

## IN THIS ISSUE

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### Cover

See Bernhard Lendl et al.,  
pp. 5372–5380.

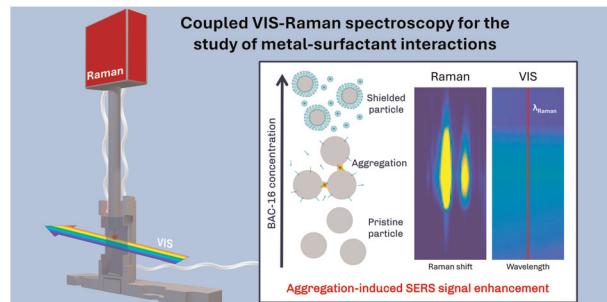
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Bernhard Lendl from  
*Analyst*, 2024, **149**, 5372.

## PAPERS

5372

### In situ study of the interactions between metal surfaces and cationic surfactant corrosion inhibitors by surface-enhanced Raman spectroscopy coupled with visible spectroscopy

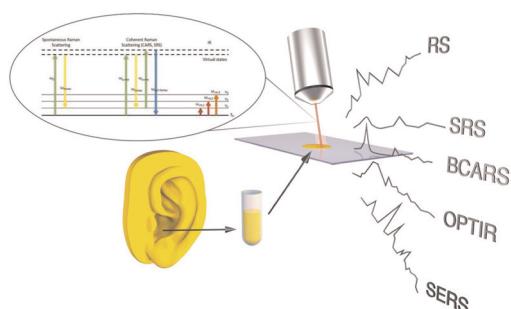
Felix Frank, Daniela Tomasetig, Peter Nahrtingbauer, Wolfgang Ipsmiller, Gerd Mauschitz, Karin Wieland and Bernhard Lendl\*



5381

### Advancing cerumen analysis: exploring innovative vibrational spectroscopy techniques with respect to their potential as new point-of-care diagnostic tools

Edoardo Farnesi, Matteo Calvarese, Chen Liu, Carl Messerschmidt, MohammadSadegh Vafaeinezhad, Tobias Meyer-Zedler, Dana Cialla-May, Christoph Krafft, Jonas Ballmaier, Orlando Guntinas-Lichius, Michael Schmitt and Jürgen Popp\*





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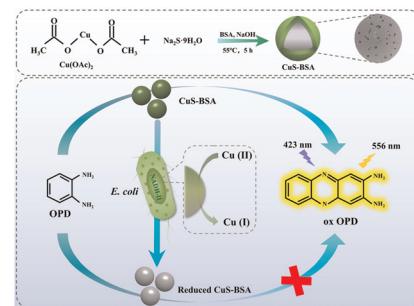
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## PAPERS

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## A nano-biosensing platform based on CuS-BSA for label-free fluorescence detection of *Escherichia coli*

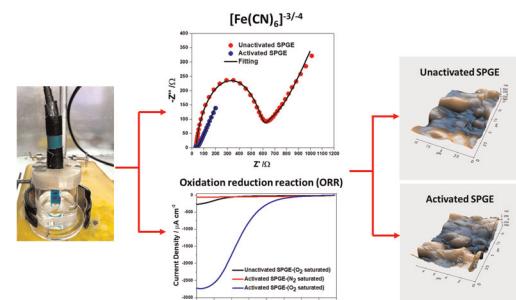
Xiaoqing Zhang, Shanglin Li and Mei Liu\*



5401

## Electrochemical and imaging evaluations of electrochemically activated screen-printed gold electrodes

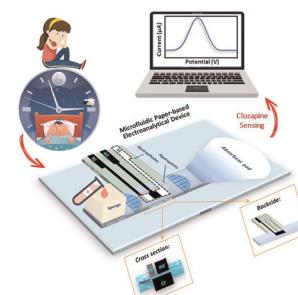
Nor Dyana Zakaria, Ibrahim Luqman Salih, Hairul Hisham Hamzah,\* Turgut Sönmez, Muhamad Huzaifah Omar, Noorhashimah Mohamad Nor, Khairunisak Abdul Razak and Venugopal Balakrishnan



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## Screen printed 3D microfluidic paper-based and modifier-free electroanalytical device for clozapine sensing

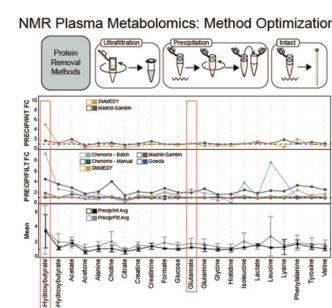
Mohammad Hossein Ghanbari, Markus Biesalski, Oliver Friedrich and Bastian J. M. Etzold\*



5423

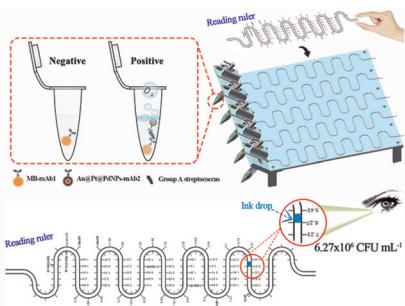
## Evaluating protocols for reproducible targeted metabolomics by NMR

Darcy Cochran, Panteleimon G. Takis,\* James L. Alexander, Benjamin H. Mullish, Nick Powell, Julian R. Marchesi and Robert Powers\*



## PAPERS

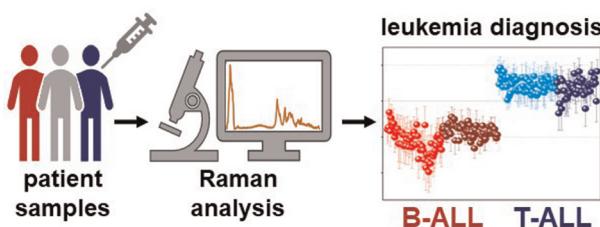
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### Nanozyme linked multi-array gas driven sensor for real-time quantitative detection of *Group A streptococcus*

Qi Wang, Pei Liu, Ke Xiao, Wenying Zhou, Jinfeng Li\* and Yun Xi\*

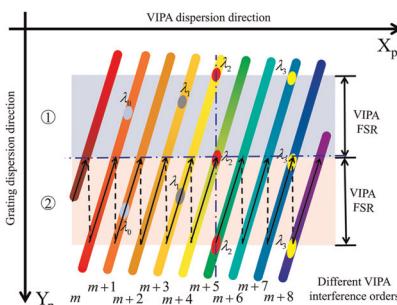
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### Advancing triage of acute lymphoblastic leukaemia subtypes diagnosis: label-free Raman spectroscopy for precise single-cell phenotyping and subtype classification

Patrycja Leszczenko, Anna M. Nowakowska, Patrycja Dawiec, Karolina Czuja, Justyna Jakubowska, Marta Zabczynska, Agata Pastorcza, Kinga Ostrowska,\* Szymon Tott, Wojciech Mlynarski, Małgorzata Baranska and Katarzyna Majzner\*

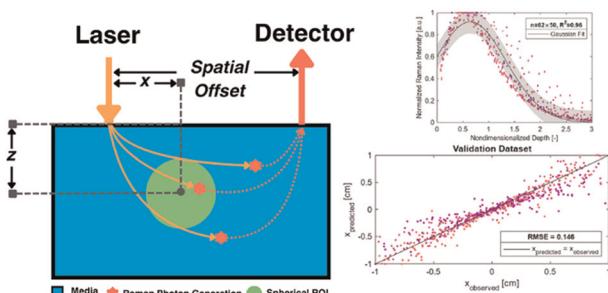
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### A simple spectrogram model for high-accuracy spectral calibration of VIPA spectrometers

Hao Zhou, Weixiong Zhao,\* Weihua Cui, Bingxuan Lv, Bo Fang, Nana Yang, Guangfeng Xiang, Weijun Zhang,\* Lunhua Deng and Weidong Chen

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### Material-agnostic characterization of spatially offset Raman spectroscopy in turbid media via Monte Carlo simulations

Zuriel Erikson Joven, Piyush Raj and Ishan Barman\*

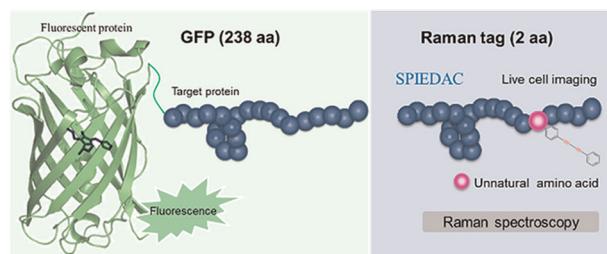


## PAPERS

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**Imaging specific proteins in living cells with small unnatural amino acid attached Raman reporters**

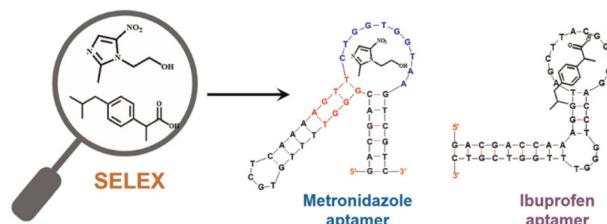
Erli Cai, Yage Chen, Jing Zhang, Haozheng Li, Yiran Li, Shuai Yan, Zhiyong He,\* Quan Yuan\* and Ping Wang\*



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**Selection of DNA aptamers for detecting metronidazole and ibuprofen: two common additives in soft drinks**

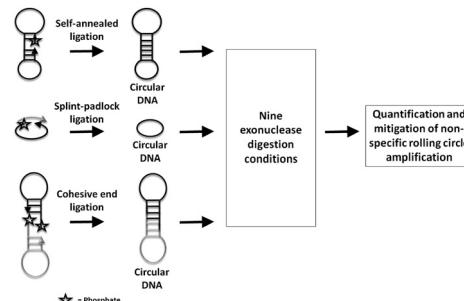
Jin Wang, Xiangmei Li, Hongtao Lei\* and Juewen Liu\*



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**Probing the role of ligation and exonuclease digestion towards non-specific amplification in bioanalytical RCA assays**

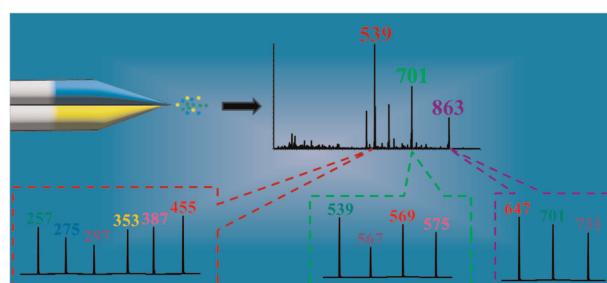
Vandana Kuttappan Nair,\* Chandrika Sharma, Shrawan Kumar, Mrittika Sengupta and Souradyuti Ghosh\*



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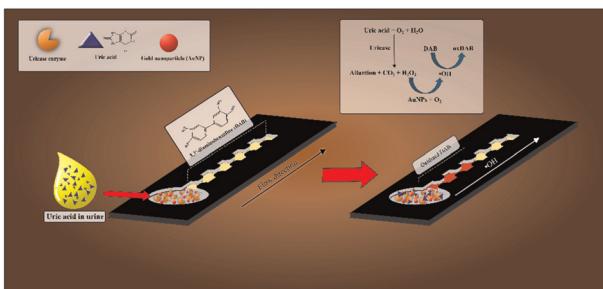
**Differentiation of oligosaccharide isomers by direct infusion multidimensional mass spectrometry**

Enoch Amoah, Taghi Sahraeian, Ayesha Seth and Abraham K. Badu-Tawiah\*



## PAPERS

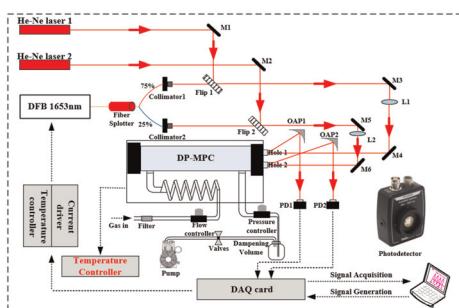
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### A gold nanomaterial-integrated distance-based analytical device for uric acid quantification in human urine samples

Tapparath Leelasattarakul, Thithawat Trakoolwilaiwan and Kawin Khachornsakkul\*

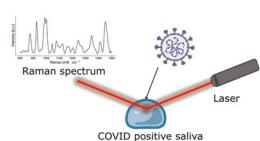
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### Double-channel sensors for high precision measurement of methane based on a dual-path Herriott cell

Hongliang Ma, Shiqi Wang, Gaoxuan Wang, Qilei Zhang, Shenlong Zha, Xueyuan Cai, Lingli Li, Pan Pan, Qiang Liu\* and Shengbao Zhan

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### Liquid saliva-based Raman spectroscopy device with on-board machine learning detects COVID-19 infection in real-time

Katherine J. I. Ember, Nassim Ksantini, Frédéric Dallaire, Guillaume Sheehy, Trang Tran, Mathieu Dehaes, Madeleine Durand, Dominique Trudel and Frédéric Leblond\*

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### Acoustic levitation and manipulation of columns of droplets with integrated optical detection for parallelisation of reactions

Ruchi Gupta\* and Nicholas J. Goddard

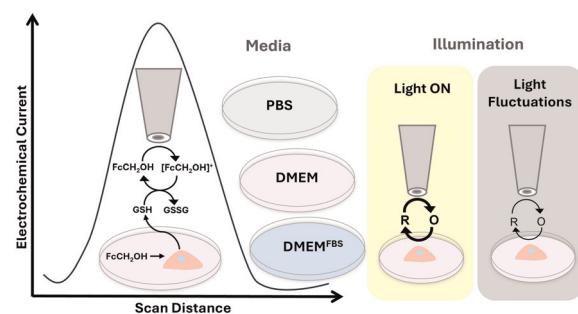


## PAPERS

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**Effects of media composition and light exposure on the electrochemical current response during scanning electrochemical microscopy live cell imaging**

Nikita Thomas, Mengzhen Lyu, Jadon Khouv,  
Dhésmón Lima and Sabine Kuss\*



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**Designing a novel paper-based microfluidic disc for rapid and simultaneous determination of multiple nutrient salts in water**

Zhentao Sun, Youquan Zhao,\* Yameng Liu, Chen Chen  
and Hao Chen

