

Analyst

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See H. Cumhur Tekin,
Meltem Elitas *et al.*,
pp. 5588–5596.

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CRITICAL REVIEW

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Solvent-free strategies for developing latent fingerprints on paper: a review

Kristen T. Clarke, Sarah L. Cresswell and William J. Gee*

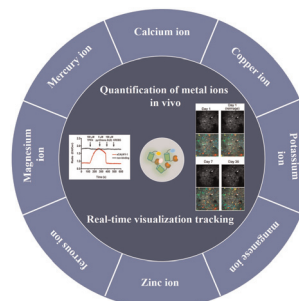


TUTORIAL REVIEW

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Genetically encoded protein sensors for metal ion detection in biological systems: a review and bibliometric analysis

Yuxueyuan Chen, ShuChao Pang, Jingya Li, Yun Lu,
Chenxia Gao, Yanyu Xiao, Meiling Chen,* Meng Wang*
and Xiaoliang Ren



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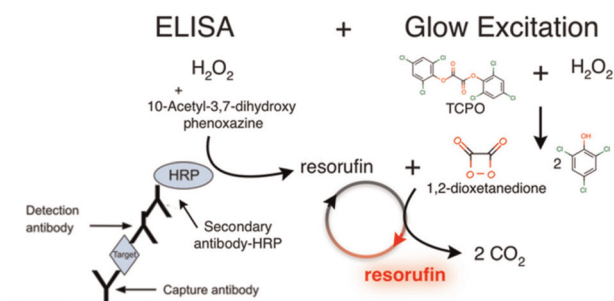


COMMUNICATION

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"Glow ELISA": sensitive immunoassay with minimal equipment and stable reagents

Binh V. Vu,* Kristen Brosamer, Naiyah McDaniel, Katerina Kourentzi, Richard C. Willson* and Harshica Fernando*

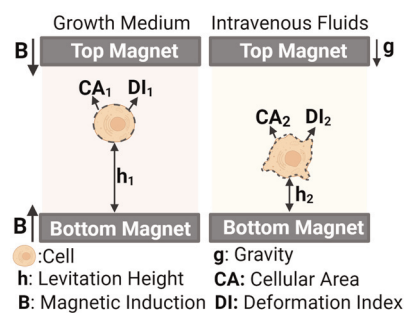


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Investigating influences of intravenous fluids on HUVEC and U937 monocyte cell lines using the magnetic levitation method

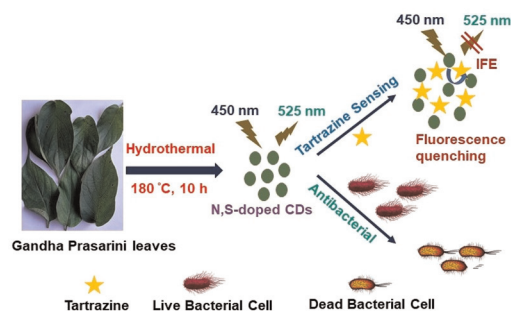
Seren Kecili, Sumeyra Vural Kaymaz, Beyzanur Ozogul, H. Cumhur Tekin* and Meltem Elitas*



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Green synthesis of N,S-doped carbon dots for tartrazine detection and their antibacterial activities

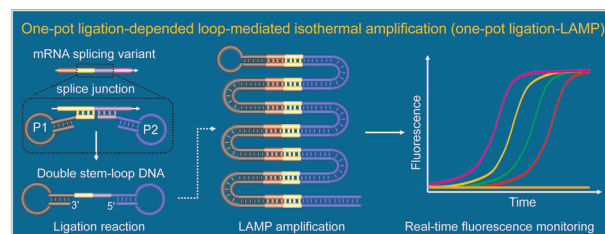
Tanmayee Mohanta, Himadri Gourav Behuria, Santosh Kumar Sahu, Ashis Kumar Jena* and Swagatika Sahu*



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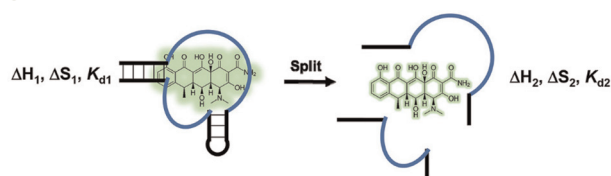
Specific recognition and sensitive quantification of mRNA splice variants via one-pot ligation-dependent loop-mediated isothermal amplification

Mai Zhang, Hui Wang,* Jun Han, Honghong Wang, Yuting Jia, Weixiang Hong, Fu Tang and Zhengping Li*



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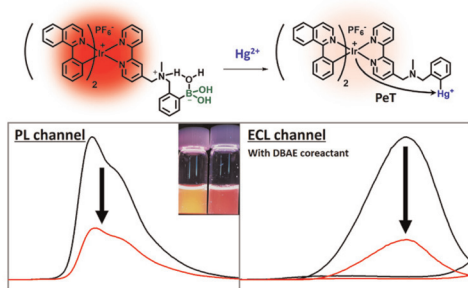
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Light-up split aptamers: binding thermodynamics and kinetics for sensing

Yichen Zhao, Nikesh Patel, Peihuan Sun, Karen Faulds, Duncan Graham* and Juewen Liu*

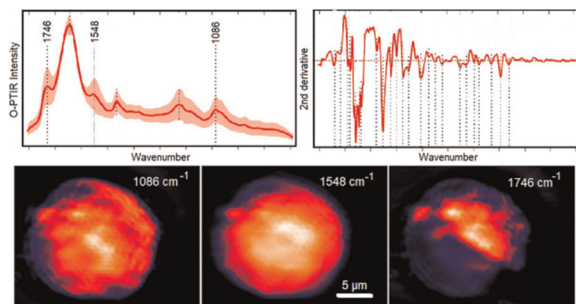
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A photoluminescent and electrochemiluminescent probe based on an iridium(III) complex with a boronic acid-functionalised ancillary ligand for the selective detection of mercury(II) ions

Kyoung-Rok Kim, Jinrok Oh and Jong-In Hong*

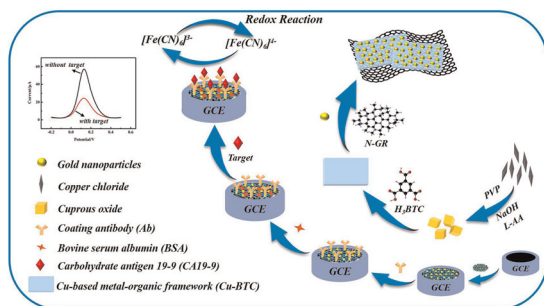
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Optical photothermal infrared spectroscopy and discrete wavenumber imaging for high content screening of single cells

Tanveer Ahmed Shaik, Anuradha Ramoji, Nils Milis, Jürgen Popp and Christoph Krafft*

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Hairpin DNA-based electrochemical amplification strategy for miRNA sensing by using single gold nanoelectrodes

Hao Wang, Binbin Yang, Haoran Tang, Sufang Ding and Gen Liu*

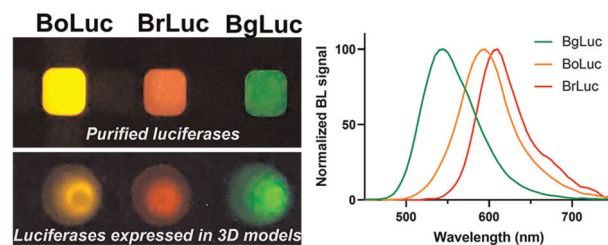


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New synthetic red- and orange-emitting luciferases to upgrade *in vitro* and 3D cell biosensing

Maria Maddalena Calabretta, Denise Gregucci and Elisa Michelini*



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Fusion data from FT-IR and MALDI-TOF MS result in more accurate classification of specific microbiota

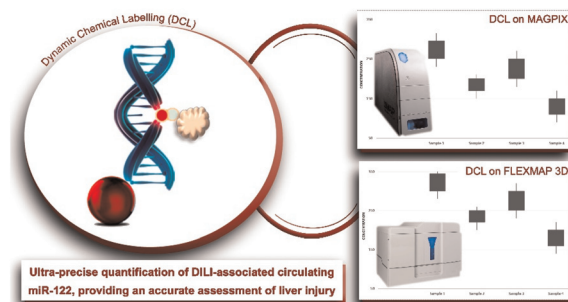
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MAGPIX and FLEXMAP 3D Luminex platforms for direct detection of miR-122-5p through dynamic chemical labelling

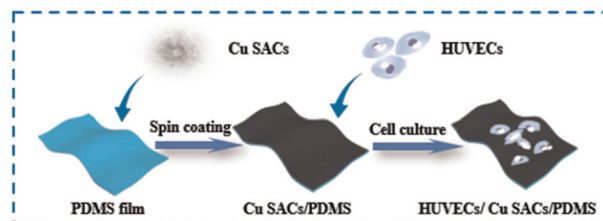
Antonio Marín-Romero, Valerie Regele, Dajana Kolanovic, Manuela Hofner, Juan José Díaz-Mochón, Christa Nöhammer and Salvatore Pernagallo*



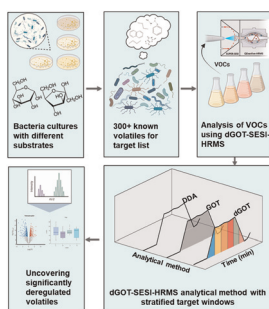
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Cu single-atom catalyst-based flexible hydrogen peroxide electrochemical sensor with oxygen resistance for monitoring ROS bursts

Meihong Peng, Jing Jiang, Shutong Chen, Kai Li* and Yuqing Lin*



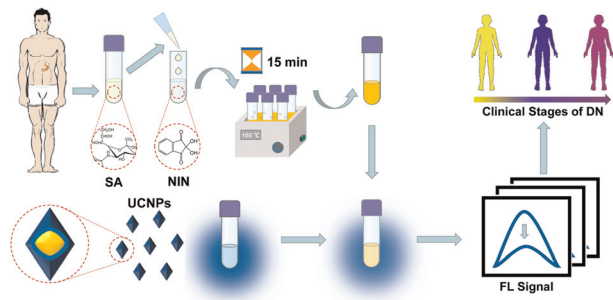
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Database-assisted, globally optimized targeted secondary electrospray ionization high resolution mass spectrometry (dGOT-SESI-HRMS) and spectral stitching enhanced volatilomics analysis of bacterial metabolites

Fouad Choueiry, Rui Xu, Kelly Meyrath and Jiangjiang Zhu*

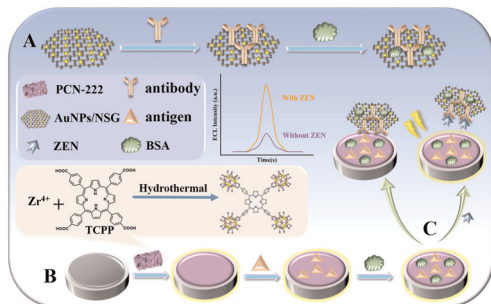
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Designing stimuli-responsive upconversion nanoparticles based on a mimetic immunoassay for potential accurate diabetic nephropathy diagnosis

Yiting Wang, Yang Hu, Ru Wang, Wei Zhang, Huiting Mao, Chuanjun Yuan* and Ruinian Hua*

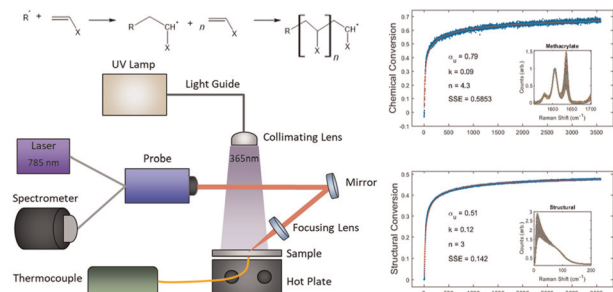
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Electrochemiluminescence resonance energy transfer immunoassay based on a porphyrin metal–organic framework and AuNPs/NSG for the sensitive detection of zearalenone

Xiaolin Fan, Xun Yao, Mengqi Qiu, Kang Wu,* Anping Deng* and Jianguo Li*

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Method for determining resin cure kinetics with low-frequency Raman spectroscopy

Robert V. Chimenti,* Alexandra M. Lehman-Chong, Alyssa M. Sepcic, Jamison D. Engelhardt, James T. Carriere, Kayla A. Bensley, Adam Markashevsky, Jianwei Tu, Joseph F. Stanzione, III and Samuel E. Lofland

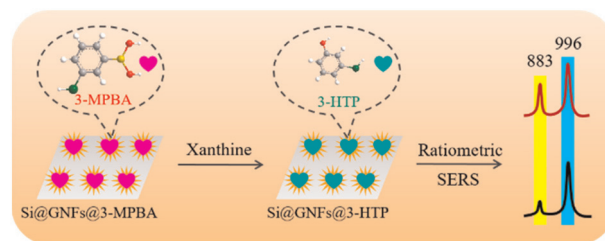


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A ratiometric SERS sensor with one signal probe for ultrasensitive and quantitative monitoring of serum xanthine

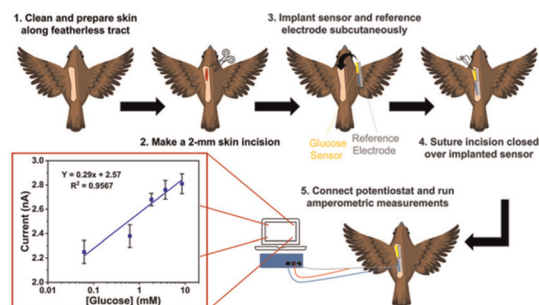
Yan Wu,* Rongnan Yi, Honghui Zang, Jing Li, Rong Xu, Fang Zhao, Junli Wang, Cuicui Fu and Jinyang Chen*



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Smart sensing flexible sutures for glucose monitoring in house sparrows

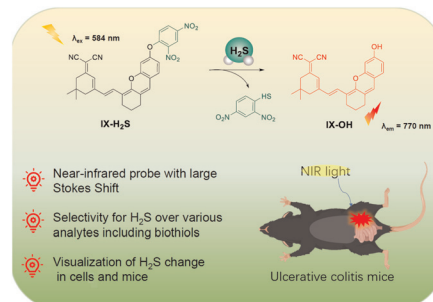
Mossab K. Alsaedi, Rachel E. Riccio, Atul Sharma, Junfei Xia, Rachel E. Owyung, L. Michael Romero and Sameer Sonkusale*



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A near-infrared fluorescent probe for detecting hydrogen sulfide with high selectivity in cells and ulcerative colitis in mice

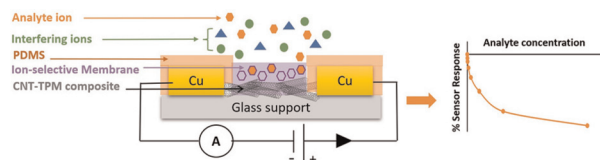
Chong-Kang Qin, Ling Yan, Zhi-Qing Wang, Guo Yu, Guo-Jiang Mao, Fen Xu and Chun-Yan Li*



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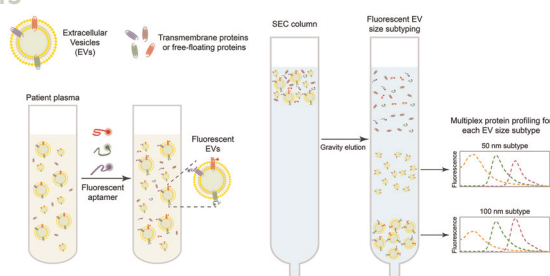
An ion-selective chemiresistive platform as demonstrated for the detection of nitrogen species in water

Maryam Darestani-Farahani, Fanqing Ma, Vinay Patel, Ponnambalam Ravi Selvaganapathy and Peter Kruse*



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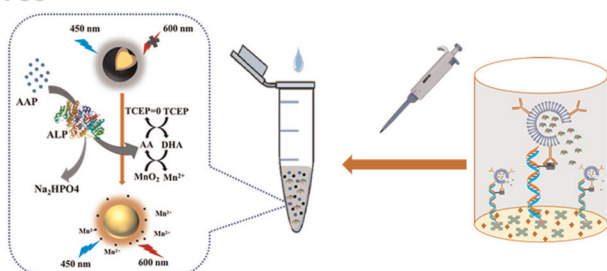


Low cost, rapid and user-friendly method for EV size subtyping and membrane protein profiling
Identification of specific EV size subtype for highly accurate GI cancer prognosis

Size-exclusion chromatography-based extracellular vesicle size subtyping and multiplex membrane protein profiling for differentiating gastrointestinal cancer prognosis

Ti Qin, Pinhao Li, Jun Li, Qianqian Guo, Ying Chen, Yu-E. Wang, Ling Tao, Jian Huang,* Xiangchun Shen* and Xingjie Wu*

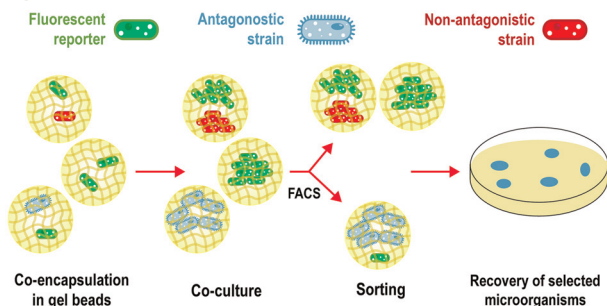
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ALP-assisted chemical redox cycling signal amplification for ultrasensitive fluorescence detection of DNA methylation

Hongding Zhang,* Sifei Wu, Zhenhua Xing and Hai-Bo Wang

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High-throughput bacterial co-encapsulation in microfluidic gel beads for discovery of antibiotic-producing strains

Abraham Ochoa, Gabriela Gastélum, Jorge Rocha and Luis F. Olguin*

