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Cover

See Johannes Walter *et al.*,
pp. 5147–5165.

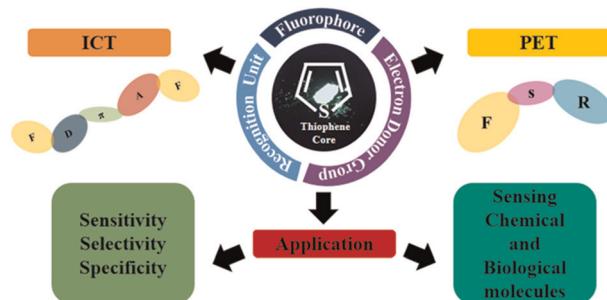
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CRITICAL REVIEW

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An overview of utilising photo-tunable thiophene scaffolds as luminogens for chemical and biological sensing: progress and prospects

Aakash Venkatesan, Anila Rose Cherian and
Aatika Nizam*



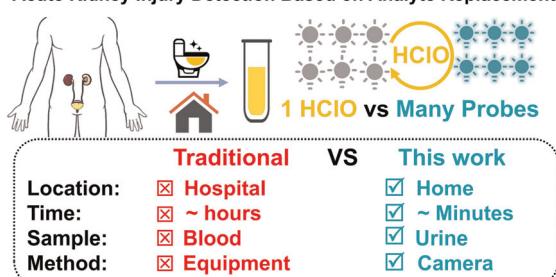
COMMUNICATION

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Hypochlorite-activated analyte-replacement fluorogenic probes for minute-level fast detection of acute kidney injury

Tingfei Xie, Jiahui Chen, Xiaolu Sui, Yanzi Zhang,
Jiqiang Liu, Jinxin Zhang, Xuechuan Hong,
Daoyong Jiang,* Pengfei Zhang* and Jihong Chen*

Acute Kidney Injury Detection Based on Analyte Replacement



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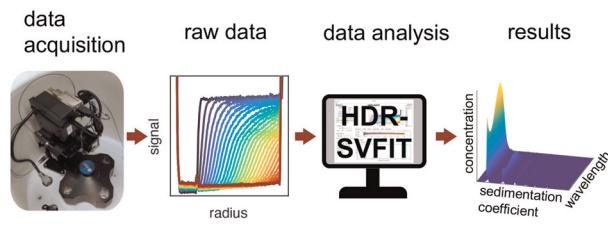
Fundamental questions
Elemental answers

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Global analysis of sedimentation velocity data sets from multiwavelength analytical ultracentrifugation experiments using enhanced regularisation techniques

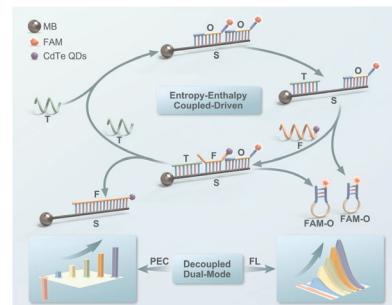
Christina Spruck, Lukas Pflug and Johannes Walter*



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An entropy–enthalpy co-driven independent dual-mode biosensor

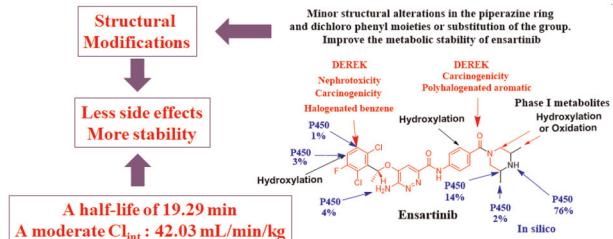
Xu-Fei Sun, Yuqi Luo, Xunan Dong, Hu Luo* and Ke-Jing Huang*



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Development and validation of a quick and sensitive UPLC-MS/MS method for measuring ensartinib in HLMs: investigation of structural alerts associated with metabolic lability and *in silico* toxicity

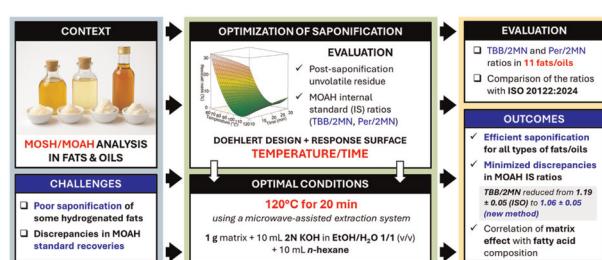
Mohamed W. Attwa,* Ali S. Abdelhameed, Awadh M. Ali, Haitham AlRabiah and Adnan A. Kadi



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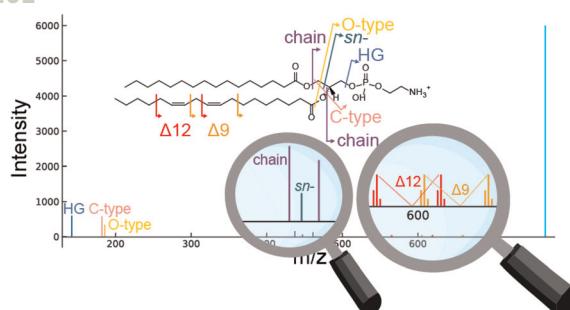
Update on the microwave-assisted saponification conditions for mineral oil hydrocarbons determination in fats and oils

Aleksandra Gorska, Donatella Ferrara, Paula Albendea, Chiara Emilia Cordero and Giorgia Purcaro*



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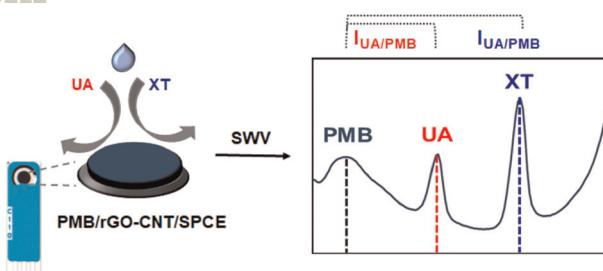
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Optimisation of electron-induced dissociation parameters for molecular annotation of glycerides and phospholipids in fast LC-MS

Vincen Wu, Abraham Moyal, Alaa Othman and Nicola Zamboni*

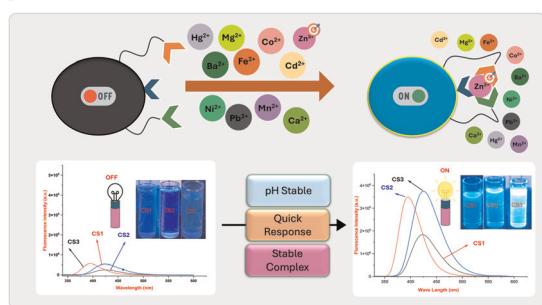
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Ratiometric and simultaneous electrochemical analysis of uric acid and xanthine using poly(methylene blue) and reduced graphene oxide nanocomposite-modified screen-printed electrode

Geun Dae Kim, Sang Hyun Cho and Gi-Ja Lee*

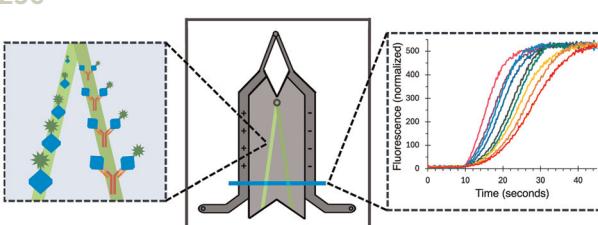
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β-Carboline platform-based novel fluorescent probes for the selective detection of zinc ions: synthesis, live-cell imaging and computational studies

Muhammad Ashraf, Mochamad Lutfi Firmansyah, Safwat Abdel-Azeim, Raden J. K. Susilo, Suhailah Hayaza and Nisar Ullah*

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Identifying and minimizing primary sources of temporal broadening in online affinity micro free-flow electrophoresis

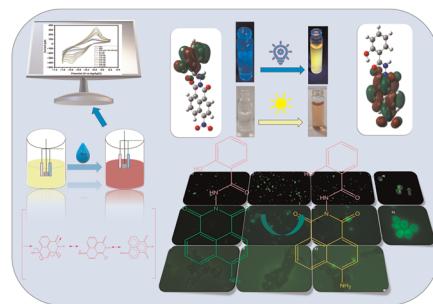
Gretchen S. Burke and Michael T. Bowser*

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A multifunctional probe for optical and electrochemical detection of hydrogen sulfide and real-time selective fungal imaging

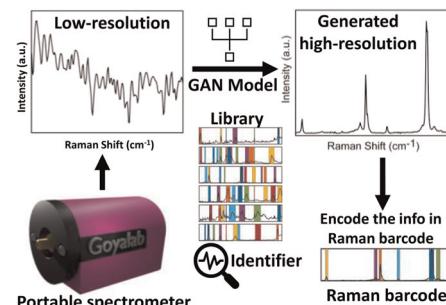
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Generative Adversarial Network-driven high-resolution Raman spectral generation for accurate molecular feature recognition

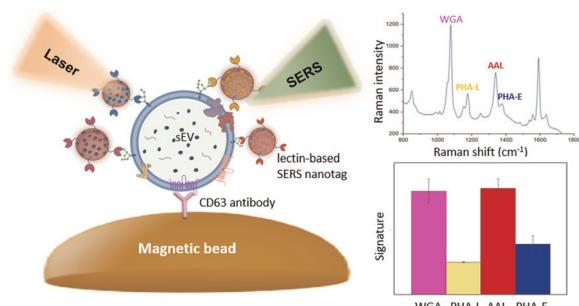
Vikas Yadav, Abhay Kumar Tiwari and Soumik Siddhanta*



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Lectin-enabled glycan signature of small extracellular vesicles by surface-enhanced Raman spectroscopy

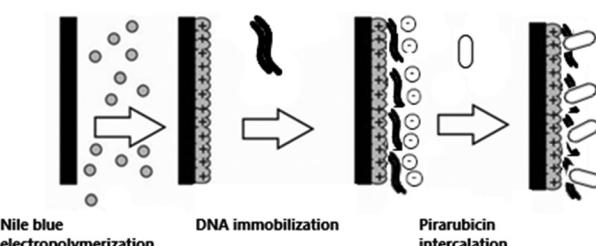
Wei Zhang, Edward S. X. Moh, Mingkai Wu, Nicolle H. Packer and Yuling Wang*



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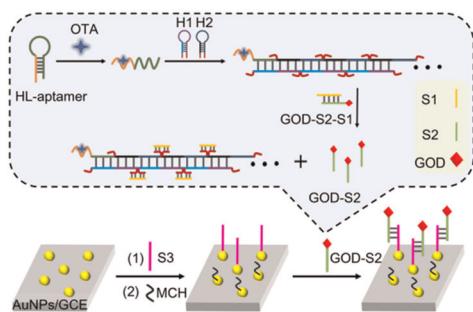
Pirarubicin determination with impedimetric and voltammetric DNA sensors based on poly(Nile Blue) electropolymerized from deep eutectic solvents

Kadriya Vakhidova, Anastasia Goida, Tatiana Krasnova, Rezeda Shamagsumova, Vladimir Evtugyn and Anna Porfireva*



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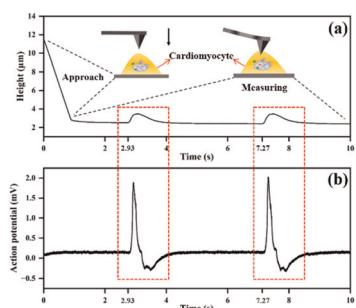
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Coupling a target-triggered hybridization chain reaction to a glucose/oxygen biofuel cell for sensitive self-powered detection of ochratoxin A

Shihan Liu, Shihua Wang, Wenfang Deng,*
Qingfang Zhang* and Yueming Tan*

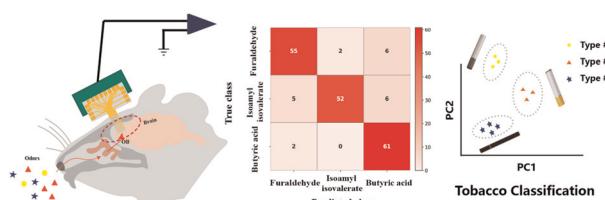
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Effect of AFM-based electrical stimulation on the electrophysiological and mechanical characteristics of cardiomyocytes

Jianjun Dong, Bowei Wang, Jinhong Fu, Yan Li, Tianzhu Yu, Xia Wang, Fengyan Hou, Junxi Wang and Zuobin Wang*

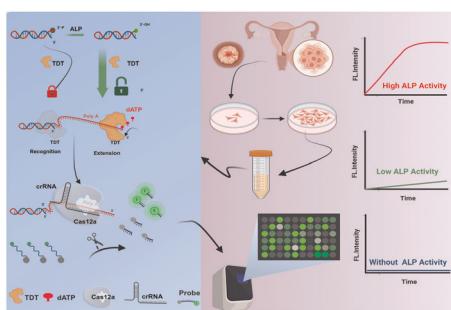
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A bioelectronic nose with a flexible and implantable neural interface for odor detection and tobacco evaluation

Fan Wu, Jiale Wang, Wei Zhang, Yajie Zhang, Haotong Zhang, Zhichao Huang, Qifei Wang, Hao Wan,* Ping Wang,* Qunchen Yuan* and Luijing Zhuang*

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TdT/Cas12a cascade amplification biosensor for sensitive ALP activity detection

Chengbin Pei, Bei Yan,* Yan Wang, Ting Chen, Kunhao Du, Lianghong Ma* and Juan Wang*

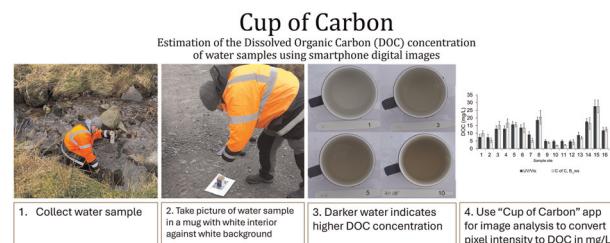


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Cup of Carbon: smartphone-based analysis of dissolved organic carbon in water for use in citizen science

Michael R. Muir,* Adrian M. Bass, Kenny Galt, Kerry Morrison, Lewis Robertson and Emily Taylor



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Ratiometric detection of human serum albumin using an aggregation-induced enhanced emission-conjugated polyelectrolyte and a prototype smartphone device

Moirangthem Anita Chanu, Dheeraj Dineshbhai Khubchandani, Laxmi Raman Adil, Priyam Ghosh and Parameswar Krishnan Iyer*

