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Sensors & Diagnostics

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See Heather A. Clark *et al.*, pp. 623–630.
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Inside cover
See Apurba Lal Koner *et al.*, pp. 585–598.
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CRITICAL REVIEWS

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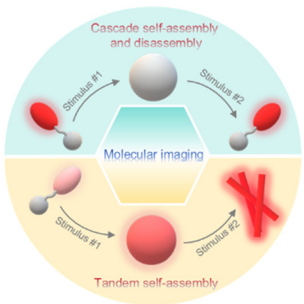
Stimuli-instructed sequential morphological transformations for molecular imaging

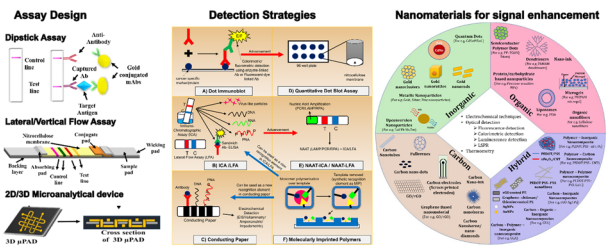
Peiyao Chen, Liling Meng, Tuotuo Zhang and Yao Sun*



504

Paper-based point of care diagnostics for cancer biomarkers

Prateek Bhardwaj,* Bharti Arora, Survanshu Saxena, Subhasini Singh, Pranoti Palkar, Jayant Sastri Goda* and Rinti Banerjee



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CRITICAL REVIEWS

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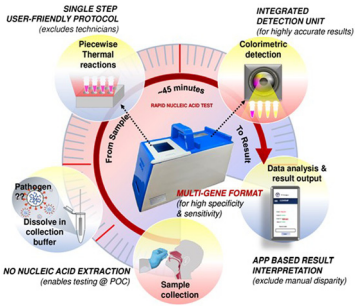
Democratizing nucleic acid-based molecular diagnostic tests for infectious diseases at resource-limited settings – from point of care to extreme point of care

Suman Chakraborty



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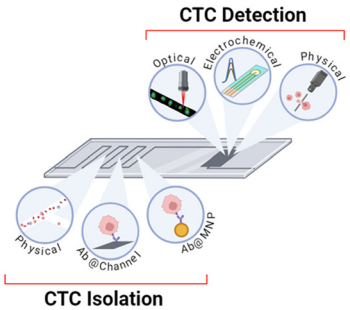
The integrated on-chip isolation and detection of circulating tumour cells

Sophia M. Abusamra, Robert Barber, Mohamed Sharafeldin, Claire M. Edwards and Jason J. Davis*



TUTORIAL REVIEWS

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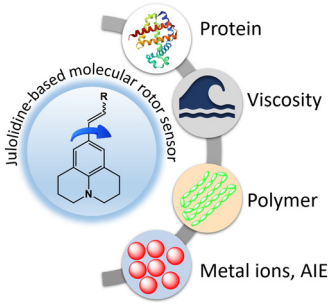
Julolidine-based fluorescent molecular rotor: a versatile tool for sensing and diagnosis

Nabashree Chakraborty, Akshay Silswal and Apurba Lal Koner*



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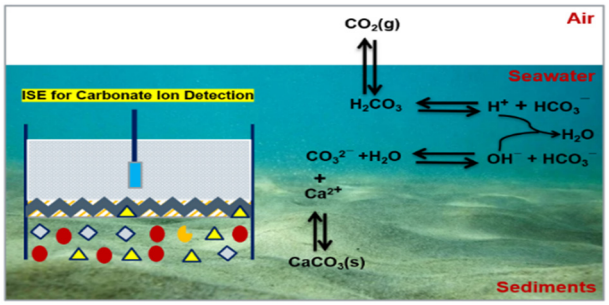
Recent developments in ionophore-based potentiometric electrochemical sensors for oceanic carbonate detection

Stefanny N. Toala, Zhentao Sun, Yanfeng Yue,* Stephen F. Gonski and Wei-Jun Cai*



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PAPERS

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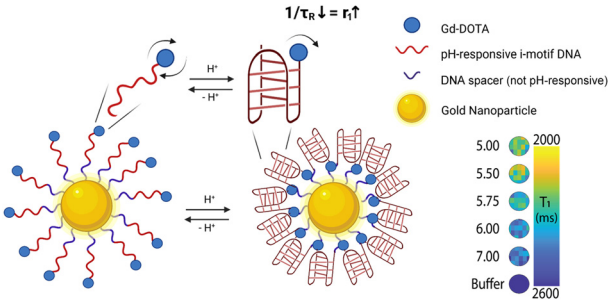

pH-responsive i-motif-conjugated nanoparticles for MRI analysis

Kristine Y. Ma, Mireia Perera-Gonzalez, Nicole I. Langlois, Owen M. Alzubi, Joseph D. Guimond, Chris A. Flask and Heather A. Clark*

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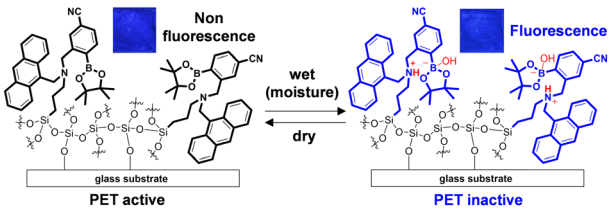

Anthracene-(aminomethyl)phenylboronic acid ester-immobilized glass substrates as fluorescent sensing materials based on photo-induced electron transfer for detection and visualization of water

Kazuki Tao, Keiichi Imato and Yousuke Ooyama*

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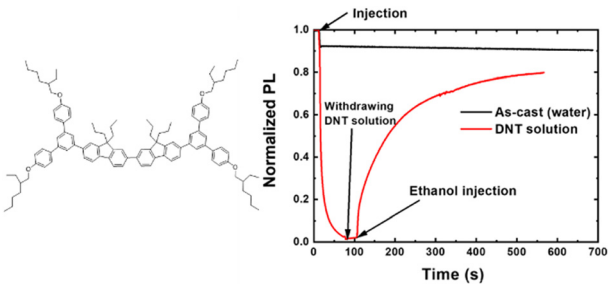

Real-time detection of TNT analogues in water using fluorescent dendrimer films

Mohammad A. Ali, Shengqiang Fan, Paul L. Burn,* Ian R. Gentle* and Paul E. Shaw

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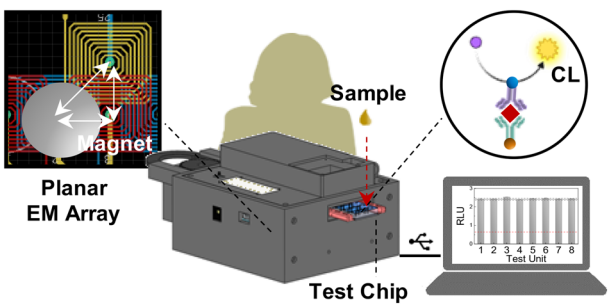

Portable microfluidic immunoassay platform for the detection of inflammatory protein biomarkers

Gihoon Choi, Betty B. Mangadu, Yooli K. Light and Robert J. Meagher*

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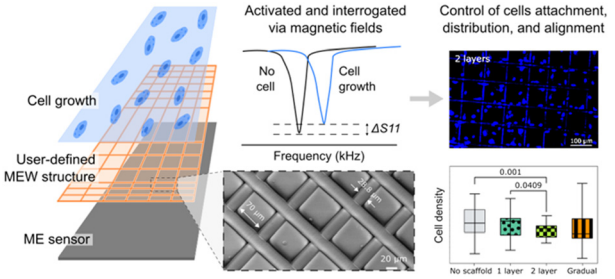
Integration of melt electrowritten microfibers with magnetoelastic sensors for continuous monitoring of cell growth

William S. Skinner, Paula G. Saiz, Ander Reizabal, Jeffrey E. Plumley, Paul D. Dalton and Keat Ghee Ong*



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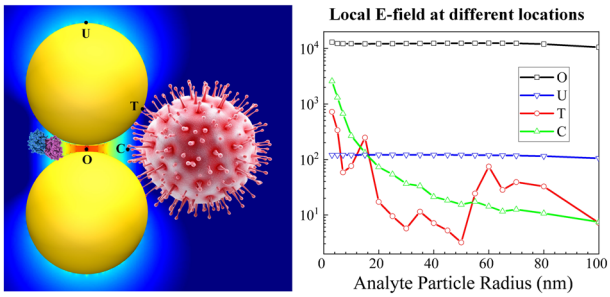
The impact of analyte size on SERS enhancement location, enhancement factor, excitation wavelength, and spectrum

Yanjun Yang, Xinyi Chen, Bin Ai and Yiping Zhao*



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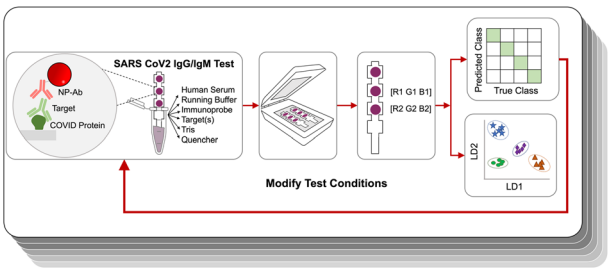
An approach to use machine learning to optimize paper immunoassays for SARS-CoV-2 IgG and IgM antibodies

Josselyn Mata Calidonio and Kimberly Hamad-Schifferli*



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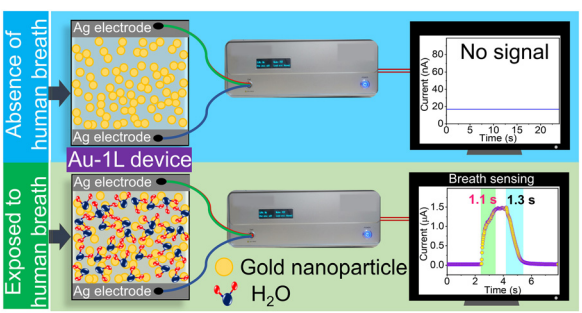
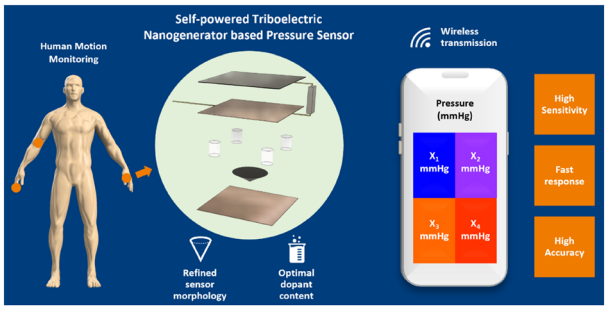
Flexible & transparent breath sensor and conducting electrodes based on a highly interconnected Au nanoparticle network

Namuni Sneha and S. Kiruthika*





Self-powered triboelectric nanogenerator with enhanced surface charge density for dynamic multidirectional pressure sensing

Jiaqi Wu, Yu Zhang and Xin Ting Zheng*

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