

# Lab on a Chip

Devices and applications at the micro- and nanoscale  
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ISSN 1473-0197 CODEN LCAHAM 23(14) 3123–3302 (2023)



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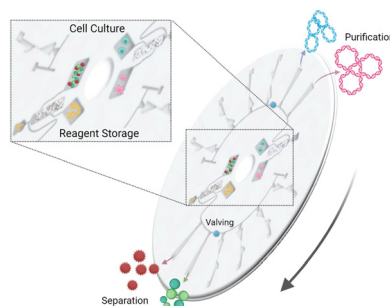
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### Integrated membranes within centrifugal microfluidic devices: a review

Killian C. O'Connell\* and James P. Landers

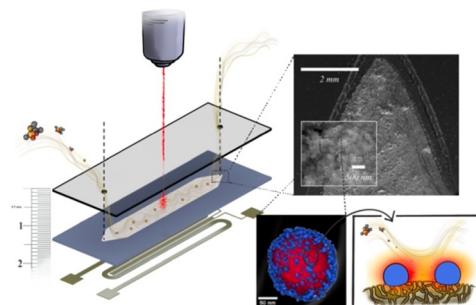


## PAPERS

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### On-chip monitoring of toxic gases: capture and label-free SERS detection with plasmonic mesoporous sorbents

Marta Lafuente, Fernando Almazán, Eduardo Bernad, Ileana Florea, Raul Arenal, Miguel A. Urbiztondo, Reyes Mallada and Maria P. Pina\*



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Lab on a Chip (electronic: ISSN 1473-0189) is published  
24 times a year by the Royal Society of Chemistry,  
Thomas Graham House, Science Park, Milton Road,  
Cambridge, UK CB4 0WF.

All orders, with cheques made payable to the Royal Society of  
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2023 Annual (electronic) subscription price: £1617; US\$2902.  
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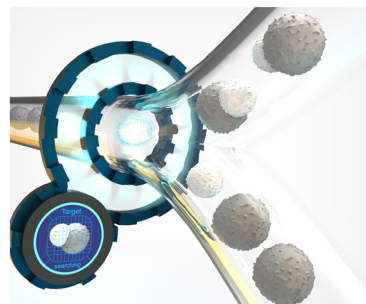


## PAPERS

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**High-precision, low-complexity, high-resolution microscopy-based cell sorting**

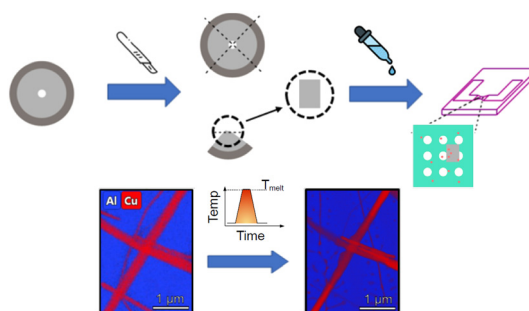
Tobias Gerling, Neus Godino, Felix Pfisterer, Nina Hupf and Michael Kirschbaum\*



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***In situ* transmission electron microscopy as a toolbox for the emerging science of nanometallurgy**

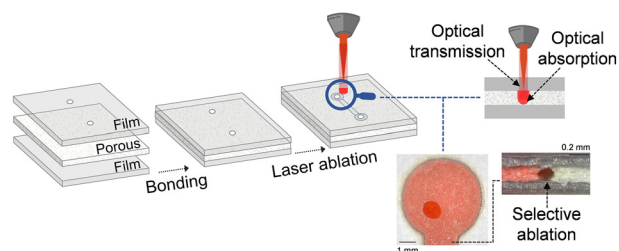
Diego S. R. Coradini,\* Matheus A. Tunes, Patrick Willenshofer, Sebastian Samberger, Thomas Kremmer, Phillip Dumitraschkewitz, Peter J. Uggowitzer and Stefan Pogatscher



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**Selective laser ablation for *in situ* fabrication of enclosed channel porous-media microfluidic analytical devices**

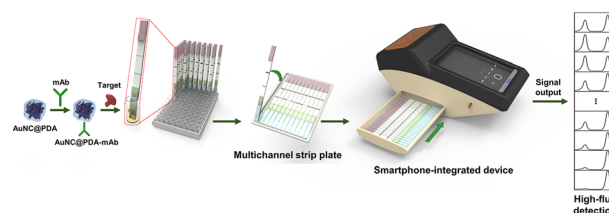
Saichon Sumantakul and Vincent T. Remcho\*



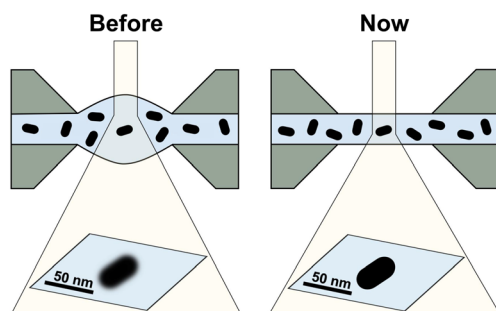
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**High-flux smartphone-integrated lateral flow assay based on chrysanthemum-like Au@polydopamine for sensitive detection of enrofloxacin in milk**

Ganggang Zhang, Xiaocui Lai, Weihua He, Liu Su, Gan Zhang, Weihua Lai and Shengliang Deng\*



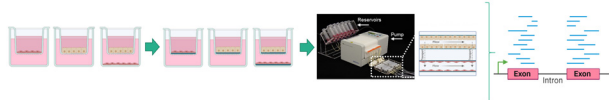
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### Robust fully controlled nanometer liquid layers for high resolution liquid-cell electron microscopy

Tyler S. Lott, Ariel A. Petruk, Nicolette A. Shaw, Natalie Hamada, Carmen M. Andrei, Yibo Liu, Juewen Liu and Germán Sciaini\*

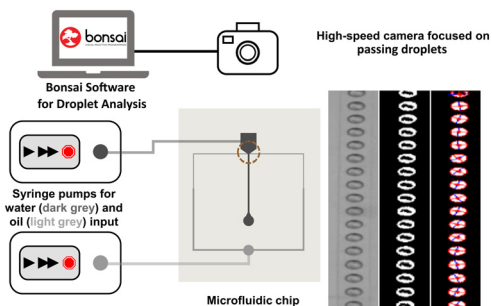
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Miguel Carracedo, Sanlin Robinson, Babak Alaei, Maryam Clausen, Ryan Hicks, Graham Belfield, Magnus Althage, Annette Bak, Jennifer A. Lewis, Pernille B. L. Hansen and Julie M. Williams\*

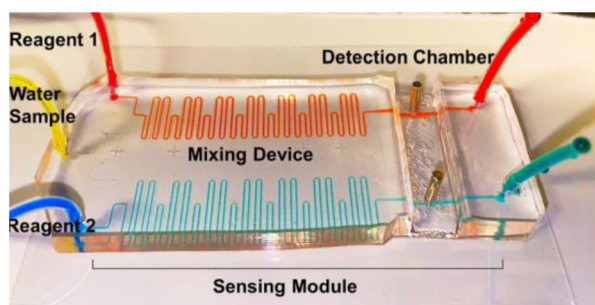
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Joana P. Neto,\* Ana Mota, Gonalo Lopes, Beatriz J. Coelho, Joo Frazo, Andr T. Moura, Beatriz Oliveira, Brbara Sieira, Jos Fernandes, Elvira Fortunato, Rodrigo Martins, Rui Igreja, Pedro V. Baptista and Hugo guas\*

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Hamid Aghamohammadi, Kathryn E. Thomas, Sanjana Srikant, Jason Deglint, Alexander Wong and Mahla Poudineh\*

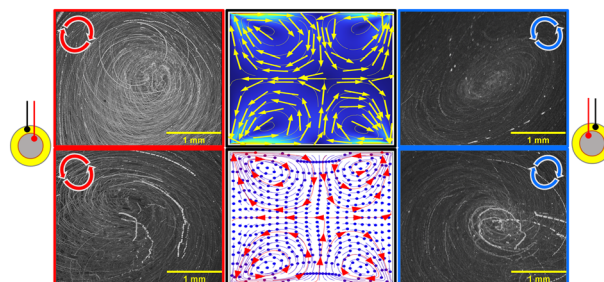


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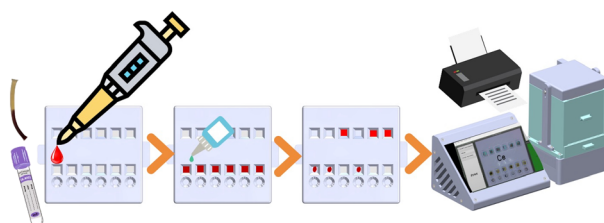
Muaz S. Draz,\* Diego Dupouy and Martin A. M. Gijs



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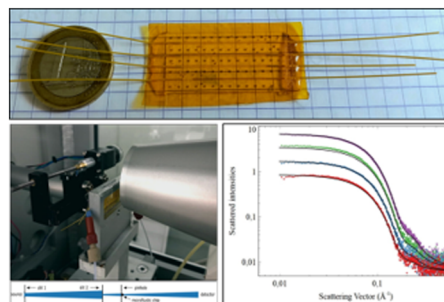
Sirinart Chomean, Apicit Tantaworrasi, Pished Bunnun, Napasorn Na-nan, Kasama Prasert and Chollanot Kaset\*



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Dimitri Radajewski,\* Pierre Roblin, Patrice Bacchin, Martine Meireles and Yannick Hallez\*



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**Continuous molecular monitoring of human dermal interstitial fluid with microneedle-enabled electrochemical aptamer sensors**

Mark Friedel,\* Benjamin Werbovetz, Amy Drexelius, Zach Watkins, Ahilya Bali, Kevin W. Plaxco and Jason Heikenfeld

