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Cover

See Ranjith Ramanathan,
Sadagopan Krishnan *et al.*,
pp. 3289–3297.

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The international society for clinical spectroscopy; reflections on the first 10 years

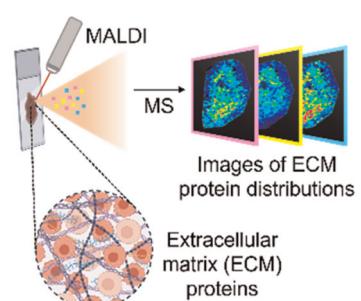
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Akaansha Rampal, Shelly R. Peyton* and
Richard W. Vachet*



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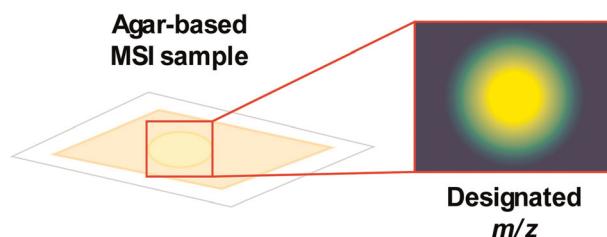
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Bacterial biofilm sample preparation for spatial metabolomics

Joenisse M. Rosado-Rosa and Jonathan V. Sweedler*

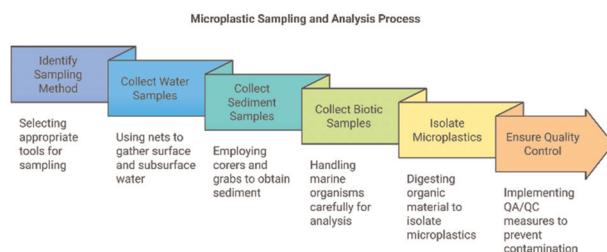


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Global insights into microplastic contamination in marine life: detection methods and current status

Qingwei Zhou, Meiqing Jin, Li Fu,* Cheng-Te Lin, Weihong Wu and Hassan Karimi-Maleh*

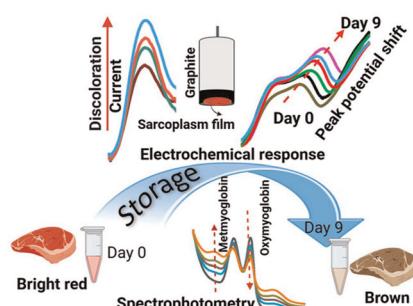


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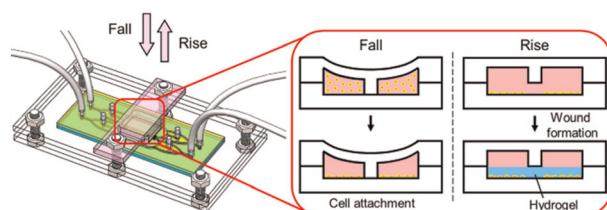
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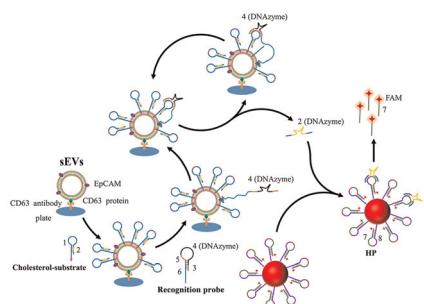
Microfluidic-based wound healing assays for investigating the effects of matrix viscoelasticity on tumor cell migration

Laiqian Ding, Zhongyu Wang, Xinxin Li, Emad Uddin, Qingyun Jiang, Dexian Sun, Juan Wei, Li Chen, Bo Liu, Chong Liu* and Jingmin Li*



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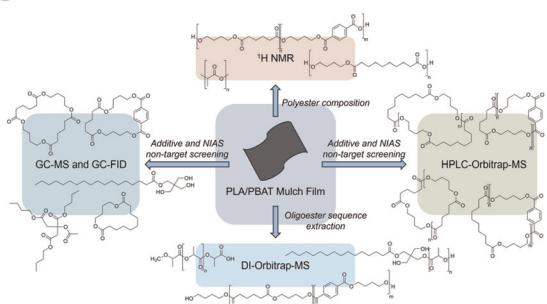
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A proximity cleavage assisted DNAzyme catalyzed loading DNA walker system for accurate and sensitive small extracellular vesicle analysis

Hongli Cao, Guofang Yin, Zhiguo Wang and Xianming Fan*

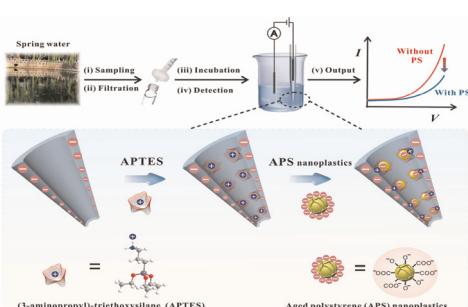
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Characterisation of the unknown chemical composition of a commercial biodegradable agricultural plastic mulch film using complementary spectrometric and spectroscopic techniques

Charlie Monkley,* Michaela K. Reay, Helen L. Whelton, Richard P. Evershed and Charlotte E. M. Lloyd*

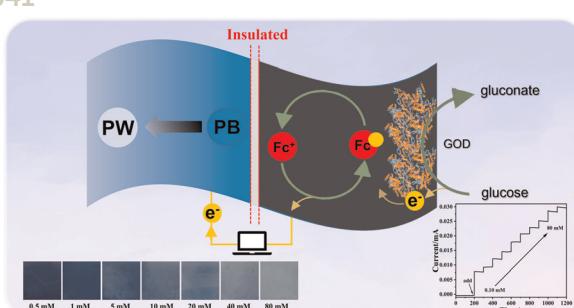
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Borosilicate glass nanopipettes enhanced by synergistic electrostatic interactions and steric hindrance for ultrasensitive electrochemical detection of nanoplastics in environmental water samples

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Zheng Wang, Maruf Ahmed,* Jiayuan Zhu, Ying-Zhuo Shen, Meijuan Zhao, Wei Liu, Xiao-Ya Hu* and Qin Xu*

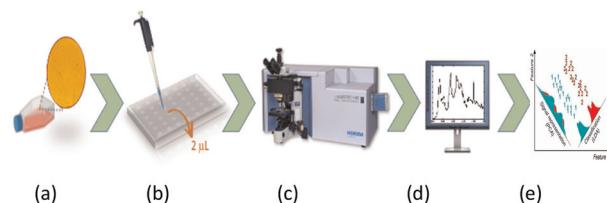


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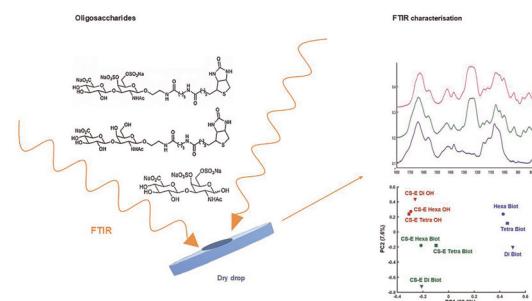
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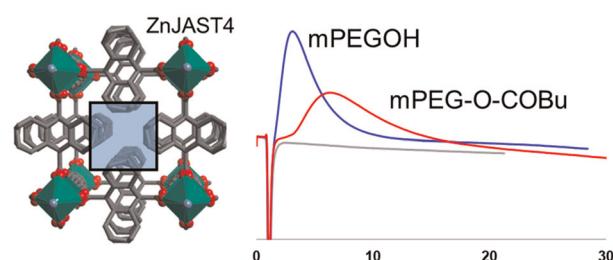
Elise Vincent, Valérie Untereiner, Florian Chabot, Aude Vibert, Marie Schuler, Jorgan Guard, Romain Rivet, Isabelle Proult, Chrystel Lopin-Bon, Stéphane Brézillon* and Ganesh D. Sockalingum*



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Metal–organic framework-based separation columns: fundamental study for molecular recognition and potential for separation of linear polymers with close terminal structures

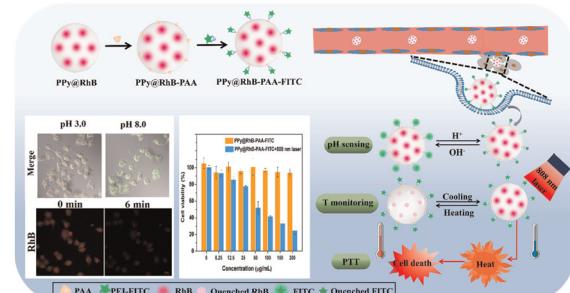
Keigo Matsubara, Yoshiyuki Watabe, Sayaka Konishi-Yamada, Nobuhiko Hosono, Takashi Uemura and Takuya Kubo*



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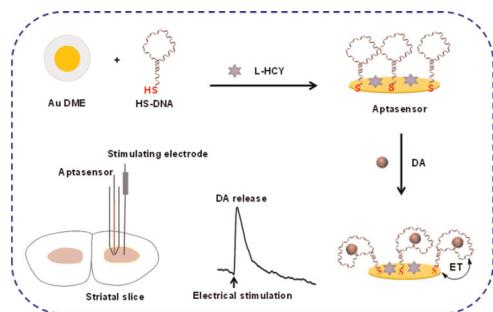
Dye-doped fluorescent polypyrrole nanotherapeutic probe as a versatile platform for ratiometric pH-sensing-guided and self-monitored photothermal therapy of tumors

Bei Li, Ruyu Li, Qi Zan, Xiaojing Chai, Xincheng Sun, Xiaoran Zhang, Chuan Dong and Shaomin Shuang*



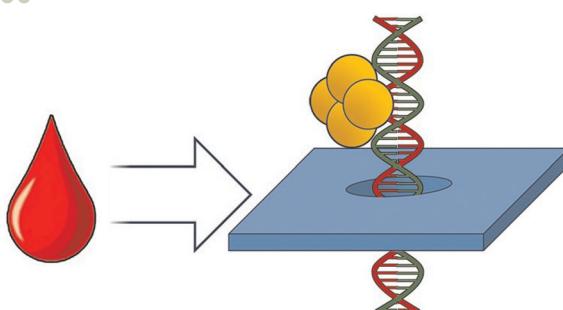
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Gold disk microelectrode-coupled label-free electrochemical aptasensor for dopamine assay

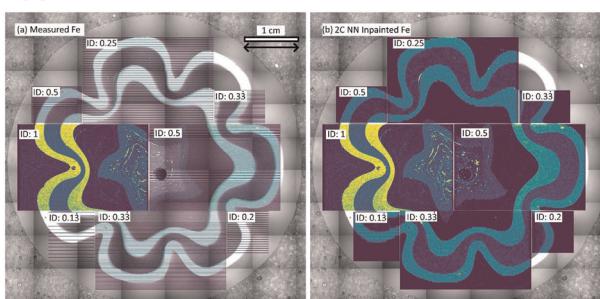
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Solid-state nanopore quantification of discrete sequence motifs from DNA and RNA targets in human plasma

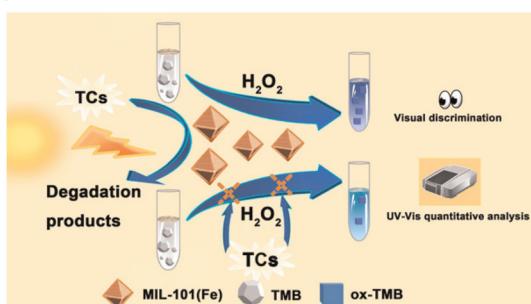
Mohamed Amin Elaguech, Komal Sethi and Adam R. Hall*

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Piers Larkman,* Sebastiano Vascon, Martin Šala, Nicolas Stoll, Carlo Barbante and Pascal Bohleber

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Killing two birds with one stone: a simple and integrated platform based on an Fe-MOF for dual-mode detection and photocatalytic elimination of tetracycline

Fushen Niu, Hui Sun, Yifan Gao, Shusen Ding, Qing Xu, Xia Dong, Xiaoling Wang, Xiaoyan Zhang,* Xiaomin Wang* and Yuan Fang*

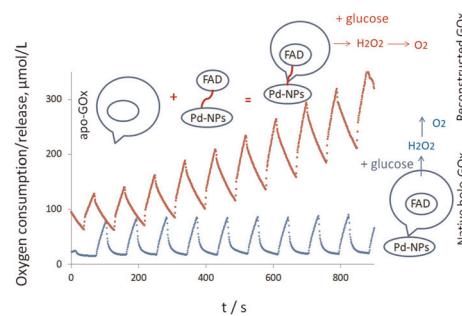


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Investigation of the binding kinetics and electrochemical properties of *in situ* reconstructed apo-GOx using electrodes with electrodeposited FAD cofactor

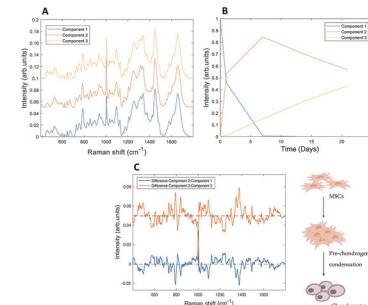
M. Koch, N. Korkmaz and Y. E. Silina*



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Monitoring the kinetic evolution of mesenchymal stem cell differentiation using Raman microspectroscopy

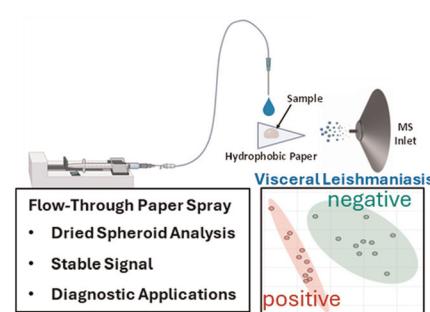
F. Raverà,* E. Efeoglu and H. J. Byrne



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Development of shotgun metabolomic profile analysis for detecting canine visceral leishmaniasis using flow-through pinhole paper spray mass spectrometry

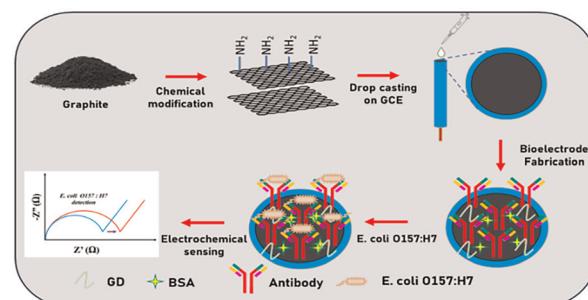
Emmanuel Dadzie Akuffu, Riley Ferguson, Jonathan N. Chilaka, Mônica Duarte da Silva, Hianka J. Costa de Carvalho, Kingsley Badu and Abraham K. Badu-Tawiah*



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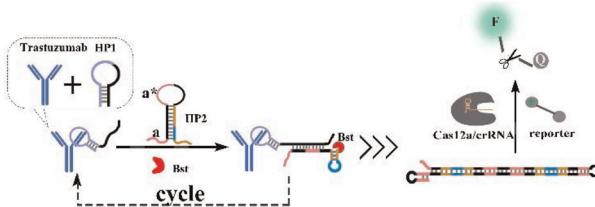
Label-free impedimetric immunosensing of pathogenic *E. coli* O157:H7 using amine functionalized carbon

Pravat Kumar Sahu, Rahul Gangwar, Asha Ramesh, Karri Trinadha Rao, Nitisha Beniwal, Aravind Kumar Rengan, Siva Rama Krishna Vanjari* and Subrahmanyam Challapalli*



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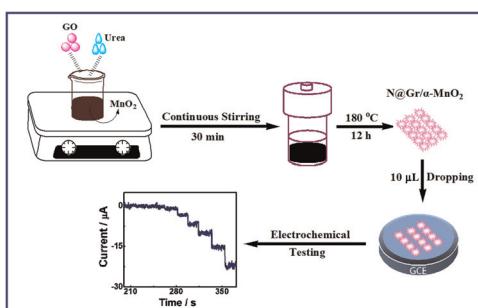
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Target-induced recycling and self-folding hairpin primer-mediated LAMP activation of CRISPR/Cas12a for highly sensitive aptamer-based therapeutic antibody assay

Kai Shi,* Junyi Zhang, Ruo Yuan and Yun Xiang*

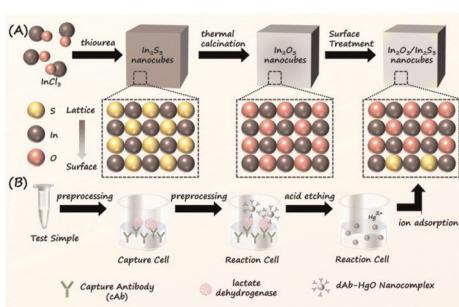
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A neural network-shaped composite of α -MnO₂ with N-doped graphene for electrocatalytic reduction of hydrogen peroxide in human urine samples

Haiyan Song,* Lihua Huo, Yingying Li, Xuefen Liu, Chunxiao He, Bowen Wu, Lipeng Wang, Lina Zhu, Jiaqi Liu, Bobo Wang, Jiaying Meng and Zhenyu Cheng*

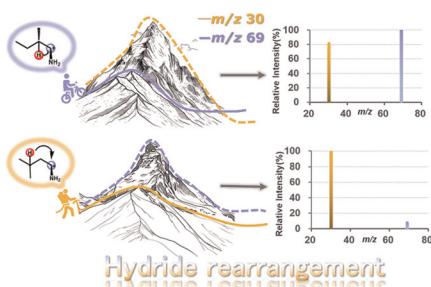
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Self-powered photoelectrochemical immunoassay of lactate dehydrogenase in melanoma patients based on the superposition of the interface polarization effect

Wenwen Zhong, Songyu Wang, Yan Zhao, Fang Fang and Jing Qi*

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Hydride rearrangements lead to different decomposition pathways for leucine and isoleucine

Ruihan Zheng, Xubo Lai, Jinmei Tan, Weiran Yang and Jinlong Chen*

