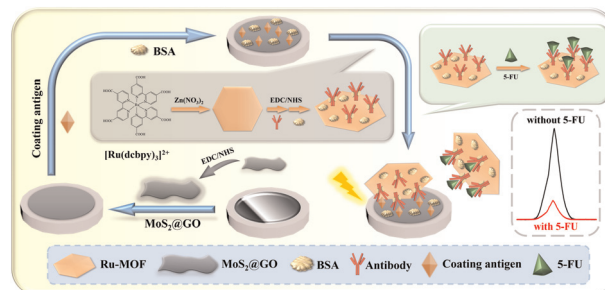
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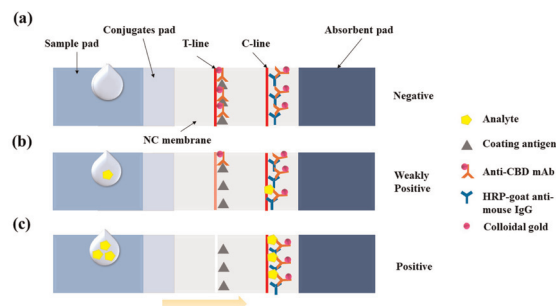
Guoyu Ma, Lu Peng, SunXiaoYi Zhang, Kang Wu,* Anping Deng* and Jianguo Li*



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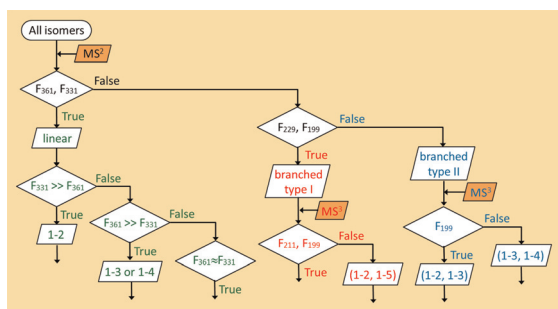
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Shuai Lv, Xinxin Xu, Lingling Guo, Liguang Xu, Liqiang Liu,* Hua Kuang and Chuanlai Xu*



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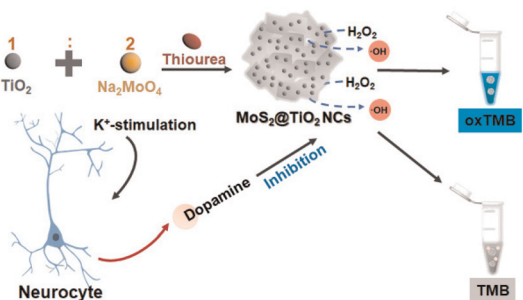
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A simple tandem mass spectrometry method for structural identification of pentose oligosaccharides

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

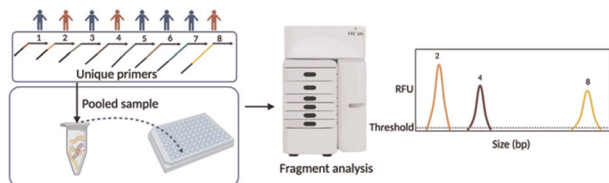
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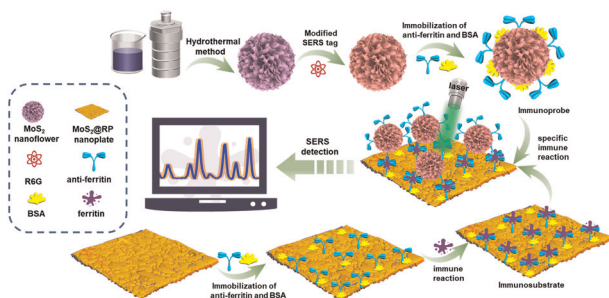
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Efficient large-scale screening of viral pathogens by fragment length identification of pooled nucleic acid samples (FLIPNAS)

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*

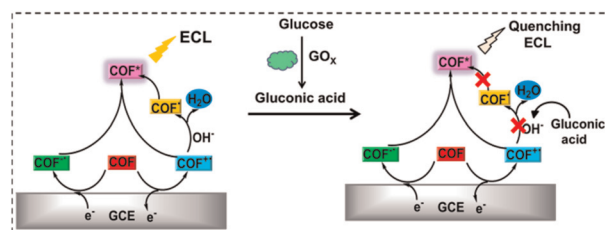


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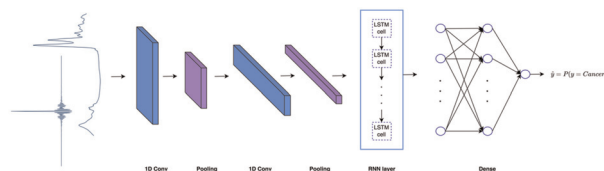
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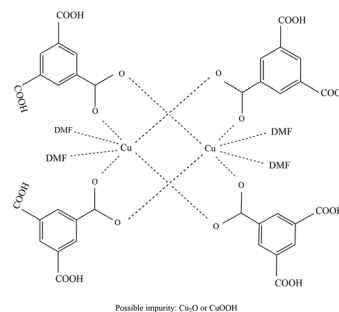
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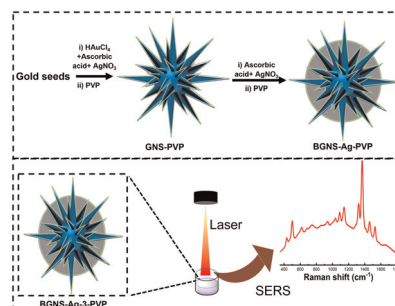
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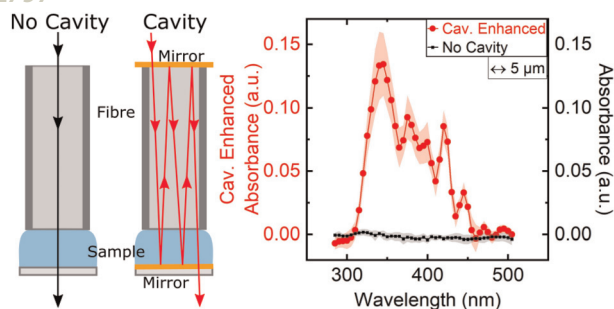
A hybrid plasmonic nanoprobe using polyvinylpyrrolidone-capped bimetallic silver–gold nanostars for highly sensitive and reproducible solution-based SERS sensing

Supriya Atta and Tuan Vo-Dinh*



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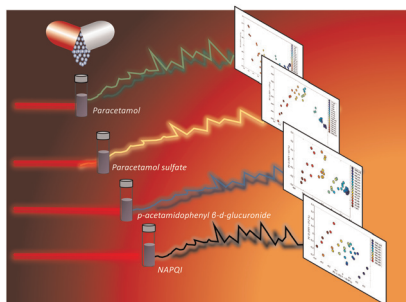
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Broadband cavity enhanced UV-VIS absorption spectroscopy for picolitre liquid samples

Imogen M. Fermor-Worth and Catalin Chimere^{l*}

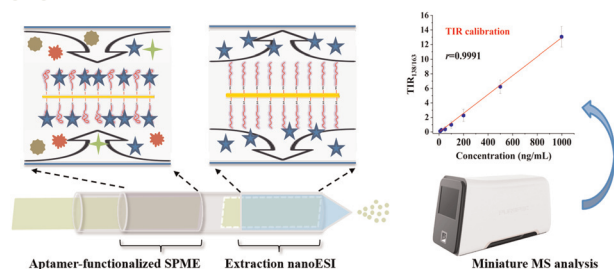
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Rapid detection and quantification of paracetamol and its major metabolites using surface enhanced Raman scattering

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

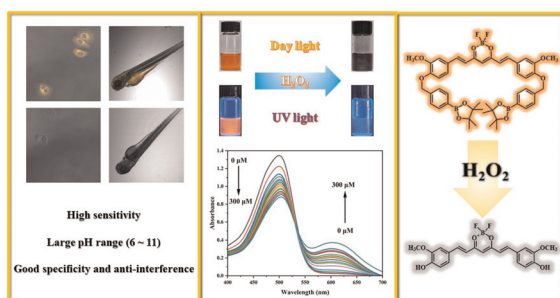
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Online hyphenation of in-capillary aptamer-functionalized solid-phase microextraction and extraction nanoelectrospray ionization for miniature mass spectrometry analysis

Yueguang Lv, Yuhang 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*

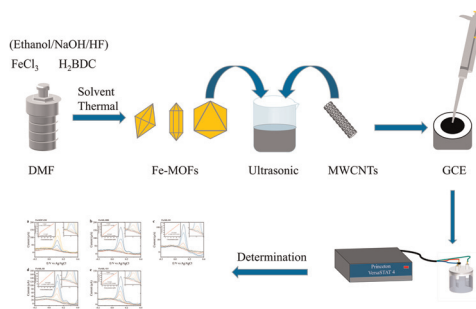
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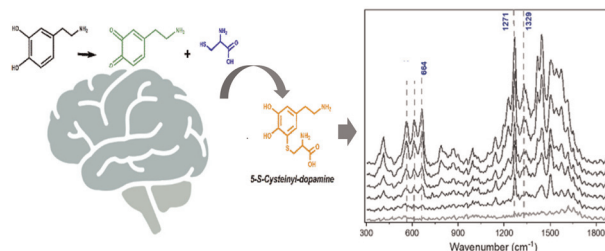
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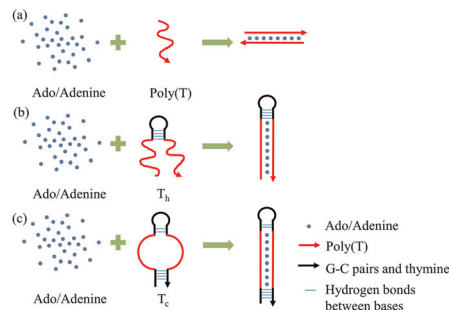
Isidro Badillo-Ramírez,* Bruno Landeros-Rivera, José M. Saniger, Jürgen Popp and Dana Cialla-May



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Enriching adenosine by thymine-rich DNA oligomers

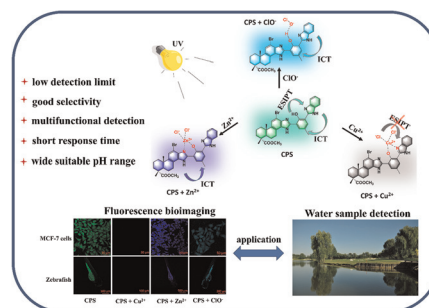
Mingchun Liu, Huaqing Chen, Yuhan Huang, Jian Liu, Qianfeng Chen, Hua Zuo, Liang Fang* and Chengde Mao*



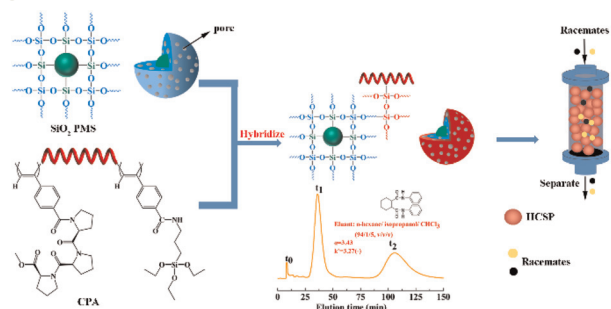
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A novel dehydroabietic acid-based multifunctional fluorescent probe for the detection and bioimaging of $\text{Cu}^{2+}/\text{Zn}^{2+}/\text{ClO}^-$

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



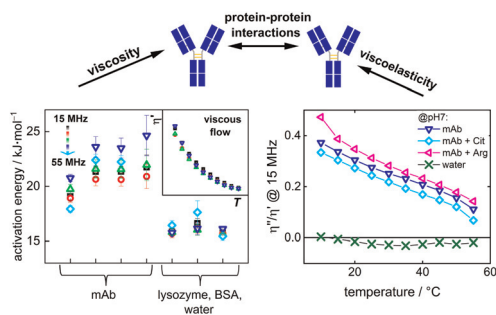
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Hybridization of helical poly(phenylacetylene)s bearing L-proline tripeptide pendants into porous silica microspheres as a solvent-tolerable chiral stationary phase for liquid chromatography

Jiahe Huang, Zhengjin Zhou, Chunhong Zhang,*
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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,
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