

Lab on a Chip

Devices and applications at the micro- and nanoscale
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See Ke Du *et al.*,
pp. 2157–2167.
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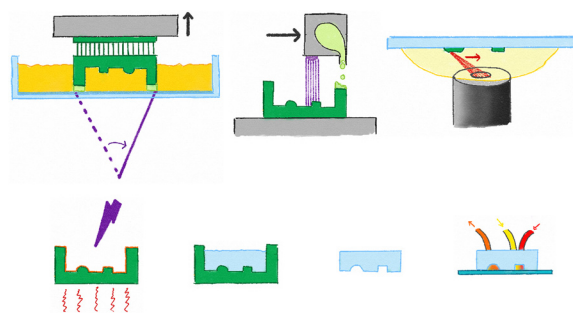
Inside cover
See Alina Deipenbrock and
Nicole E. Teusch *et al.*,
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CRITICAL REVIEW

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Light-based 3D printing and post-treatments of moulds for PDMS soft lithography

Bastien Venzac

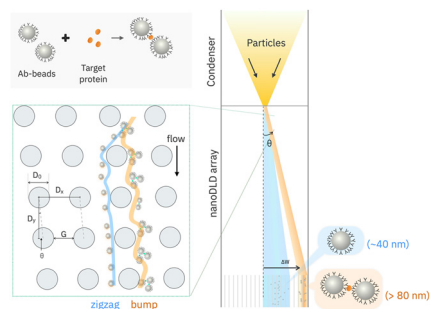


COMMUNICATION

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Bioselective agglutination induced nanoscale deterministic lateral displacement

Kuan Yu Hsieh, Joshua T. Smith, Sung-Cheol Kim,
Stacey M. Gifford, Michael Pereira, Guan-Yu Chen*
and Benjamin H. Wunsch*



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Elemental answers

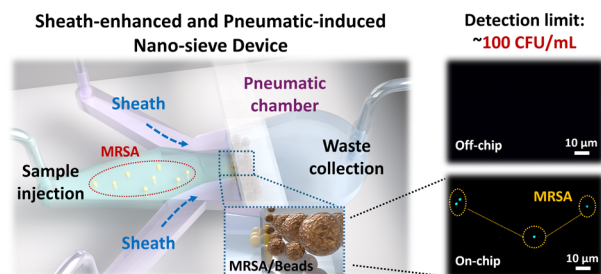
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Sheath-enhanced concentration and on-chip detection of bacteria from an extremely low-concentration level

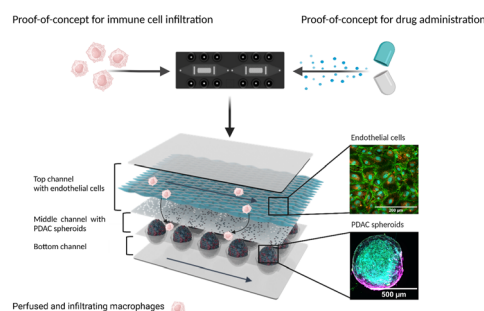
Xinye Chen, Ruonan Peng, Ruo-Qian Wang and Ke Du*



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Modelling of the multicellular tumor microenvironment of pancreatic ductal adenocarcinoma (PDAC) on a fit-for-purpose biochip for preclinical drug discovery

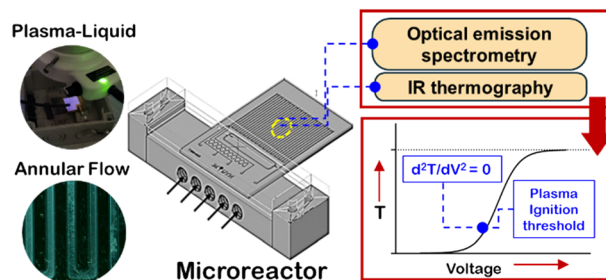
Alina Deipenbrock, Ben Eric Wilmes, Thomas Sommermann, Nader Abdo, Kyra Moustakas, Martin Raasch, Knut Rennert and Nicole E. Teusch*



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Ignition of non-equilibrium methane dielectric barrier discharges in a multiphase plasma-liquid microfluidic device

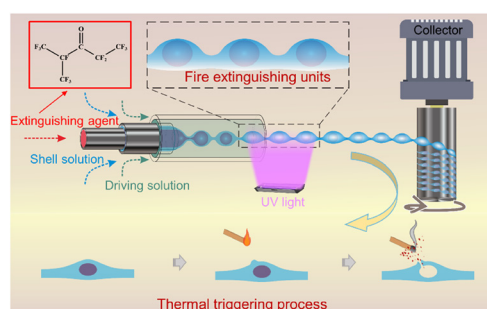
Sudip Das, Mackenzie Meyer, Mark J. Kushner and Ryan L. Hartman*



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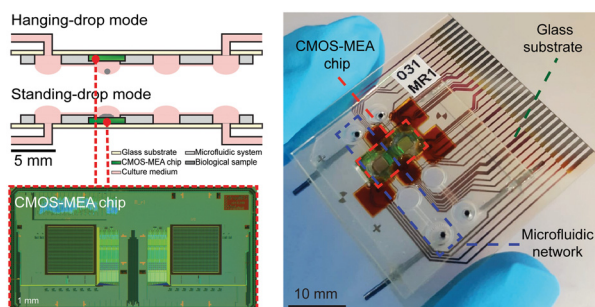
Array-structured microcapsule fibers for efficient fire extinguishing in confined spaces

Qiaosheng Pan, Ning Sang, Tianpei Zhou, Changzheng Wu, Ting Si, Fangsheng Huang* and Zhiqiang Zhu*



PAPERS

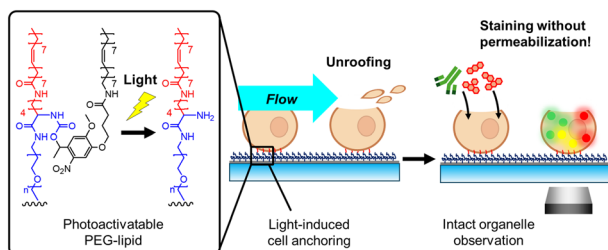
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Seamless integration of CMOS microsensors into open microfluidic systems

Raziyeh Bounik, Alex E. Landolt, Jihyun Lee, Vijay Viswam, Fernando Cardes, Mario M. Modena* and Andreas Hierlemann

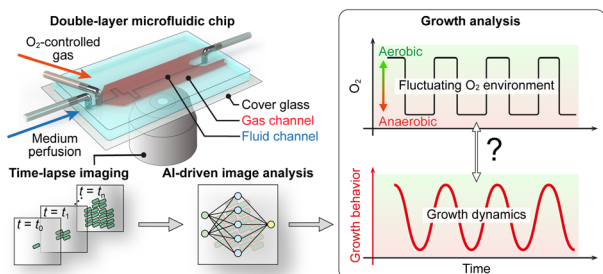
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Microfluidic cell unroofing for the *in situ* molecular analysis of organelles without membrane permeabilization

Yuki Umeda, Shinya Yamahira, Koki Nakamura, Tomoko Takagi, Tomoko Suzuki, Kae Sato, Yusuke Hirabayashi, Akimitsu Okamoto and Satoshi Yamaguchi*

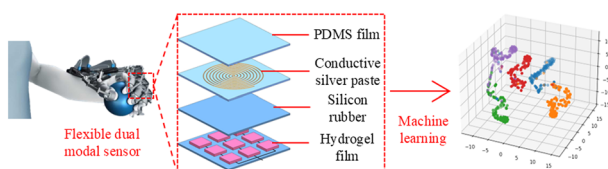
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Unveiling microbial single-cell growth dynamics under rapid periodic oxygen oscillations

Keitaro Kasahara, Johannes Seiffarth, Birgit Stute, Eric von Lieres, Thomas Drepper, Katharina Nöh and Dietrich Kohlheyer*

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Machine learning-assisted flexible dual modal sensor for multi-sensing detection and target object recognition in the grasping process

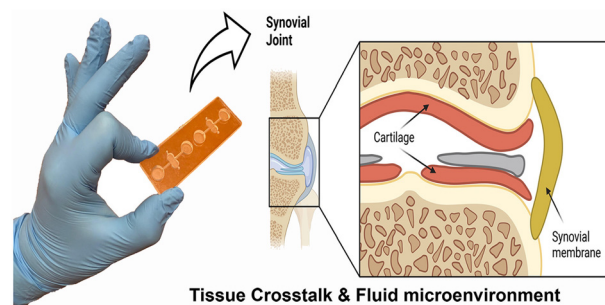
Wentao Dong,* Kaiqi Sheng, Chang Chen and Xiaopeng Qiu



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The effect of cyclic fluid perfusion on the proinflammatory tissue environment in osteoarthritis using equine joint-on-a-chip models

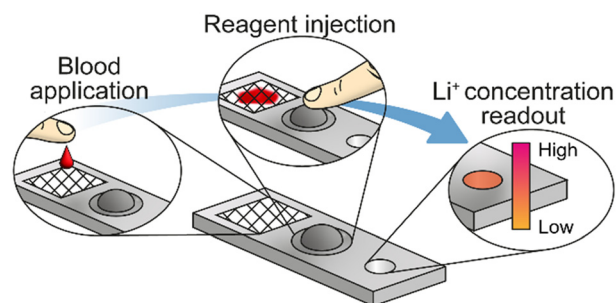
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On-chip colorimetric assay for determining serum lithium concentration from whole blood

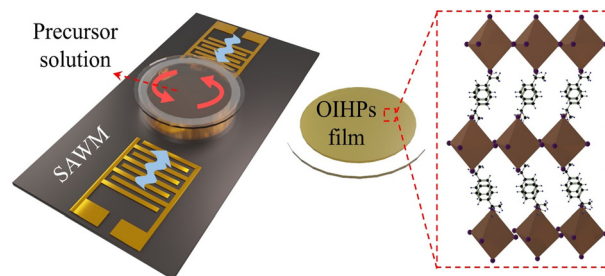
Carl Olsson, Janosch Hauser, Federico Ribet, Fredrik Wikström, André Görgens, Olof Beck, Martin Schalling, Lena Backlund and Niclas Roxhed*



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Chiral organic-inorganic hybrid perovskites synthesized using an acoustofluidic closed system

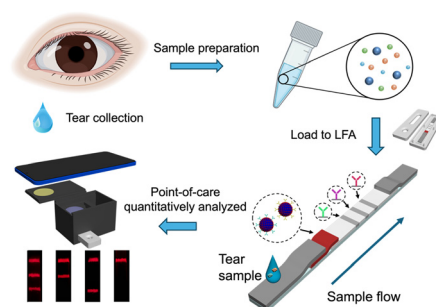
Tao Zhou, Yan Yu, Haonan Zhang, Chong Li, Ran Tao,* Fujian Ren, Chen Fu, Jingting Luo and Yongqing Fu



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Dual lateral flow assay using quantum nanobeads for quantitative detection of BDNF and TNF- α in tears

Yue Wu, Yubing Hu, Nan Jiang, Maria W. Georgi, Ali K. Yetisen* and M. Francesca Cordeiro*



CORRECTION

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Correction: Functionality integration in stereolithography 3D printed microfluidics using a “print-pause-print” strategy

Matthieu Sagot, Timothée Derkenne, Perrine Giunchi, Yohan Davit, Jean-Philippe Nougayrède, Corentin Tregouet, Vincent Rimbault, Laurent Malaquin and Bastien Venzac*

