

Analyst

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See H. Cumhuri 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*

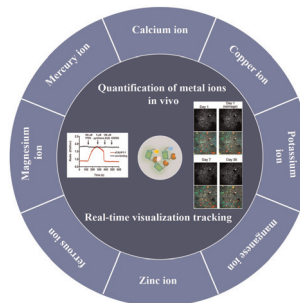


TUTORIAL REVIEW

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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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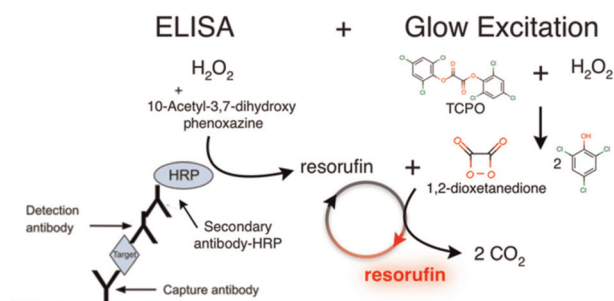


COMMUNICATION

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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*

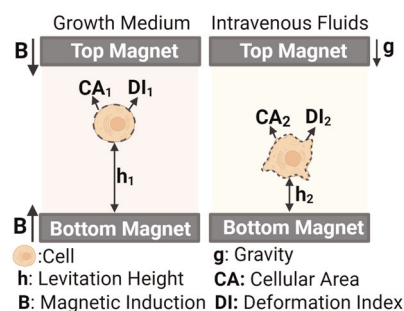


PAPERS

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

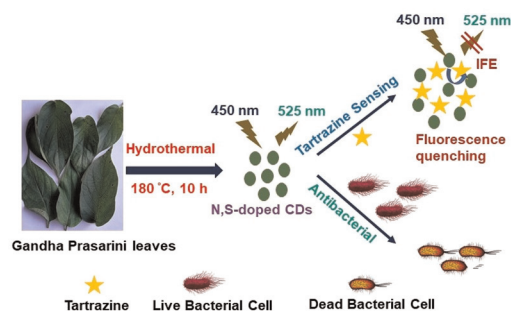
Seren Kecili, Sumeyra Vural Kaymaz, Beyzanur Ozogul, H. Cumhur Tekin* and Meltem Elitas*



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

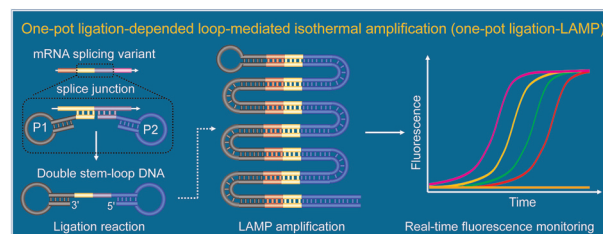
Tanmayee Mohanta, Himadri Gourav Behuria, Santosh Kumar Sahu, Ashis Kumar Jena* and Swagatika Sahu*



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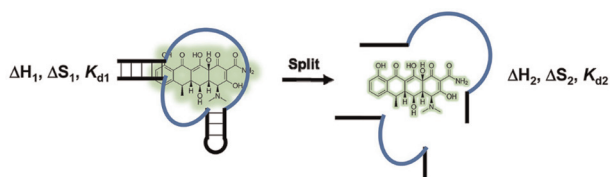
Specific recognition and sensitive quantification of mRNA splice variants via one-pot ligation-dependent loop-mediated isothermal amplification

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



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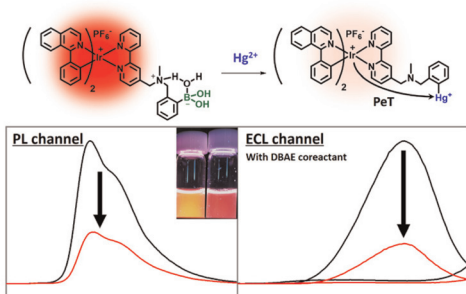
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Light-up split aptamers: binding thermodynamics and kinetics for sensing

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

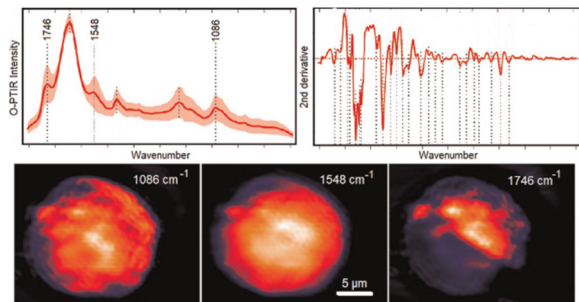
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A photoluminescent and electrochemiluminescent probe based on an iridium(III) complex with a boronic acid-functionalised ancillary ligand for the selective detection of mercury(II) ions

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

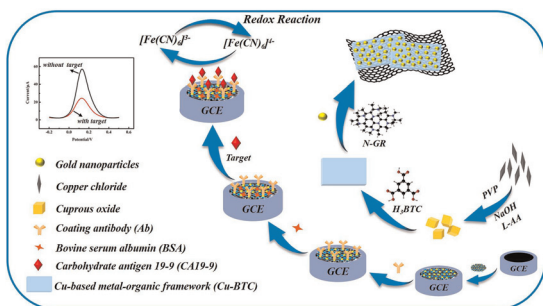
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Optical photothermal infrared spectroscopy and discrete wavenumber imaging for high content screening of single cells

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*

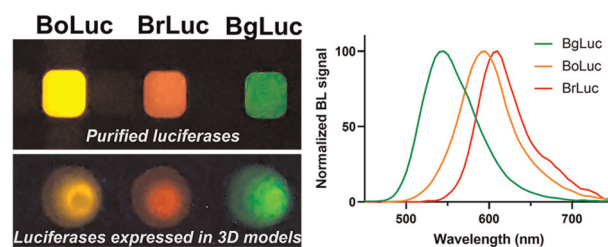


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New synthetic red- and orange-emitting luciferases to upgrade *in vitro* and 3D cell biosensing

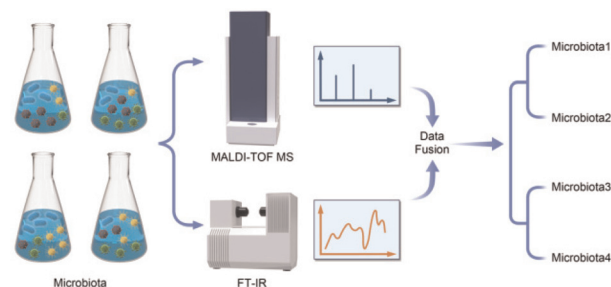
Maria Maddalena Calabretta, Denise Gregucci and Elisa Michelini*



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

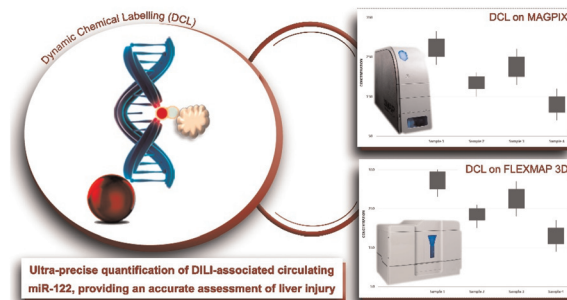
Wenjing Gao, Ying Han, Liangqiang Chen, Xue Tan, Jieyou Liu, Jinghang Xie, Bin Li, Huilin Zhao, Shaoning Yu, Huabin Tu, Bin Feng* and Fan Yang*



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

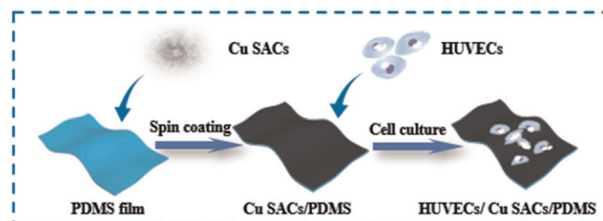
Antonio Marín-Romero, Valerie Regele, Dajana Kolanovic, Manuela Hofner, Juan José Díaz-Mochón, Christa Nöhammer and Salvatore Pernagallo*



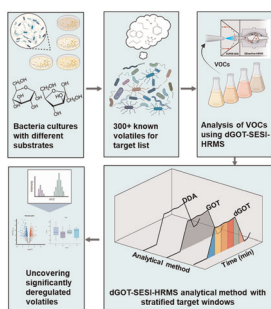
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Cu single-atom catalyst-based flexible hydrogen peroxide electrochemical sensor with oxygen resistance for monitoring ROS bursts

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



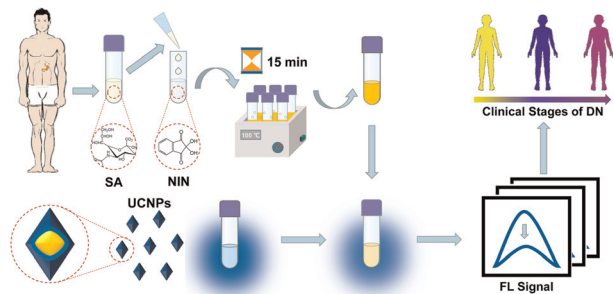
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Database-assisted, globally optimized targeted secondary electrospray ionization high resolution mass spectrometry (dGOT-SESI-HRMS) and spectral stitching enhanced volatilomics analysis of bacterial metabolites

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

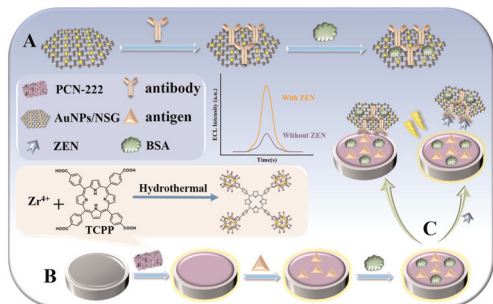
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Designing stimuli-responsive upconversion nanoparticles based on a mimetic immunoassay for potential accurate diabetic nephropathy diagnosis

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

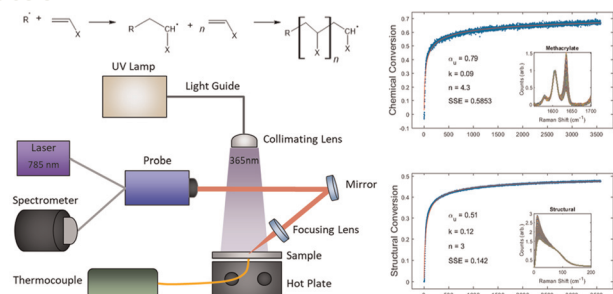
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Electrochemiluminescence resonance energy transfer immunoassay based on a porphyrin metal–organic framework and AuNPs/NSG for the sensitive detection of zearalenone

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

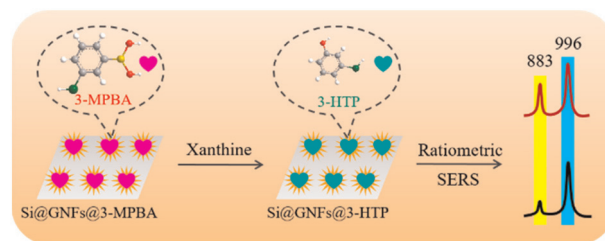
Robert V. Chimenti,* Alexandra M. Lehman-Chong, Alyssa M. Sepcic, Jamison D. Engelhardt, James T. Carriere, Kayla A. Bensley, Adam Markashevsky, Jianwei Tu, Joseph F. Stanzione, III and Samuel E. Lofland



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

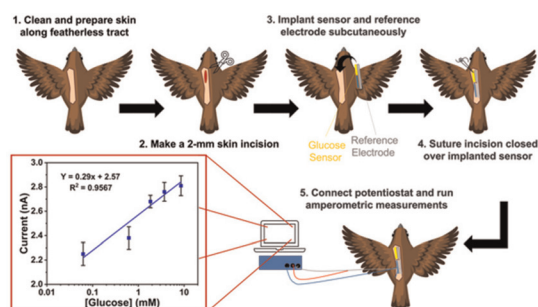
Yan Wu,* Rongnan Yi, Honghui Zang, Jing Li, Rong Xu, Fang Zhao, Junli Wang, Cuicui Fu and Jinyang Chen*



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Smart sensing flexible sutures for glucose monitoring in house sparrows

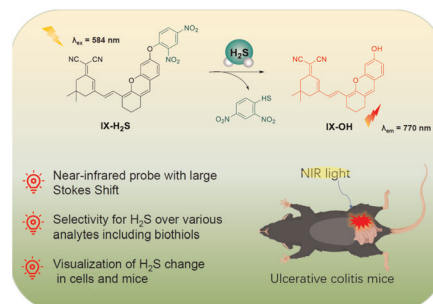
Mossab K. Alsaedi, Rachel E. Riccio, Atul Sharma, Junfei Xia, Rachel E. Oweyung, L. Michael Romero and Sameer Sonkusale*



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

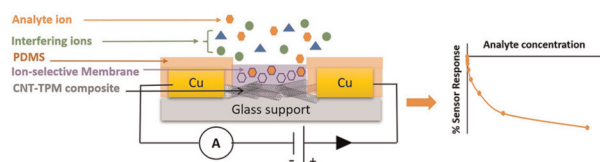
Chong-Kang Qin, Ling Yan, Zhi-Qing Wang, Guo Yu, Guo-Jiang Mao, Fen Xu and Chun-Yan Li*



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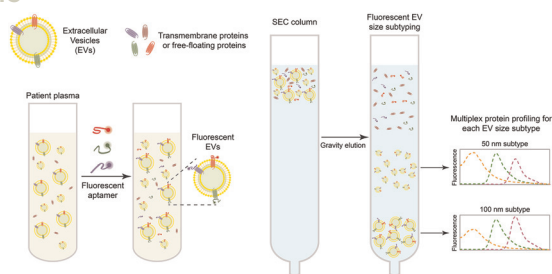
An ion-selective chemiresistive platform as demonstrated for the detection of nitrogen species in water

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



PAPERS

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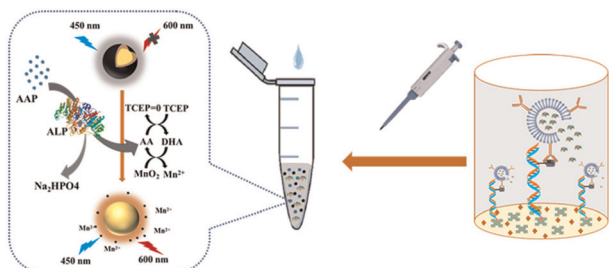


Low cost, rapid and user-friendly method for EV size subtyping and membrane protein profiling
Identification of specific EV size subtype for highly accurate GI cancer prognosis

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*

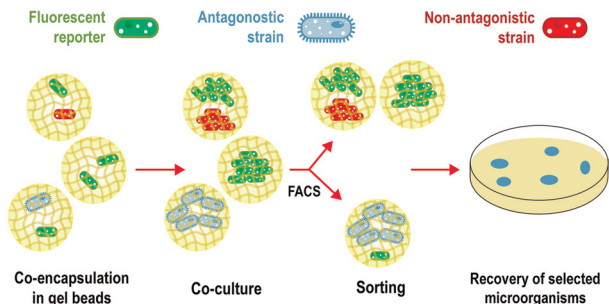
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ALP-assisted chemical redox cycling signal amplification for ultrasensitive fluorescence detection of DNA methylation

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*

