

Lab on a Chip

Devices and applications at the micro- and nanoscale
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ISSN 1473-0197 CODEN LCAHAM 23(18) 3897-4148 (2023)



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See Jose M. Ayuso *et al.*,
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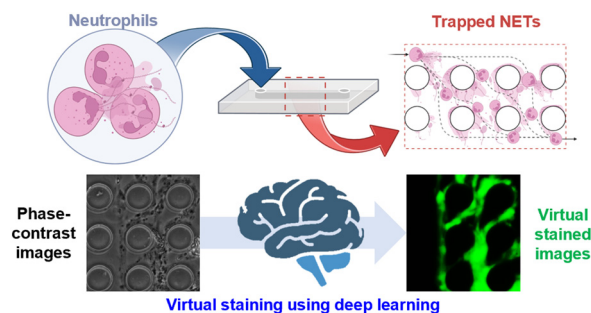


COMMUNICATION

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Chayakorn Petchakup, Siong Onn Wong, Rinkoo Dalan and Han Wei Hou*



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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.

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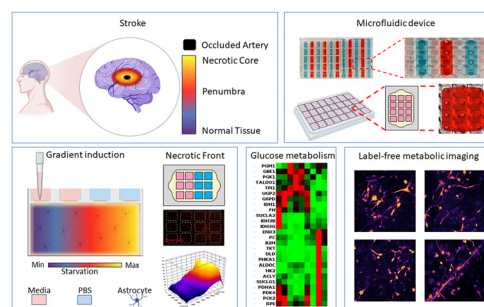
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Microfluidic device with reconfigurable spatial temporal gradients reveals plastic astrocyte response to stroke and reperfusion

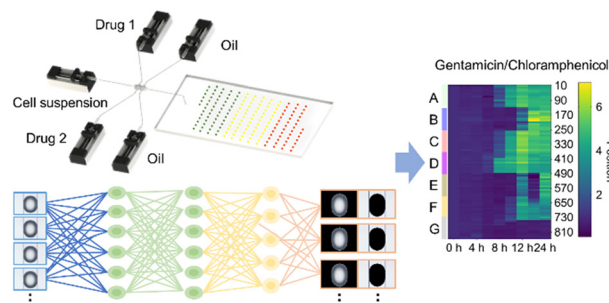
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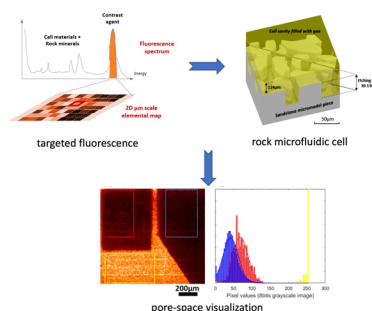
Deyu Yang, Ziming Yu, Mengxin Zheng, Wei Yang, Zhangcai Liu, Jianhua Zhou* and Lu Huang*



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Micro X-ray fluorescence reveals pore space details and spatially-resolved porosity of rock-based microfluidic devices

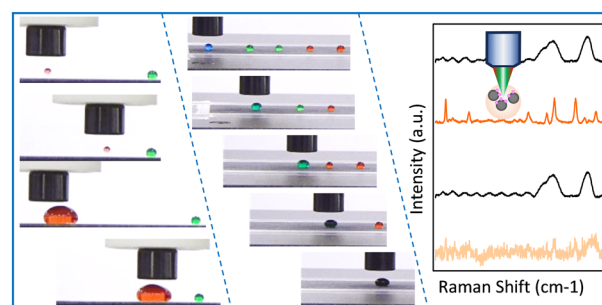
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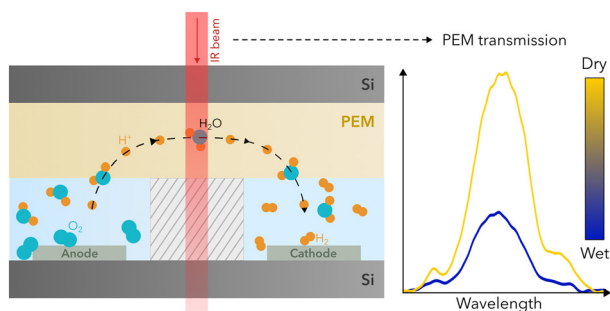
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Tao Luo,* Sirui Liu, Rui Zhou, Chen Zhang, Dongyang Chen, Yi Zhan, Qilin Hu, Xi He, Yu Xie, Zhijie Huan, Wendi Gao, Ruirui Li, Gongfa Yuan, Yancheng Wang and Wei Zhou*



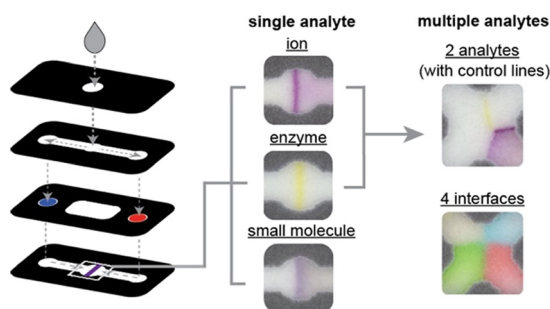
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Probing membrane hydration in microfluidic polymer electrolyte membrane electrolyzers via operando synchrotron Fourier-transform infrared spectroscopy

Kevin Krause, Marine Garcia, Dominique Michau, Gérald Clisson, Brant Billinghamurst, Jean-Luc Battaglia and Stéphane Chevalier*

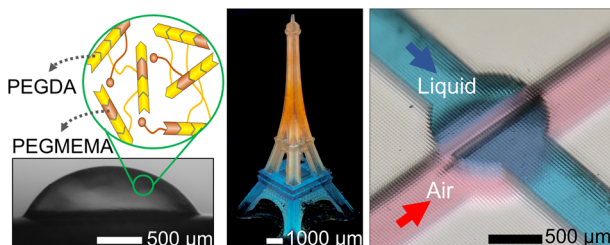
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Generating signals at converging liquid fronts to create line-format readouts of soluble assay products in three-dimensional paper-based devices

Ibrahim H. Abdullah, Daniel J. Wilson, Andrea C. Mora, Rayleigh W. Parker and Charles R. Mace*

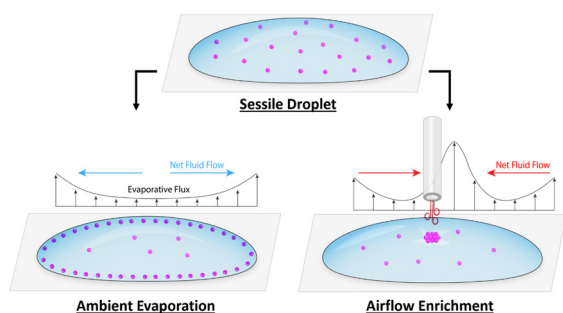
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Tunable resins with PDMS-like elastic modulus for stereolithographic 3D-printing of multimaterial microfluidic actuators

Alireza Ahmadianyazdi,* Isaac J. Miller and Albert Folch

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Sample preconcentration through airjet-induced liquid phase enrichment

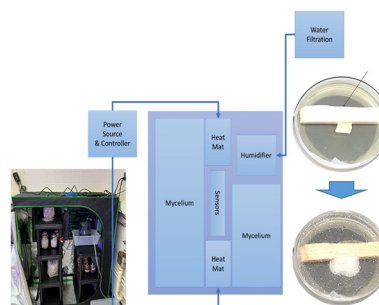
Edward Wang, Louise C. Laurent, Drew A. Hall and Yu-Hwa Lo*



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Design and build a green tent environment for growing and charactering mycelium growth in lab

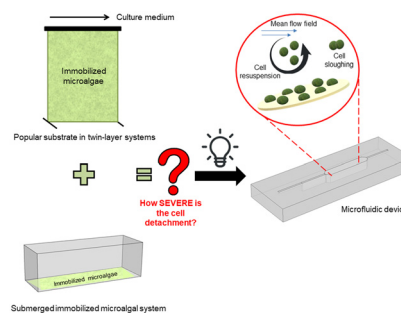
Libin Yang, Ruohan Xu, Anushka Joardar, Michael Amponsah, Nina Sharifi, Bing Dong and Zhao Qin*



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A microscale system for *in situ* investigation of immobilized microalgal cell resistance against liquid flow in the early inoculation stage

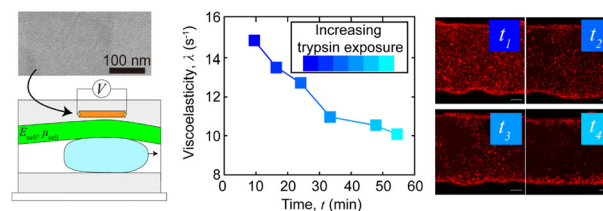
C. Y. Tong, Huai Z. Li* and C. J. C. Derek*



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In situ measurement of viscoelastic properties of cellular monolayers via graphene strain sensing of elastohydrodynamic phenomena

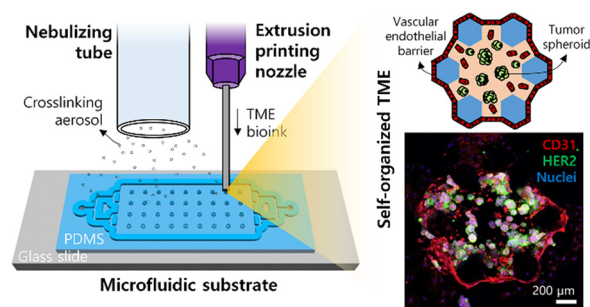
Tianzheng Guo, Xiaoyu Zou, Shalini Sundar, Xinqiao Jia and Charles Dhong*



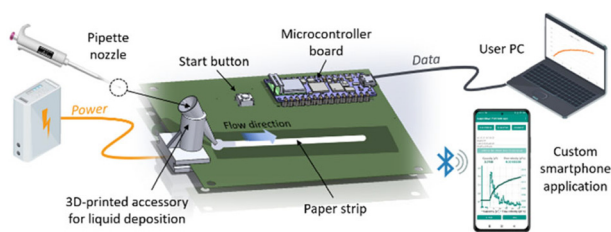
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Fabrication of a self-assembled and vascularized tumor array via bioprinting on a microfluidic chip

Gihyun Lee, Soo Jee Kim and Je-Kyun Park*



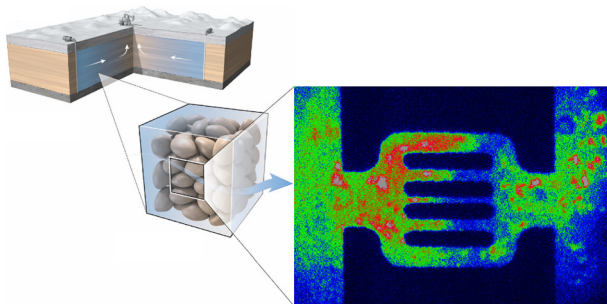
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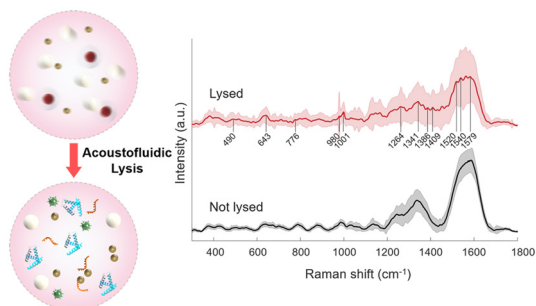
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A single-molecule study on polymer fluid dynamics in porous media

Antonia Sugar, Maged Serag, Ulrich Buttner, Satoshi Habuchi* and Hussein Hoteit*

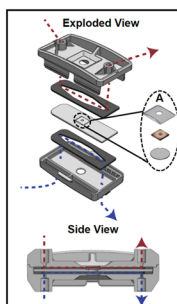
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Microfluidic organotypic device to test intestinal mucosal barrier permeability *ex vivo*

Amanda E. Cherwin, Hayley N. Templeton, Alexis T. Ehrlich, Brielle H. Patlin, Charles S. Henry* and Stuart A. Tobet*



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