



# ChemComm

Uncover new possibilities  
with outstanding  
preliminary research

Original discoveries, fuelling  
every step of scientific progress

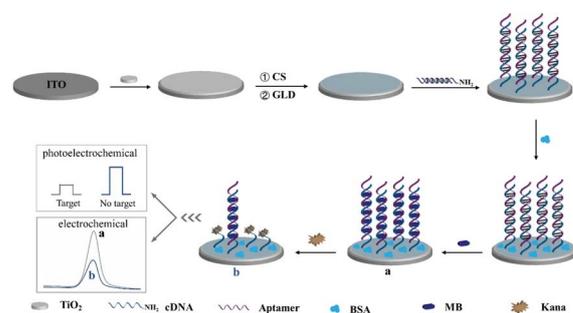
[rsc.li/chemcomm](http://rsc.li/chemcomm)

Fundamental questions  
Elemental answers

4691

## A novel dual-model photoelectrochemical/electrochemical sensor based on Z-scheme TiO<sub>2</sub> disks/methylene blue for kanamycin detection

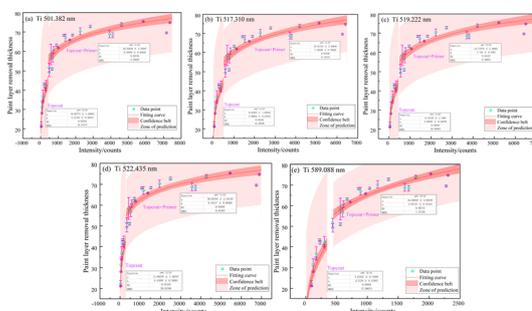
Wenchao Geng, Huimin Liu, Zhiyi Yan, Jiangying Ji, Fei Wang\* and Ruiying Yang\*



4700

## Research on online monitoring of aircraft skin laser paint removal thickness using standard curve method and PCA-SVR based on LIBS

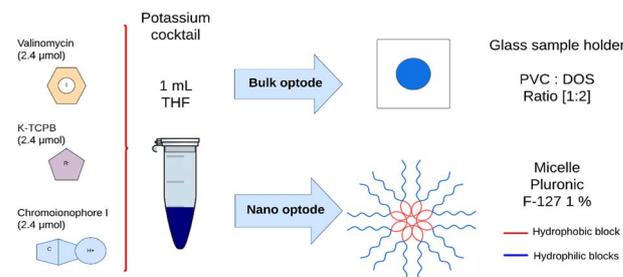
Wenfeng Yang,\* Guo Li, Ziran Qian, Yu Cao, Dehui Lin, Shaolong Li, Xin Zheng, Dehua Zhu, Minyue Xie and Yikai Yang



4710

## Comparative analysis of a bulk optode based on a valinomycin ionophore and a nano-optode in micelles with pluronic F-127 for the quantification of potassium in aqueous solutions

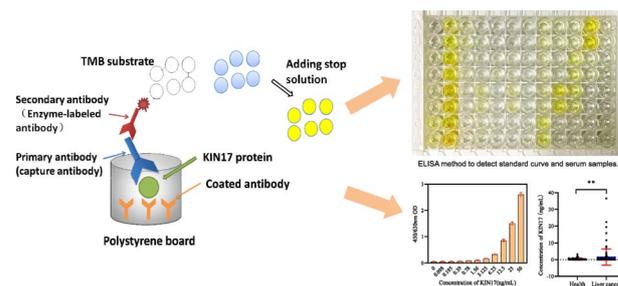
Miguel Villanueva, Jaime Vega-Chacón and Gino Picasso\*



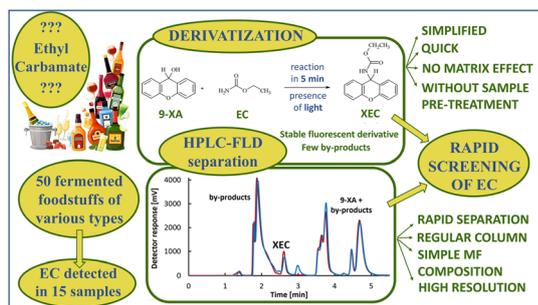
4724

## Identification and quantification of serum KIN17 protein based on ELISA assay and exploring its clinical diagnostic value in liver cancer

Ruiqi Su, Lok Ting Chu, Zhenkai Chen, Xiacong Lin, Minghui Peng, Xueran Huang, Xiangyan Xiao and Tao Zeng\*



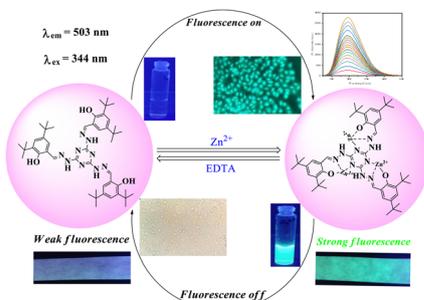
4733



### A rapid and improved method for the determination of ethyl carbamate in foodstuffs of different matrices

Veronika Šantrůčková, Jan Fischer and Jitka Klikarová\*

4743

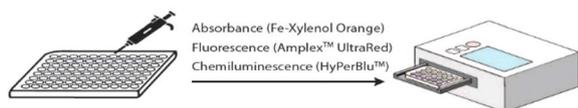


### Tri-armed Schiff base fluorescent sensor for the rapid recognition of Zn(II): application in live cell imaging, test strips and TLC

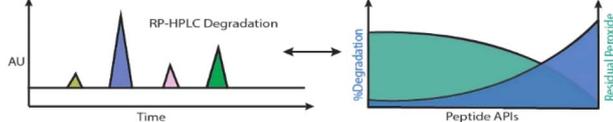
Chethanakumar, Mahantesh B. Budri, Kalagouda B. Gudasi,\* Ramesh S. Vadavi,\* Mallikarjun K. Patil, Vijay M. Kumbar and Sanjeev R. Inamdar

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#### Peroxide Assay Selection



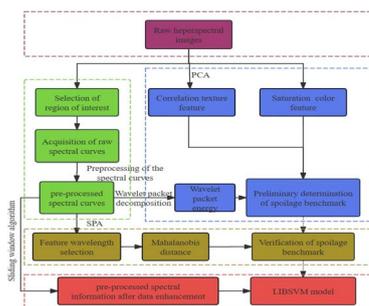
#### Case Study: Peroxide-induced Peptide Degradation



### Comparative understanding of peroxide quantitation assays: a case study with peptide drug product degradation

Kingshuk Dutta,\* Tao Zheng and Evan M. Hetrick

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### A LIBSVM quality assessment model for apple spoilage during storage based on hyperspectral data

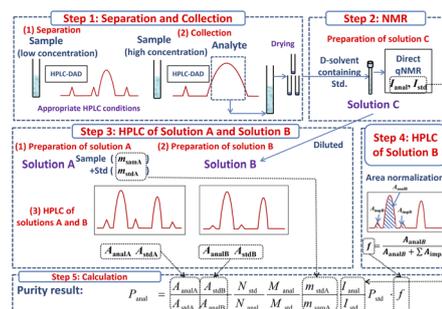
Zhihao Wang, Yong Yin,\* Huichun Yu and Yunxia Yuan



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## Post-collection purity correction for internal standard correction-high performance liquid chromatography-quantitative nuclear magnetic resonance

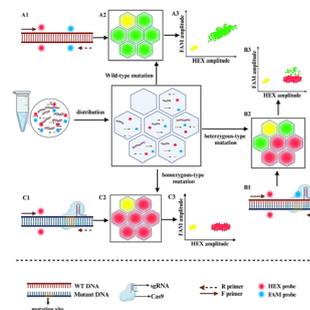
Xueyao Li, Wei Zhang,\* Ting Huang, Ming Li, Fuhai Su, Huaxin Wu and Guangshi Tang\*



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## A platform for precise quantification of gene editing products based on microfluidic chip-based digital PCR

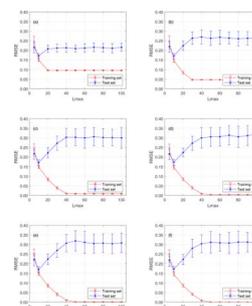
Jingzheng Chi, Lin Ding, Xiaofu Wang, Xiaoyun Chen, Cheng Peng\* and Junfeng Xu\*



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## Quantitative analysis of spectral data based on stochastic configuration networks

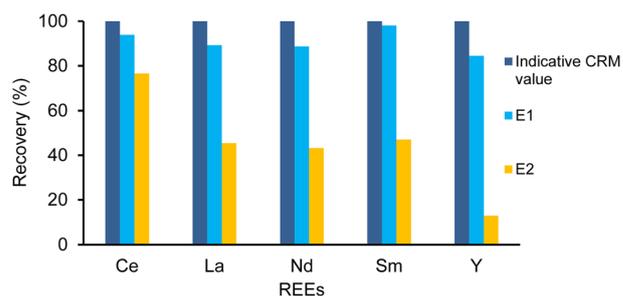
Lixin Zhang, Zhensheng Huang\* and Xiao Zhang



4807

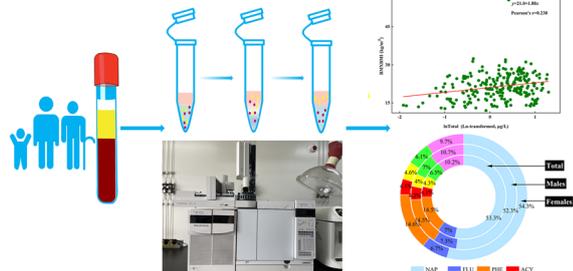
## Validation of microwave acid digestion, diffusive gradients in thin-film preconcentration and inductively coupled plasma optical emission spectrometry methodology for the determination of REEs in natural zeolites

Marin Senila,\* Erika Andrea Levei, Lacrimioara Senila and Oana Cadar



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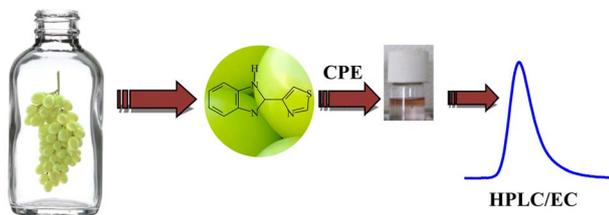
Human Biomonitoring of Serum Polycyclic Aromatic Hydrocarbons and Oxygenated Derivatives by GC-MS/MS



### Human biomonitoring of serum polycyclic aromatic hydrocarbons and oxygenated derivatives by gas chromatography coupled with tandem mass spectrometry

Rong Yang, Chenwen Shi, Xiaojing Li, Pingsheng Gan, Xinhong Pan, Rongfei Peng\* and Lei Tan\*

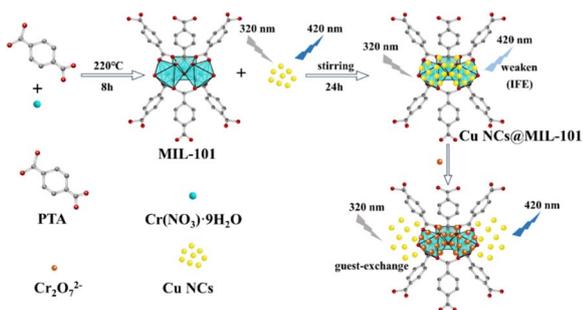
4827



### Cloud point method applied to the extraction and preconcentration of thiabendazole pesticide from whole grape juice samples and amperometric detection by HPLC

Vinicius E. Araújo, Gabriela C. Ribeiro, Kamila P. De Amorim and Leonardo S. Andrade\*

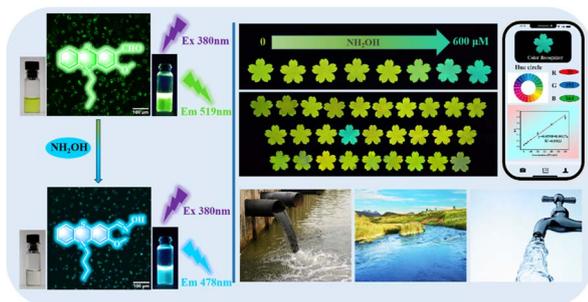
4835



### "Turn-on" fluorescence sensing for sensitively detecting $\text{Cr}(\text{VI})$ via a guest exchange process in Cu NCs@MIL-101 composites

Huijing Chen, Bo Peng, Ping Zhang, Ying Yang and Xue Hu\*

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### A phenothiazine-based ratiometric fluorescence probe for the detection of hydroxylamine in real water and living cells

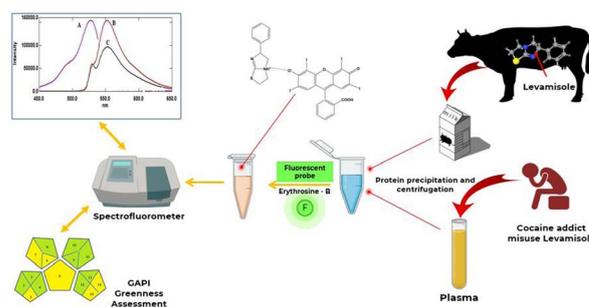
Man Du, Haohua Jiang, Meimei Song, Yue Zhang,\* Haijun Lv, Shuchun Zhao, Hongxia Du and Zhipeng Dong\*



4856

### A green, fluorescent probe employing erythrosine-B for tracing the accidental administration of levamisole in milk and plasma samples

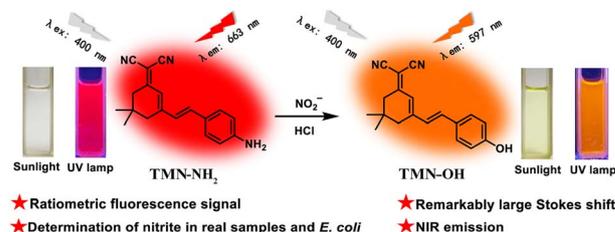
Samah Abo El Abass,\* May E. K. Wahba and Mohammed E. Draz



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### An efficient ratiometric fluorescence and colorimetric dual-mode probe for convenient determination of nitrite in real samples and *E. coli*

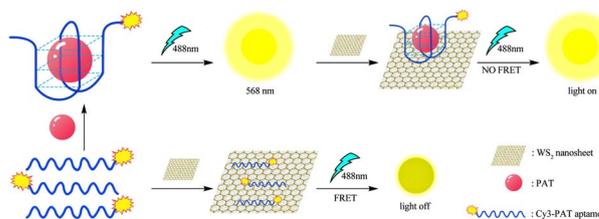
Yujie Wen, Cong Tang, Qing Shen, Shuqing Dong, Yaya Wang,\* Yunchun Li and Shijun Shao\*



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### A fluorescence aptamer sensor utilizing WS<sub>2</sub> nanosheets for sensitive detection of patulin: enhanced specificity and wide applicability

Guoxin Qin, Huiling Li, Jie He, Haijun Wang, Yongxian Chen, Shuibing Lao, Liang Cheng, Weifan Lu, Lihong Luo, Li Tang, Renfu Mo, Yuning Wei\* and Qifeng Zhou\*



4880

### A ferrocene-based chemo-dosimeter for colorimetric and electrochemical detection of cyanide and its estimation in cassava flour

V. Dharaniprabha, A. Kalavathi, K. Satheeshkumar and Kuppanagounder P. Elango\*

