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Devices and applications at the micro- and nanoscale rsc.li/loc

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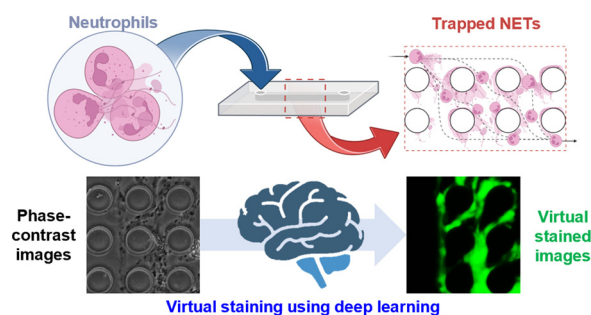


COMMUNICATION

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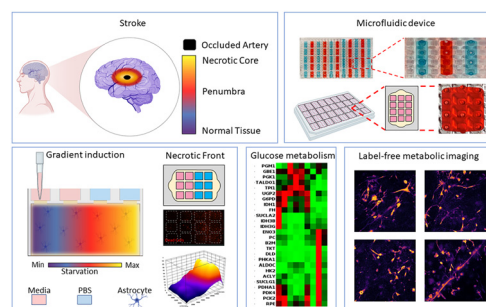


PAPERS

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

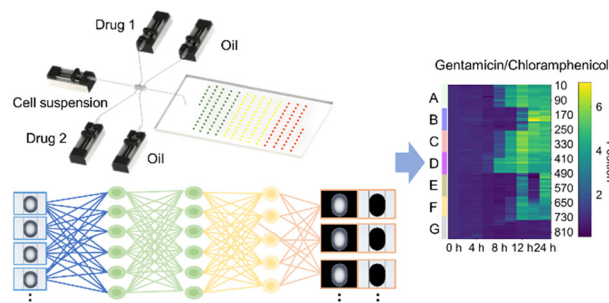
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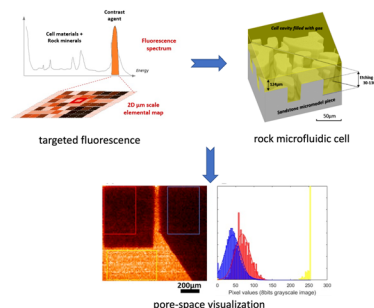
Deyu Yang, Ziming Yu, Mengxin Zheng, Wei Yang, Zhangcai Liu, Jianhua Zhou* and Lu Huang*



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

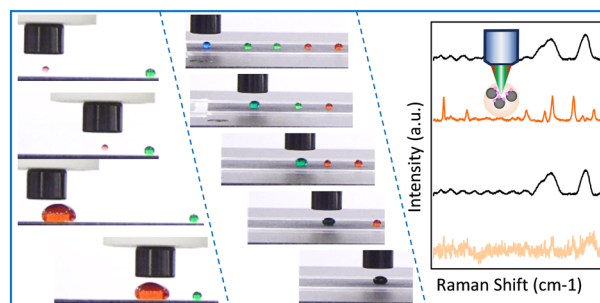
Laura Frouté, Kelly M. Guan, Wenbing Yun, Sylvia J. Y. Lewis, Benjamin D. Stripe, Xiaolin Yang, Alexandre Lapene, Anthony R. Kovscek* and Patrice Creux



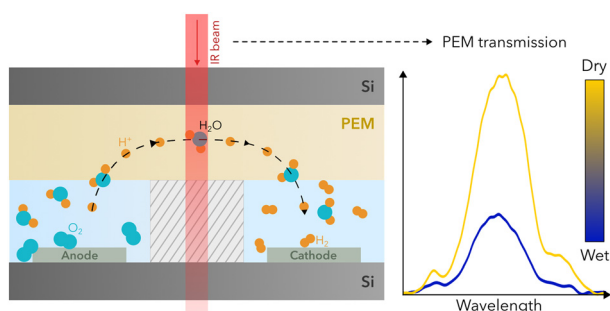
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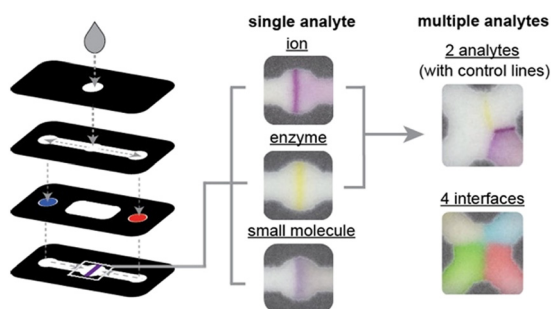
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Kevin Krause, Marine Garcia, Dominique Michau, Gérald Clisson, Brant Billinghamurst, Jean-Luc Battaglia and Stéphane Chevalier*

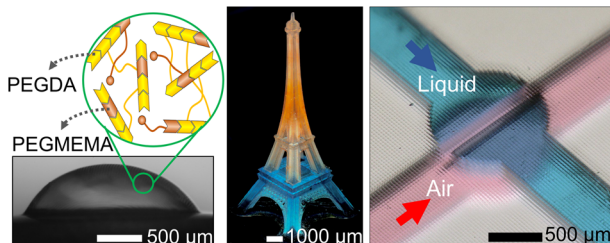
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Generating signals at converging liquid fronts to create line-format readouts of soluble assay products in three-dimensional paper-based devices

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

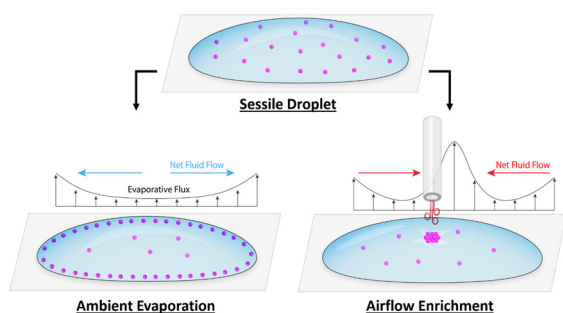
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Tunable resins with PDMS-like elastic modulus for stereolithographic 3D-printing of multimaterial microfluidic actuators

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*

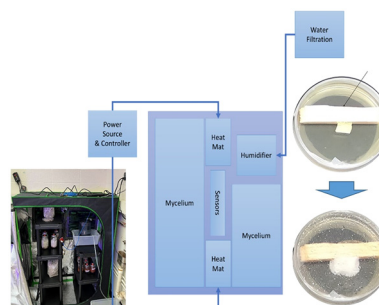


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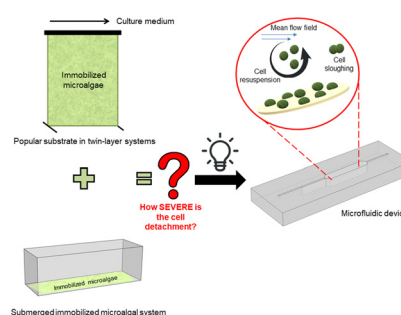
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A microscale system for *in situ* investigation of immobilized microalgal cell resistance against liquid flow in the early inoculation stage

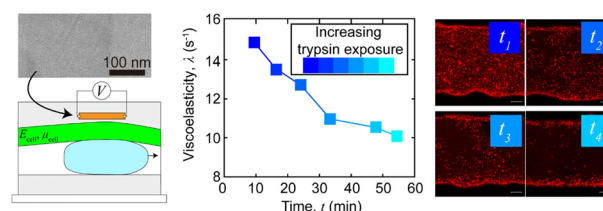
C. Y. Tong, Huai Z. Li* and C. J. C. Derek*



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

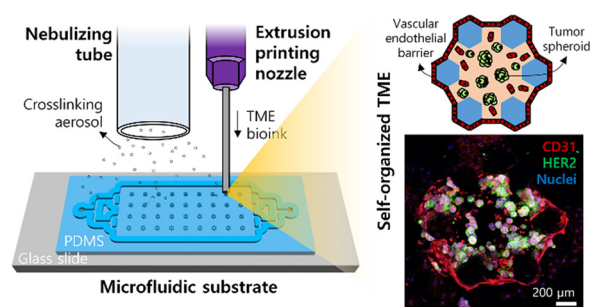
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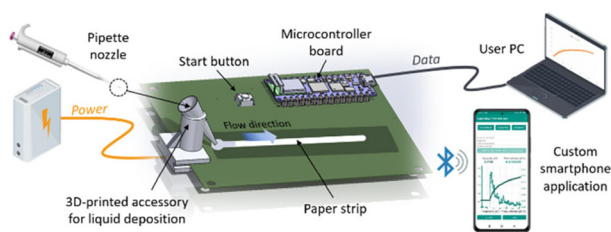
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Gihyun Lee, Soo Jee Kim and Je-Kyun Park*



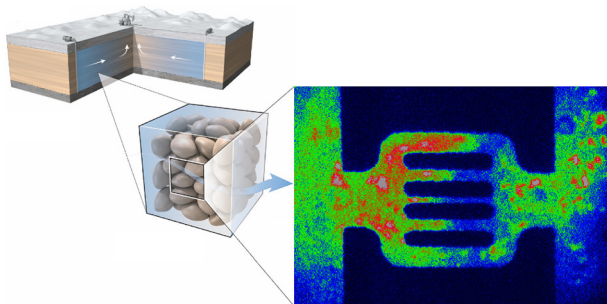
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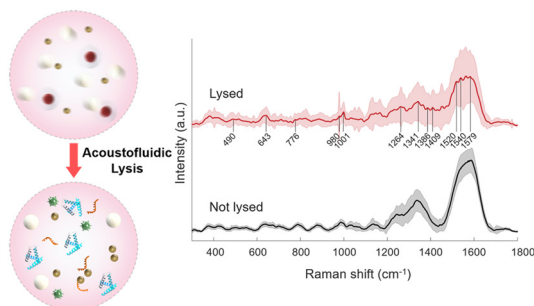
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Antonia Sugar, Maged Serag, Ulrich Buttner, Satoshi Habuchi* and Hussein Hoteit*

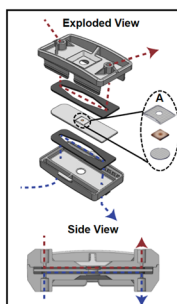
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Amanda E. Cherwin, Hayley N. Templeton, Alexis T. Ehrlich, Brielle H. Patlin, Charles S. Henry* and Stuart A. Tobet*



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Sripadh Guptha Yedire, Imman Isaac Hosseini, Hamed Shieh, Arash Khorrami Jahromi, Tamer AbdelFatah, Mahsa Jalali and Sara Mahshid*

