

Analytical Methods

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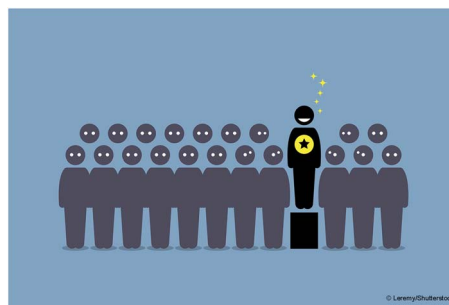
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EDITORIAL

5545

Outstanding Reviewers for *Analytical Methods* in 2024

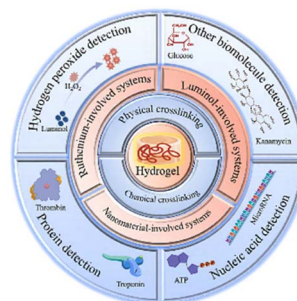


MINIREVIEWS

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Hydrogel-assisted chemiluminescence and electrochemiluminescence systems for bioanalytical applications

Weiyan Liang, Rongxian Huang, Qiguang Li, Yaru Liang* and Xu Teng*



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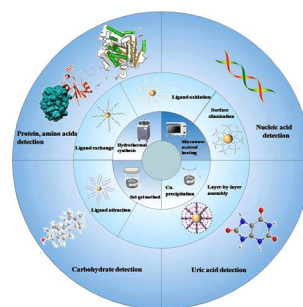


MINIREVIEWS

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Recent advances in upconversion nanoparticles for biomolecule detection: a review

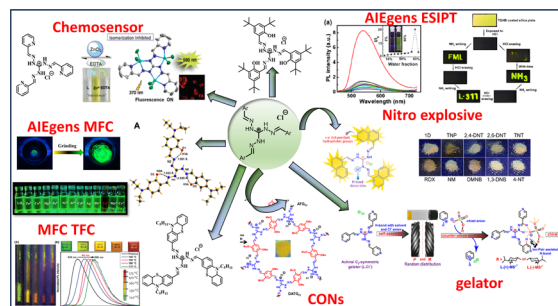
Shuoshuo Cheng, Bin Huang, Kangqiang Lu, Jinhui Li, Herui Wen and Jialin Zhang*



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Recent advances in small-molecule fluorescent probes bearing a triaminoguanidinium unit and their sensing, bio-imaging and multifunctional applications

Balamurugan Tharmalingam*

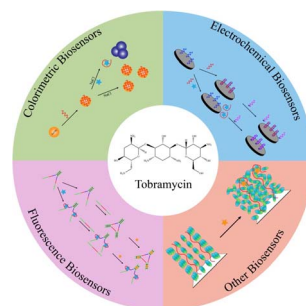


CRITICAL REVIEWS

5605

Aptamer-based biosensors for tobramycin

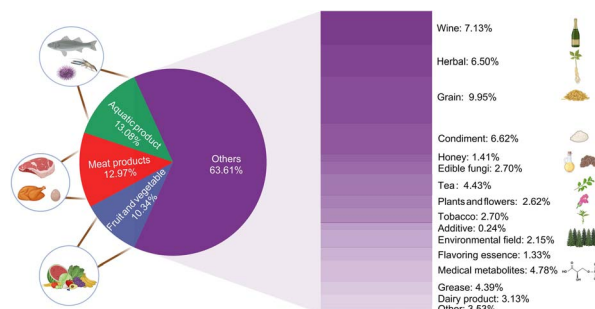
Jizhao Zhang and Qiang Zhao*



5621

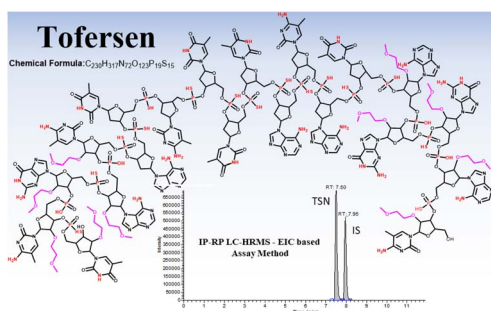
Advancements in gas chromatography-ion mobility spectrometry for analysing natural medicines

Yanan Xu, Ruiren Li, Lequn Zhang, Xueyuan Bai* and Wei Zhang*



COMMUNICATION

5636

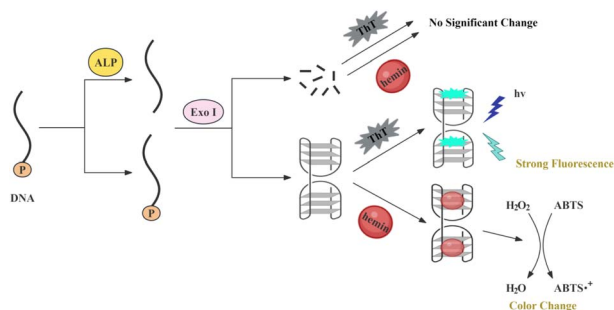


Development of an assay method for tofersen using IPRP-LC-HRMS with an extracting ion chromatogram processing approach

Anuradha A. Hargude, Vijay S. Bhalekar and Ravi P. Shah*

PAPERS

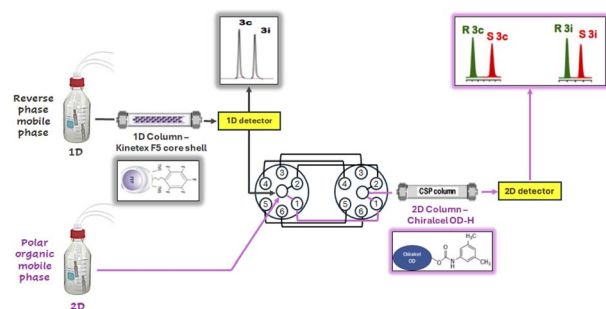
5644



A dual-mode detection strategy for alkaline phosphatase activity based on dimeric G-quadruplex

Yangfan Chen, Xi Zhou, Hailun He, Changbei Ma* and Dejian Yuan*

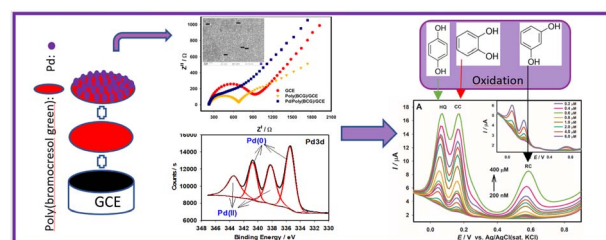
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Application of 2D-liquid chromatography for the separation of a mixture of isomeric and structurally related azatryptophan derivatives

Parinita Shaw, Pandidurai Sekar, Balasaheb Chavan,* Sharad Duche,* Arvind Mathur and Amrita Roy

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Simultaneous and sensitive determination of hydroquinone, catechol, and resorcinol with a palladium nanoparticles/poly(bromocresol green) modified glassy carbon electrode

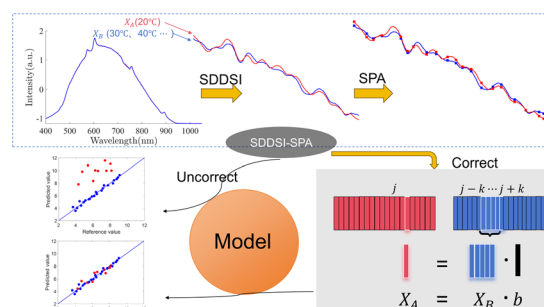
Çağrı Ceylan Koçak*



5672

A stable variable selection method based on SDDSI-SPA for temperature calibration of Vis-NIR spectroscopy in water pH monitoring

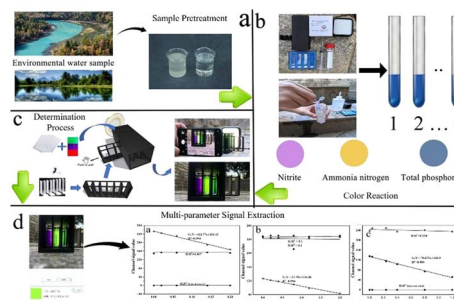
Xiaojian Hu, Lina Li* and Hanjun Su



5683

Real-time smartphone-based multi-parameter detection of nitrite, ammonia nitrogen, and total phosphorus in water

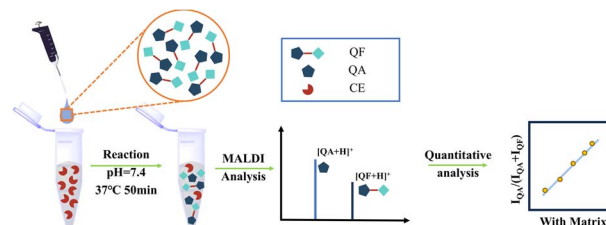
Hao-Yu Zhang, Yan Zhang, Dengni Lai,* Li-Qun Chen, Le-Qian Zhou, Chang-le Tao, Zhou Fang, Rui-Rui Zhu, Wen-Qi Long, Jun-Wu Liu, Ying-Chun Fang, Jia Zhao, Zhi-Bin Wu, Lin Luo and Yuan Yang*



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A rationally designed MALDI-TOF MS probe for rapid quantitative analysis of carboxylesterase activity

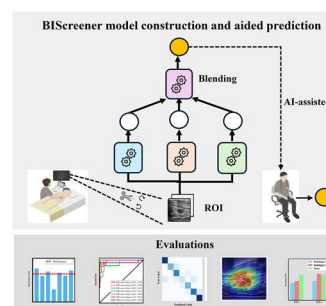
Jiarui Li, Shuai Tang, Hao Wang* and Xinhua Guo*



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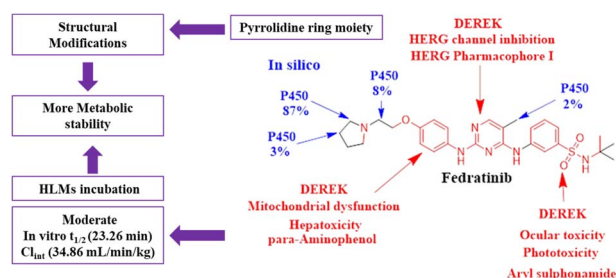
BIScreener: enhancing breast cancer ultrasound diagnosis through integrated deep learning with interpretability

Yao Chen, Peiling Wang, Jing Ouyang, Miduo Tan, Libo Nie, Yibo Zhang* and Tong Wang*

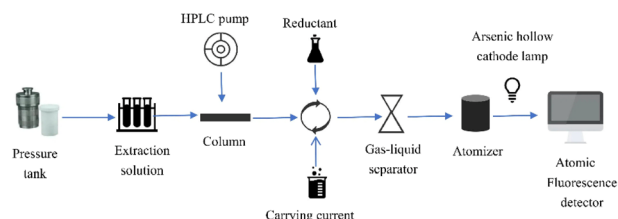


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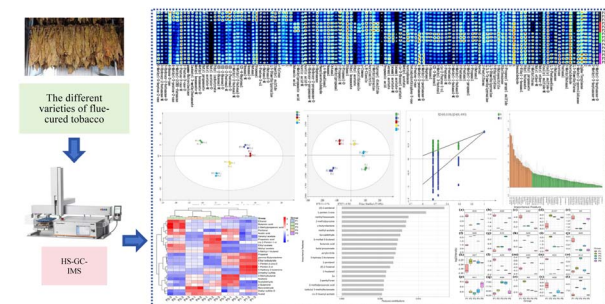
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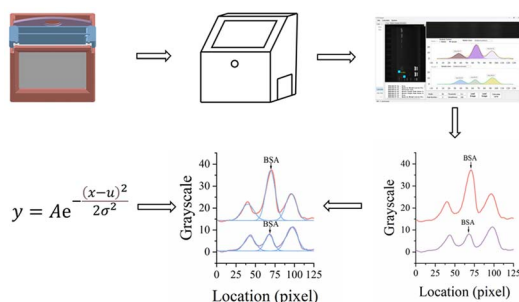
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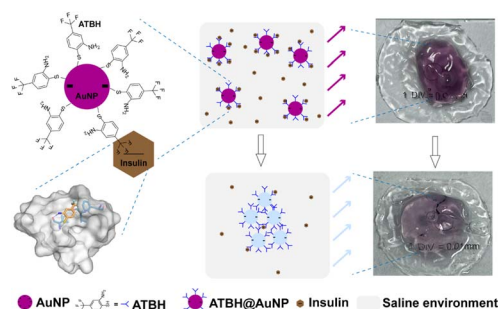


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A novel ATBH-modified gold nanoparticle for colorimetric detection and release monitoring of insulin across a wide concentration range

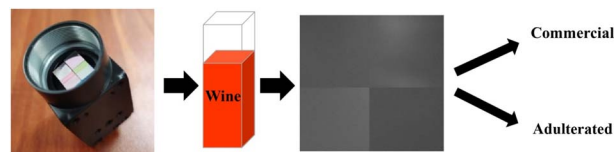
Xiaojie Dou, Wei Qiu and Xiang Chen*



5774

An innovative multispectral sensor for rapid wine adulteration detection using wavelength selection algorithms

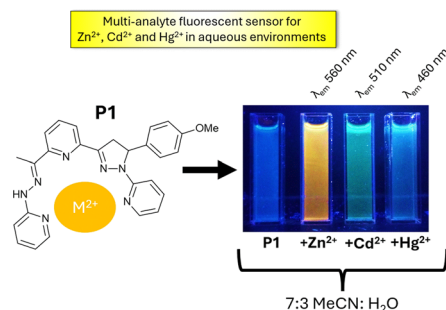
Chengbo Yang,* Jingjun Wu,* Zhouqing Qian and Zhiliang Zhao



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First-in-class hydrazone–pyrazoline sensors for selective detection of Zn²⁺, Cd²⁺, and Hg²⁺ in aqueous environments

Alexander Ciupa*



5788

Selenium and organic- and inorganic-Hg in stir-fried mushrooms

Jerzy Falandysz,* Yuanzhong Wang, Małgorzata Rutkowska, Anetta Hanć and Alwyn R. Fernandes

*Boletus bainiugan*Health
Benefit
Value_{Se}:37
(raw)77
(stir-fried)

CORRECTION

5795

Correction: Real-time kinetic analysis and detection of glycated hemoglobin A1c using a quartz crystal microbalance-based aptasensor

Yossawadee Sriondee, Pasara Vijitvarasan, Arunothai Rattanachata, Hideki Nakajima, Sukunya Oaew* and Sarawut Cheunkar*

