

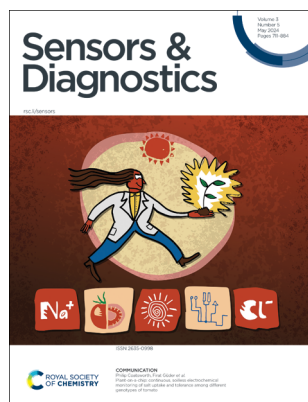
# Sensors & Diagnostics

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## IN THIS ISSUE

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**Cover**  
See Philip Coatsworth, Firat Güder *et al.*, pp. 799–808.  
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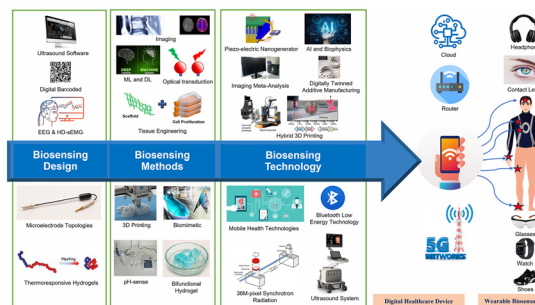
**Inside cover**  
See Thorfinnur Gunnlaugsson, Sankarasekaran Shanmugaraju *et al.*, pp. 783–798.  
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## CRITICAL REVIEWS

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### Emergence of integrated biosensing-enabled digital healthcare devices

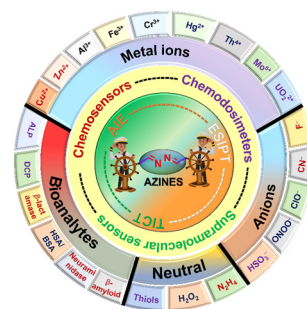
Anshuman Mishra, Pravin Kumar Singh, Nidhi Chauhan, Souradeep Roy, Ayushi Tiwari, Shaivya Gupta, Aanshi Tiwari, Santanu Patra, Trupti R. Das, Prashant Mishra, Ahmad Soltani Nejad, Yogesh Kumar Shukla, Utkarsh Jain\* and Ashutosh Tiwari\*



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### Aggregation-induced emission-active azines for chemosensing applications: a five-year update

Akhil A. Bhosle, Mainak Banerjee\* and Amrita Chatterjee\*





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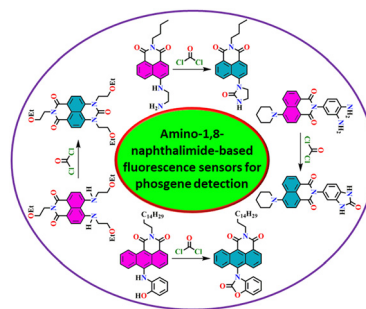


## TUTORIAL REVIEW

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### Reactivity-based amino-1,8-naphthalimide fluorescent chemosensors for the detection and monitoring of phosgene

Mannanthara Kunhumon Noushija,  
Alenthwar Vamshi Krishna, Thorfinnur Gunnlaugsson\*  
and Sankarasekaran Shanmugaraju\*

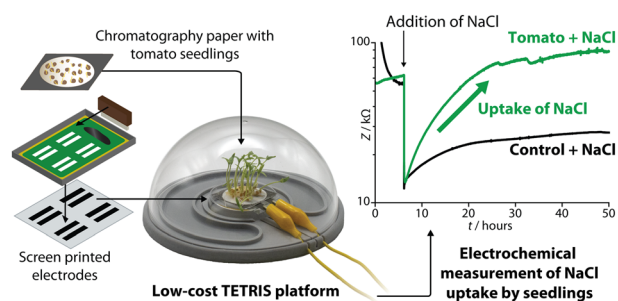


## COMMUNICATIONS

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### Plant-on-a-chip: continuous, soilless electrochemical monitoring of salt uptake and tolerance among different genotypes of tomato

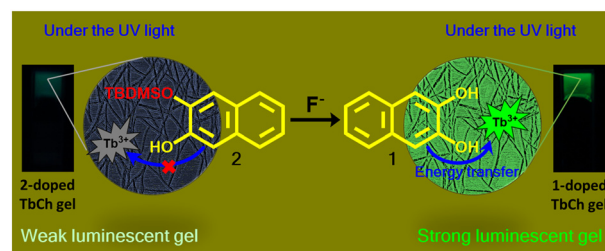
Philip Coatsworth,\* Yasin Cotur, Tarek Asfour,  
Zihao Zhou, José M. R. Flauzino, Tolga Bozkurt  
and Firat Güder\*



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### A sensitive paper-based sensor for fluoride detection in water using Tb<sup>3+</sup> photoluminescence

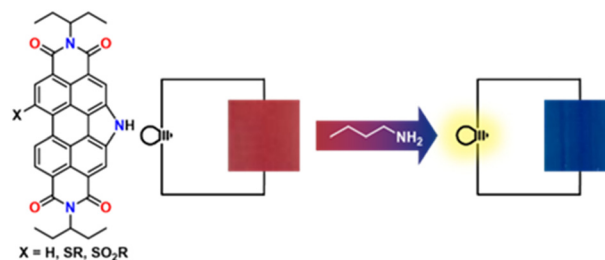
Pankaj Kumar Chaturvedi and Uday Maitra\*



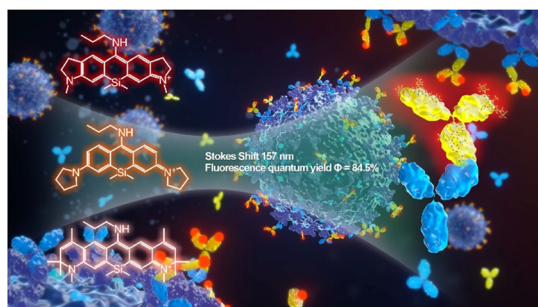
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### Flexible dual-action colorimetric-electronic amine sensors based on N-annulated perylene diimide dyes

Michael J. Grant, Anderson Hoff, Loren G. Kaake  
and Gregory C. Welch\*



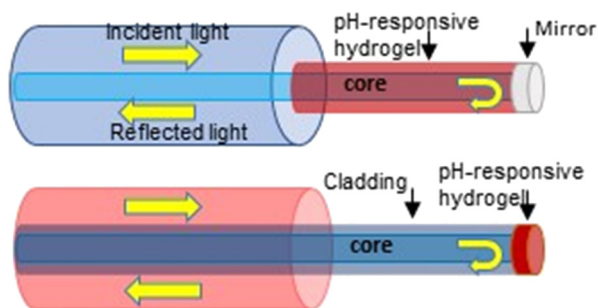
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### Si-rhodamine derivative with a large Stokes shift for ELISA-based detection of SARS-CoV-2

Yan-Hong Liu, Hong Zhang, Kang-Kang Yu, Xiao-Fang Pei, Jia-Nan Xu, Shan-Yong Chen, Xiao-Qi Yu and Kun Li\*

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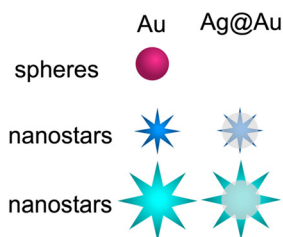


### Fiber-optic probes for real-time pH monitoring

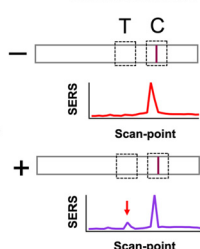
Mohamed Elsharif,\* Fahad Alam, Ahmed E. Salih, Xinyu Wang, Peter R. Corridon, Khalil B. Ramadi and Haider Butt\*

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### Survey of nanomaterials



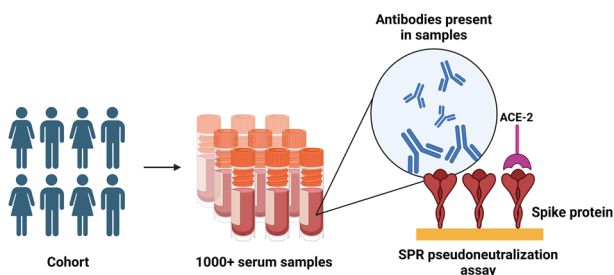
### Improved detection of endotoxins



### Improved point-of-care detection of *P. gingivalis* using optimized surface-enhanced Raman scattering in lateral flow assays

Lyndsay N. Kissell, Daewoo Han, Der Vang, Alexander W. R. Cikanek, Andrew J. Steckl\* and Pietro Strobbia\*

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### Large-scale validation of a plasmonic sensor for SARS-CoV-2 pseudo-neutralization with a cohort of food and retail workers

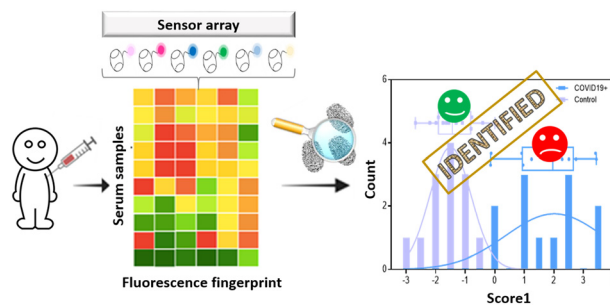
Julien Coutu, Pierre Ricard, Abdelhadi Djaïleb, Étienne Lavallée, Henintsoa Rabezanahary, Matthew Stuiblé, Yves Durocher, Caroline Gilbert, Nicholas Brousseau, Kim Santerre, Mathieu Thériault, Sylvie Trottier, Denis Boudreau, Marc-André Langlois, Joelle N. Pelletier, Mariana Baz and Jean-Francois Masson\*



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## A methodological study for the diagnosis of the SARS-Cov-2 infection in human serum with a macrocyclic sensor array

Monica Swetha Bosco, Zeki Topçu, Soumen Pradhan, Ariadne Sossah, Vassilis Tsatsaris, Christelle Vauloup-Fellous, Sarit S. Agasti, Yves Rozenholc and Nathalie Gagey-Eilstein\*



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## Detection of TNP and sulfite ions in an aqueous medium using a pyrazinium-based chemosensor

Pragya, Krishnan Rangan and Bharti Khungar\*

