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Cover

See Lai-Kwan Chau,
Shau-Chun Wang,
Yuh-Ling Chen *et al.*,
pp. 1981–1987.

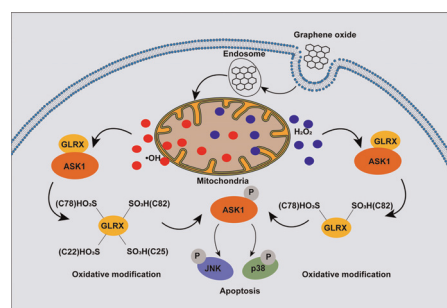
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Analyst, 2024, **149**, 1981.

COMMUNICATIONS

1971

Exploration of glutaredoxin-1 oxidative modification in carbon nanomaterial-induced hepatotoxicity

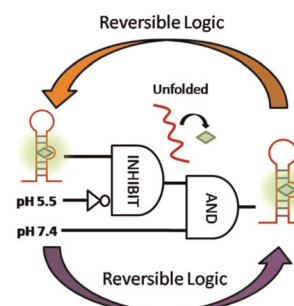
Wen Gao,* Yuqiong Wang, Wenhua Cao, Guanghan Li, Xiaoqian Liu, Xiaoqing Huang, Liping Wang* and Bo Tang*



1976

pH-dependent complex formation with TAR RNA and DNA: application towards logic gates

Rakesh Paul, Raj Paul, Debasish Dutta and Jyotirmayee Dash*



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Fundamental questions
Elemental answers

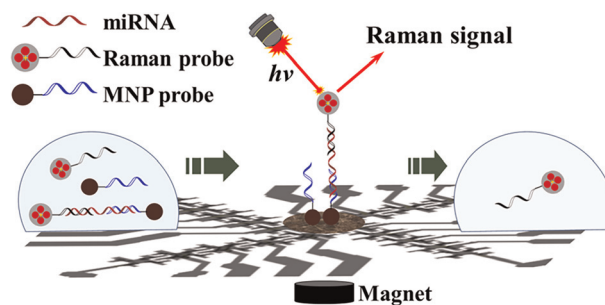


PAPERS

1981

Ultrasensitive amplification-free detection of circulating miRNA via droplet-based processing of SERS tag–miRNA–magnetic nanoparticle sandwich nanocomplexes on a paper-based electrowetting-on-dielectric platform

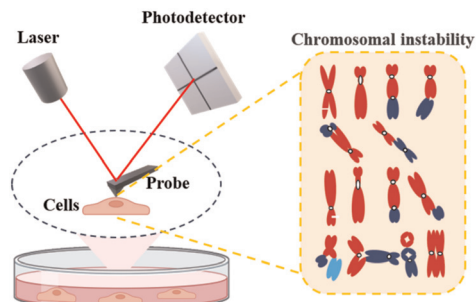
Kai-Hao Wang, Yuan-Yu Chen, Chih-Hsien Wang, Keng-Fu Hsu, Lai-Kwan Chau,* Shau-Chun Wang* and Yuh-Ling Chen*



1988

Determining the degree of chromosomal instability in breast cancer cells by atomic force microscopy

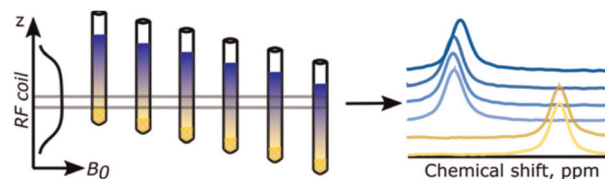
Bowei Wang, Jianjun Dong, Fan Yang, Tuoyu Ju, Junxi Wang, Kaige Qu, Ying Wang, Yanling Tian and Zuobin Wang*



1998

A pH-enhanced resolution in benchtop NMR spectroscopy

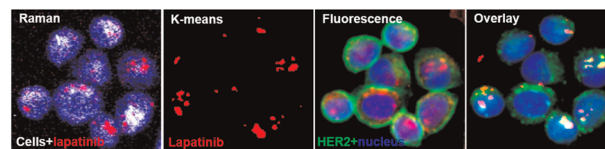
Paulina Putko,* Javier A. Romero and Krzysztof Kazimierzczuk*



2004

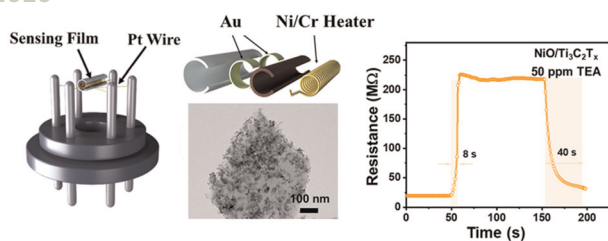
Efficacy of tyrosine kinase inhibitors examined by a combination of Raman micro-spectroscopy and a deep wavelet scattering-based multivariate analysis framework

Irina Schuler, Martin Schuler, Tatjana Frick, Dairovys Jimenez, Abdelouahid Maghnoij, Stephan Hahn, Rami Zewail, Klaus Gerwert and Samir F. El-Mashtoly*



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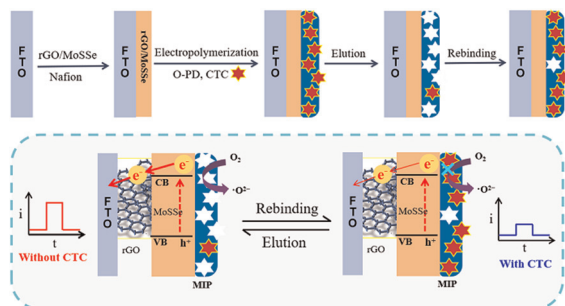
2016



Rational design of NiO/Ti₃C₂T_x nanocomposites with enhanced triethylamine sensing performance

Yutong Han, Wenyu Zhang, Yuan Ding, Yu Yao and Zhigang Zhu*

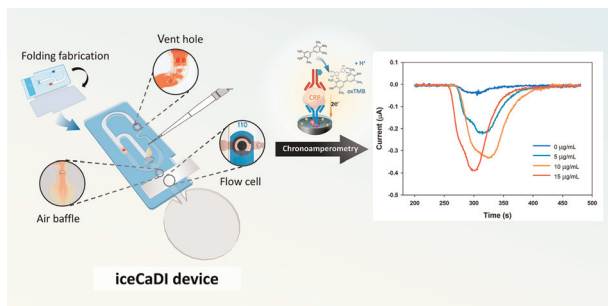
2023



A molecularly imprinted photoelectrochemical sensor based on an rGO/MoSSe heterojunction for the detection of chlortetracycline

Wanjin Huang, Shufei Tang, Wei Xiao, Yafei Chen, Lijun Li* and Jianping Li*

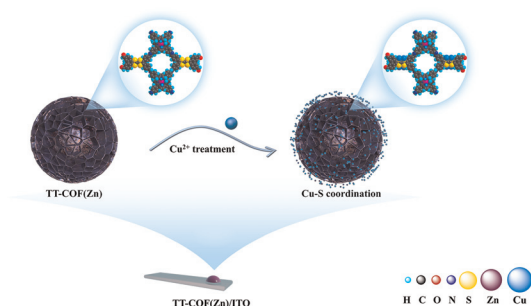
2034



Improving design features and air bubble manipulation techniques for a single-step sandwich electrochemical ELISA incorporating commercial electrodes into capillary-flow driven immunoassay devices

Phuritrat Kaewarsa, Melissa S. Schenkel, Kira L. Rahn, Wanida Laiwattanapaisa and Charles S. Henry*

2045



Photoelectrochemical detection of copper ions based on a covalent organic framework with tunable properties

Jing Li, Lu Hou, Yue Jiang, Mei-Jie Wei, Cheng-Shuang Wang, Heng-Ye Li, Fen-Ying Kong* and Wei Wang*

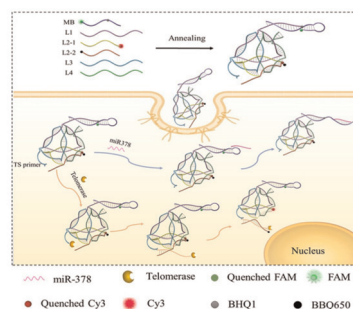


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2051

Real-time *in situ* fluorescence imaging of telomerase and miR378 in living cells using a two-color DNA tetrahedron nanoprobe combined with molecular beacons

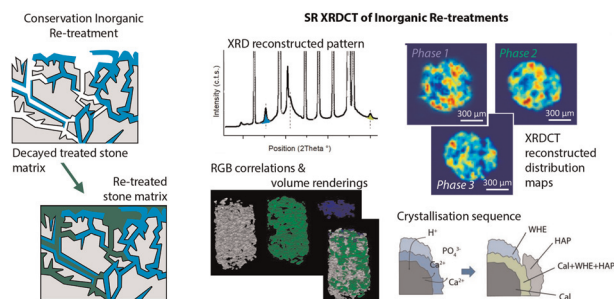
Jiejie Guang, Shan Wang, Bingyuan Fan, Ziyao Yu, Yahui Gao, Jinru Pan, Junting Xi,* Wei Meng* and Fang Hu*



2059

Synchrotron radiation X-ray diffraction computed tomography (XRDCT): a new tool in cultural heritage and stone conservation for 3D non-destructive probing and phase analysis of inorganic re-treatments

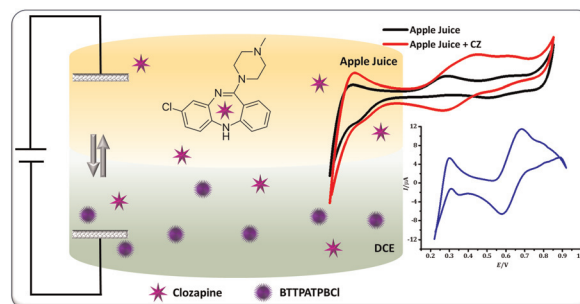
Elena Possenti,* Nicoletta Marinoni, Claudia Conti, Marco Realini, Gavin B. M. Vaughan and Chiara Colombo



2073

Electroanalytical characterization of clozapine at the electrified liquid–liquid interface and its detection in soft and hard drinks

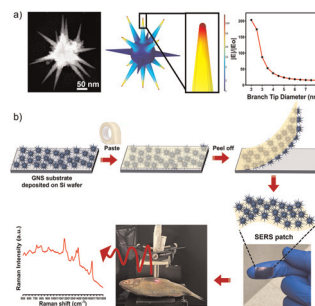
Thangaraj S. T. Balamurugan,* Paweł Stelmaszczyk, Renata Wietecha-Postuszny and Lukasz Poltorak*



2084

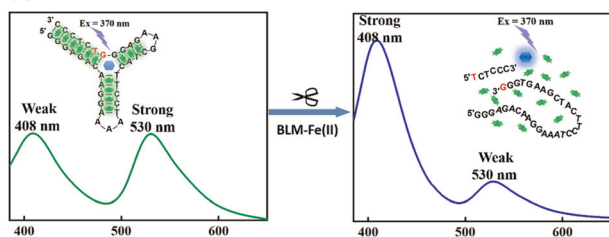
A simple low-cost flexible plasmonic patch based on spiky gold nanostars for ultra-sensitive SERS sensing

Supriya Atta, Aidan J. Canning and Tuan Vo-Dinh*



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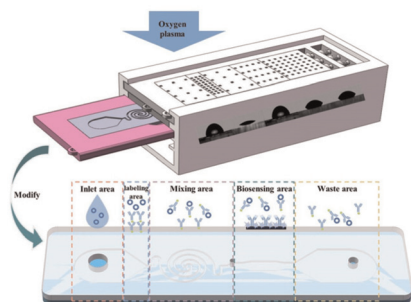
2097



An ATMND/SGI based three-way junction ratiometric fluorescent probe for rapid and sensitive detection of bleomycin

Rong-Mei Kong,* Xue Han, Peihua Li, Yan Zhao, Weiheng Kong, Mei-Hao Xiang, Lian Xia and Fengli Qu

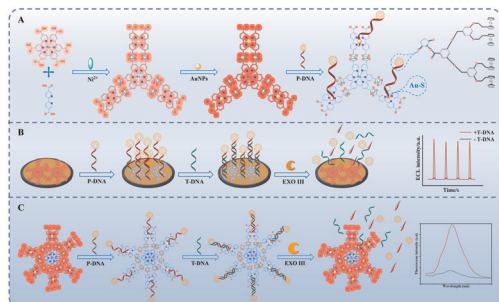
2103



A one-step process for multi-gradient wettability modification on a polymer surface

Xinxin Li, Xinyu Mao, Xudong Li, Chong Liu* and Jingmin Li*

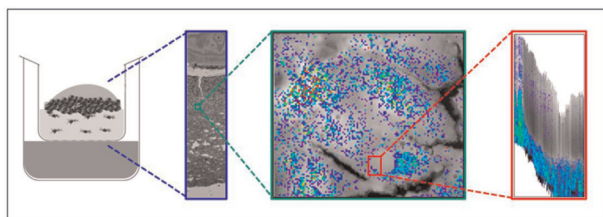
2114



A novel fluorescence–electrochemiluminescence dual-mode sensing platform for high-precision BRAF gene detection

Fengyao Yu, Longyue Qin, Hua Zhang,* Longshua Qin* and Hao Fan*

2122



Label-free mapping of cetuximab in multi-layered tumor oral mucosa models by atomic force-microscopy-based infrared spectroscopy

Gregor Germer, Leonie Schwartze, Jill García-Miller, Roberta Balansin-Rigon, Lucie J. Groth, Isabel Rühl, Piotr Patoka, Christian Zoschke* and Eckart Rühl*

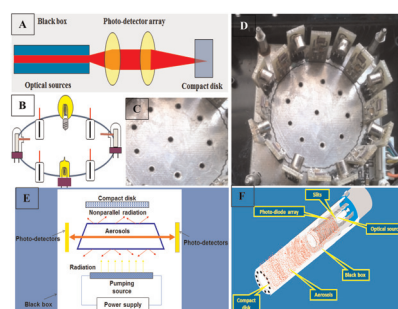


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Discrete fast Fourier transform-assisted ultraviolet-infrared dual resonance spectroscopy for aerosol detection and identification

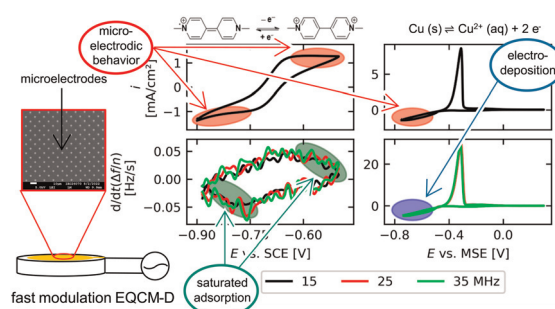
Marjan Rajaei Ramsheh and
Mohammad Mahdi Doroodmand*



2138

An electrochemical quartz crystal microbalance (EQCM) based on microelectrode arrays allows to distinguish between adsorption and electrodeposition

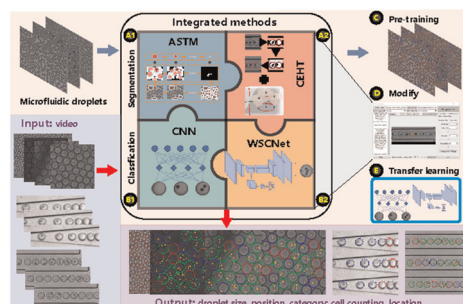
Michael Biermann, Christian Leppin,* Arne Langhoff,
Thorben Ziemer, Christian Rembe and
Diethelm Johannsmann



2147

Dynamic video recognition for cell-encapsulating microfluidic droplets

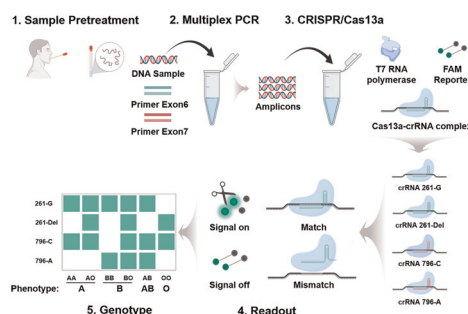
Yuanhang Mao, Xiao Zhou, Weiguo Hu, Weiyang Yang
and Zhen Cheng*



2161

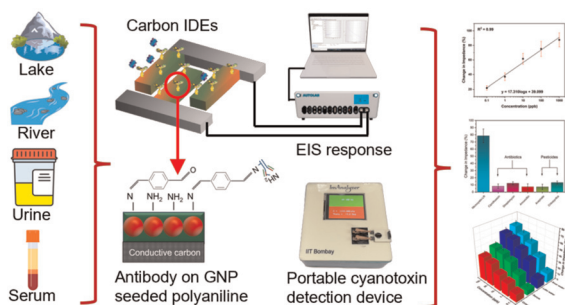
CRISPR/Cas13a-based single-nucleotide polymorphism detection for reliable determination of ABO blood group genotypes

Hongjuan Wei, Liyan Liu, Hanji Jiang, Hong Chen,
Yunxiang Wang, Yongjun Han, Zhen Rong* and
Shengqi Wang*



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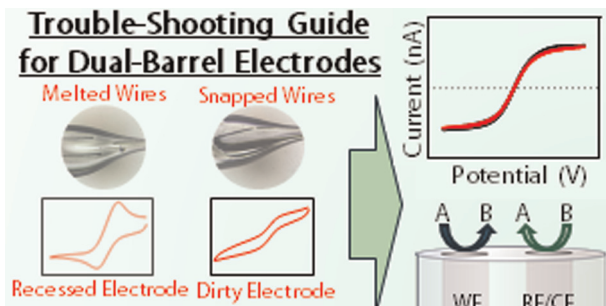
2170



A portable EIS-based biosensor for the detection of microcystin-LR residues in environmental water bodies and simulated body fluids

Atindra Kanti Mandal, Tathagata Pal, Satish Kumar, Suparna Mukherji and Soumyo Mukherji*

2180



Considerations for dual barrel electrode fabrication and experimentation

Lynn E. Krushinski, Philip J. Kauffmann, Amber K. Wang and Jeffrey E. Dick*

