Analyst

rsc.li/analyst

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

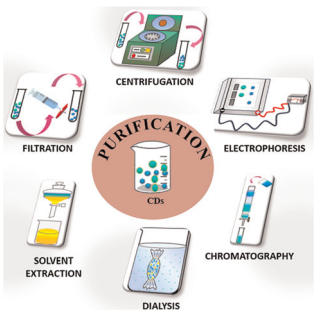
IN THIS ISSUE

ISSN 0003-2654 CODEN ANALAO 149(6) 1669–1960 (2024)

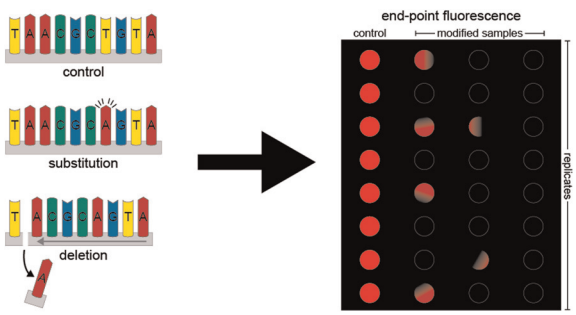
Cover
See Mehdi Javanmard *et al.*, pp. 1719–1726.

Image reproduced by permission of Mehdi Javanmard from *Analyst*, 2024, **149**, 1719.

CRITICAL REVIEW



COMMUNICATIONS



Open Access Article. Published on 11 March 2024. Downloaded on 4/2/2026 10:26:37 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

View Article Online

ROYAL SOCIETY OF CHEMISTRY

EES Catalysis

GOLD OPEN ACCESS

Exceptional research on energy and environmental catalysis

Open to everyone. Impactful for all

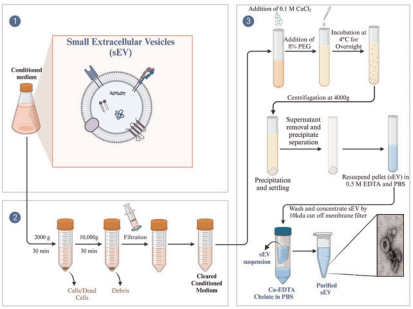
rsc.li/EESCatalysis

Fundamental questions
Elemental answers

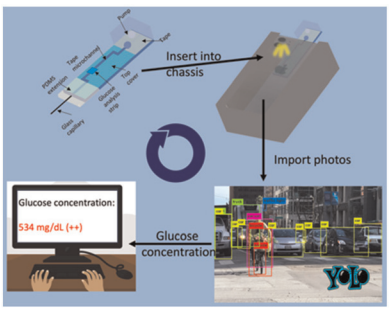
Registered charity number: 207890

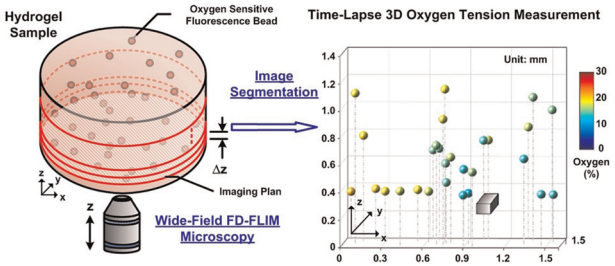
Open Access Article. Published on 11 March 2024. Downloaded on 4/2/2026 10:26:37 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

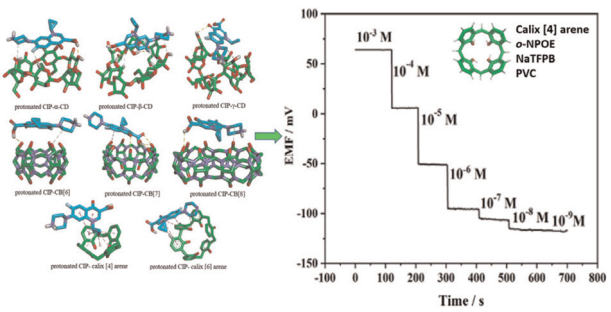
COMMUNICATIONS



PAPERS







PAPERS

Open Access Article. Published on 11 March 2024. Downloaded on 4/2/2026 10:26:37 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

This journal is © The Royal Society of Chemistry 2024

Open Access Article. Published on 11 March 2024. Downloaded on 4/2/2026 10:26:37 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

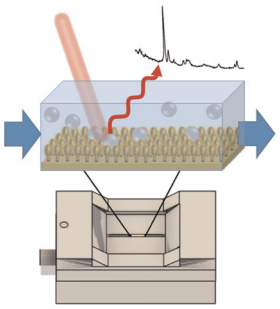
PAPERS

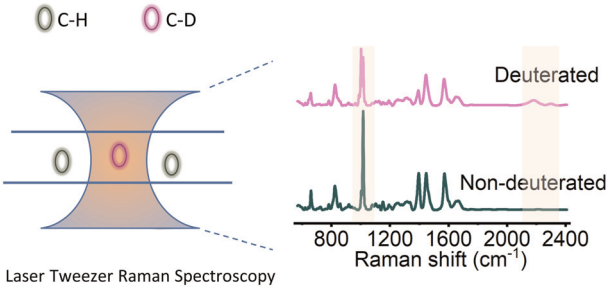
Open Access Article. Published on 11 March 2024. Downloaded on 4/2/2026 10:26:37 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

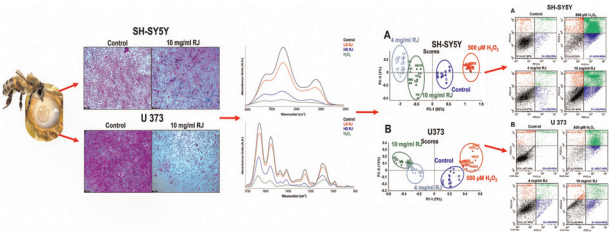
PAPERS

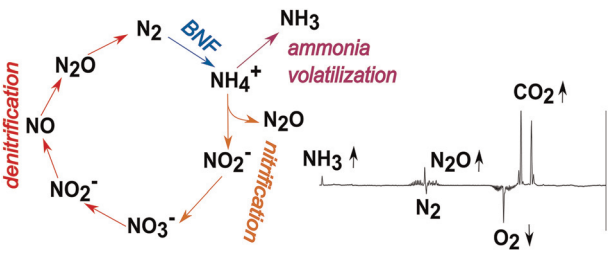
This journal is © The Royal Society of Chemistry 2024

PAPERS







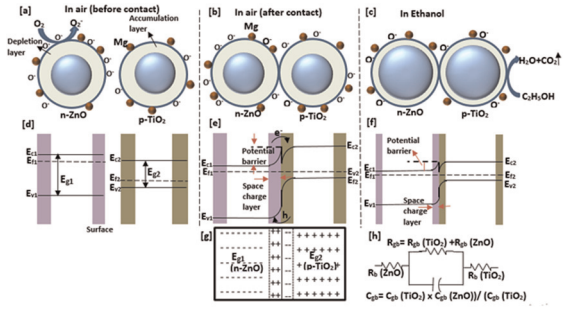


Open Access Article. Published on 11 March 2024. Downloaded on 4/2/2026 10:26:37 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

Open Access Article. Published on 11 March 2024. Downloaded on 4/2/2026 10:26:37 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.

PAPERS

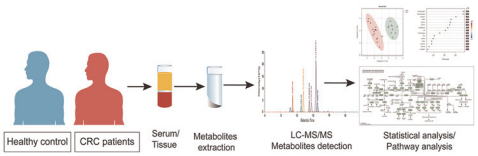
1895



Frequency-tuned selectivity enhancement of Mg@ZnO–TiO_2 nanoflake-based heterojunction sensor devices

Suman Kumar and Basanta Bhowmik*

1907



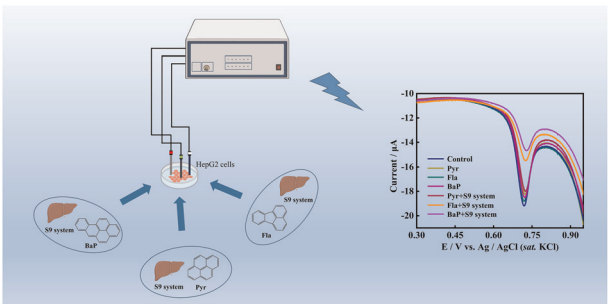
Highlights

- The arachidonic acid metabolite profiles show that the PGE2 biosynthetic pathway is upregulated in CRC
- The mPGES-2, the key protein of the PGE2 biosynthetic pathway, is upregulated in CRC.
- Elevation of the PGE2 biosynthetic pathway is associated with macrophage infiltration and CRC progression.

The arachidonic acid metabolome reveals elevation of prostaglandin E2 biosynthesis in colorectal cancer

Cuiping Zhang, Zuojian Hu, Ziyue Pan, Zhaodong Ji, Xinyi Cao, Hongxiu Yu,* Xue Qin* and Ming Guan*

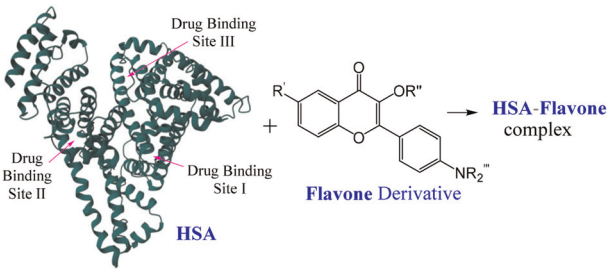
1921



The toxicity response of the electrochemical signal of the cell to the drug metabolized by the S9 system

Jiahuan Zhang, Chaoqun Fei, Shulan Qi, Jiaqi Fu, Shi Zhou, Zhong Wang, Jinlian Li,* Yanli Zhao* and Dongmei Wu*

1929



Native mass spectrometry analysis of conjugated HSA and BSA complexes with various flavonoids

Nicolas Alexander, Lucas McDonald, Chrys Wesdemiotis* and Yi Pang*

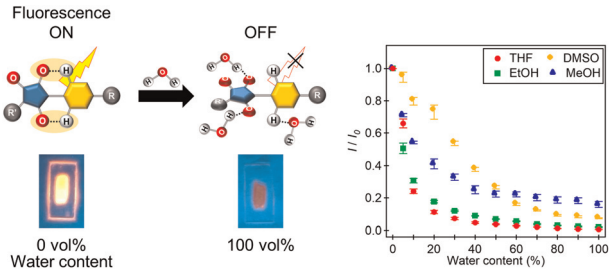
This journal is © The Royal Society of Chemistry 2024

PAPERS

1939

Water detection in organic solvents using a copolymer membrane immobilised with a fluorescent intramolecular charge transfer-type dye: effects of intramolecular hydrogen bonds

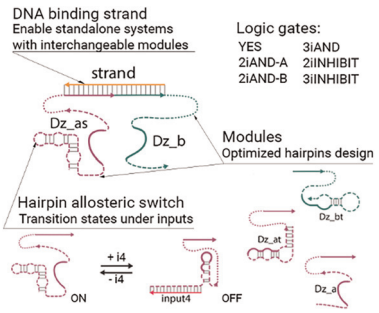
Ami Morimoto, Kei Shimizu, Naoya Suzuki, Shigeyuki Yagi, Kenji Sueyoshi, Tatsuro Endo and Hideaki Hisamoto*



1947

Towards the development of a DNA automaton: modular RNA-cleaving deoxyribozyme logic gates regulated by miRNAs

Viktor V. Smirnov, Valerya S. Drozd, Christina K. Patra, Zain Hussein, Daria S. Rybalko, Anastasia V. Kozlova, Moustapha A. Y. Nour, Tatiana P. Zemerova, Olga S. Kolosova, Arseniy Y. Kalnin and Ahmed A. El-Deeb*



Open Access Article. Published on 11 March 2024. Downloaded on 4/2/2026 10:26:37 PM.
This article is licensed under a Creative Commons Attribution 3.0 Unported Licence.