

Lab on a Chip

Devices and applications at the micro- and nanoscale
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ISSN 1473-0197 CODEN LCAHAM 23(9) 2145-2358 (2023)



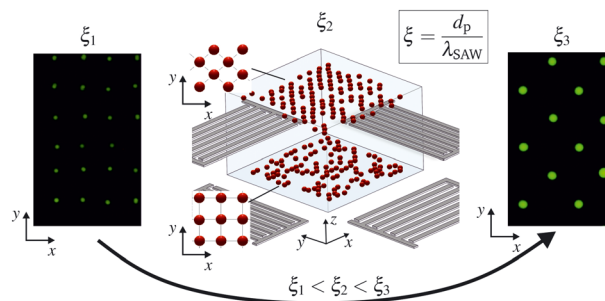
Cover
See Wenming Liu *et al.*,
pp. 2161–2174.
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COMMUNICATION

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From rectangular to diamond shape: on the three-dimensional and size-dependent transformation of patterns formed by single particles trapped in microfluidic acoustic tweezers

Zhichao Deng, Vijay V. Kondalkar, Christian Cierpka, Hagen Schmidt* and Jörg König*

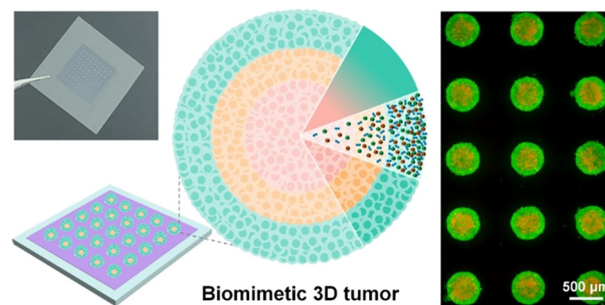


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Facile construction of a 3D tumor model with multiple biomimetic characteristics using a micropatterned chip for large-scale chemotherapy investigation

Meilin Sun, Jinwei Zhang, Wenzhu Fu, Tingting Xuanyuan and Wenming Liu*



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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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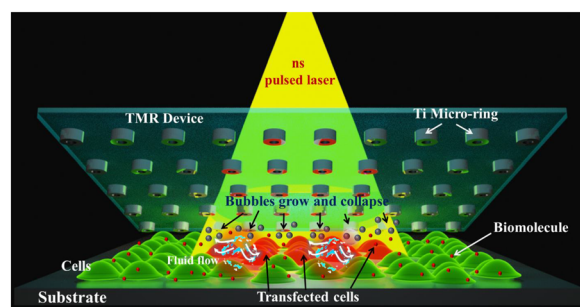
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Metallic micro-ring device for highly efficient large cargo delivery in mammalian cells using infrared light pulses

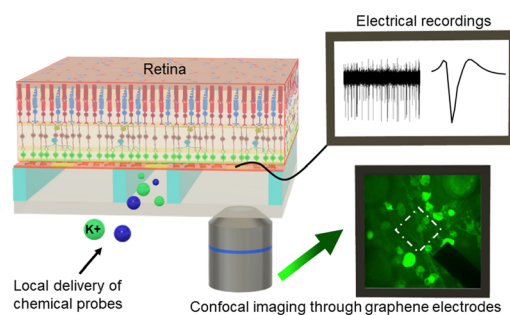
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Graphene-based microfluidic perforated microelectrode arrays for retinal electrophysiological studies

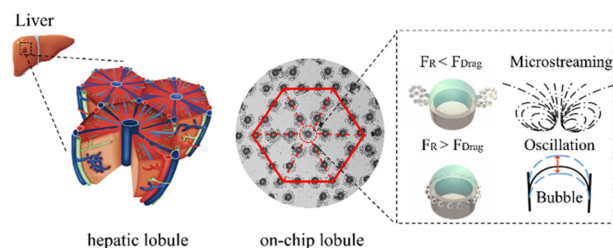
Alberto Esteban-Linares, Xiaosi Zhang, Hannah H. Lee, Michael L. Risner, Sharon M. Weiss, Ya-Qiong Xu, Edward Levine* and Deyu Li*



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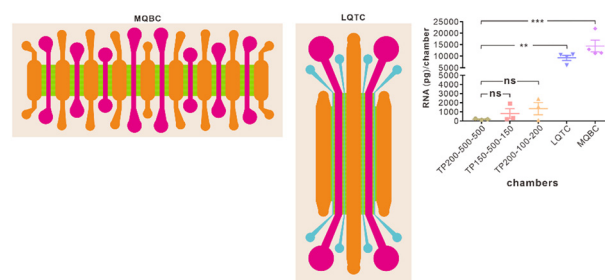
Qinghao Hu, Xuejia Hu, Yang Shi, Li Liang, Jiaomeng Zhu, Shukun Zhao, Yifan Wang, Zezheng Wu, Fubing Wang, Fuling Zhou and Yi Yang*



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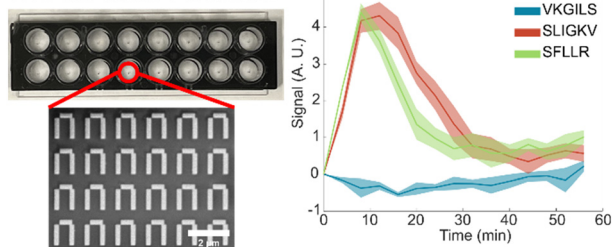
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Zhuoxuan Yang, Jun Yu, Jian Zhang, Huixue Song, Haixia Ye, Jianhui Liu, Nijia Wang, Pengfei Che, Gaoxin Long, Yunxuan Wang, Jaewon Park* and Sheng-Jian Ji*



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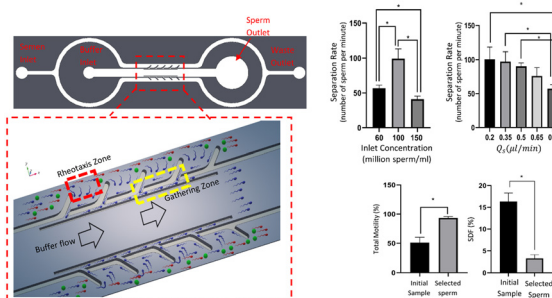
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Metasurface-enhanced infrared spectroscopy in multiwell format for real-time assaying of live cells

Steven H. Huang,* Giovanni Sartorello, Po-Ting Shen, Chengqi Xu, Olivier Elemento* and Gennady Shvets*

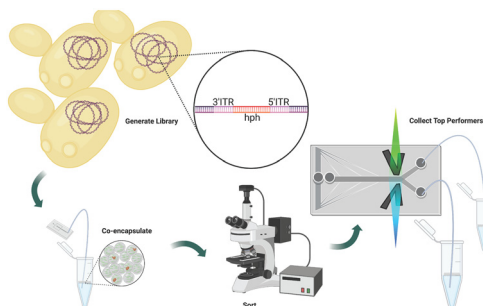
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High-DNA integrity sperm selection using rheotaxis and boundary following behavior in a microfluidic chip

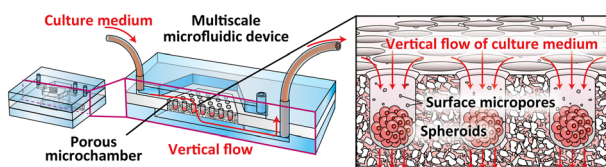
Soroush Zeaei, Mohammad Zabetian Targhi,* Iman Halvaei and Reza Nosrati*

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Temporal sorting of microdroplets can identify productivity differences of itaconic acid from libraries of *Yarrowia lipolytica*

Emily K. Bowman,* Phuong T. Nguyen Hoang, Angela R. Gordillo Sierra, Karoline M. Vieira Nogueira and Hal S. Alper

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A multiscale, vertical-flow perfusion system with integrated porous microchambers for upgrading multicellular spheroid culture

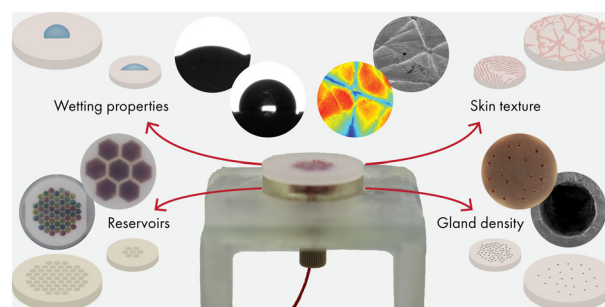
Mai Takagi, Masumi Yamada,* Rie Utoh and Minoru Seki



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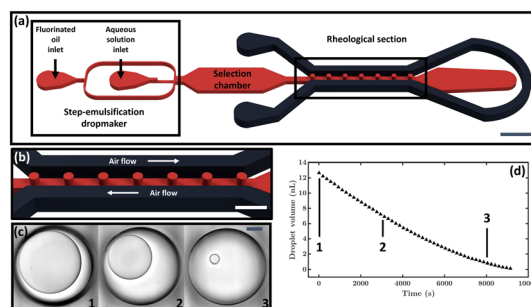
Emma J. M. Moonen, Tanveer ul Islam, Sebastiaan van Kemenade, Eduard Pelsers, Jason Heikenfeld and Jaap M. J. den Toonder*



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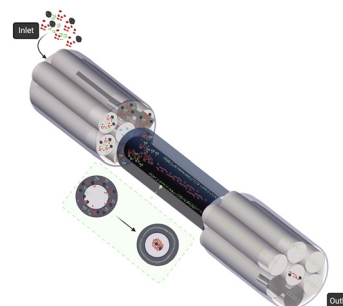
Paul Cochard-Marchewka,* Nicolas Bremond and Jean Baudry



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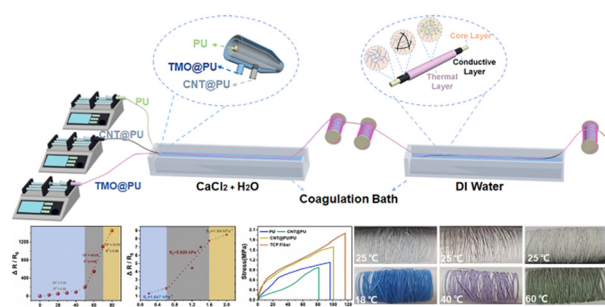
T. Kumar, A. V. Harish, S. Etcheverry, W. Margulis, F. Laurell and A. Russom*



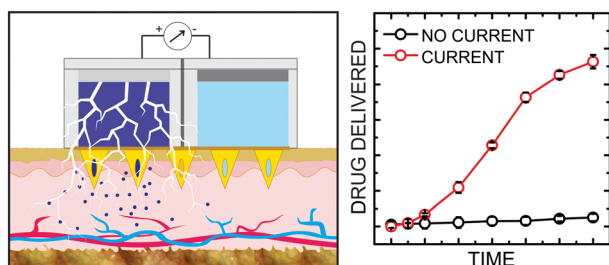
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Flexible coaxial composite fiber based on carbon nanotube and thermochromic particles for multifunctional sensor and wearable electronics

Ningle Hou, Hui Wang, Aijia Zhang, Ling Li,* Xiaoting Li* and Wenming Zhang*



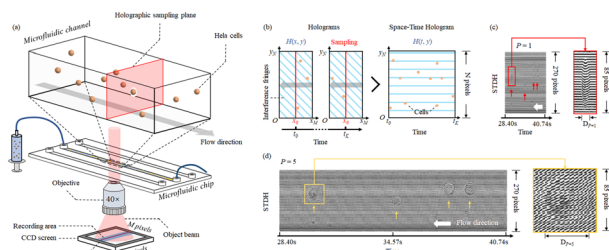
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Transdermal on-demand drug delivery based on an iontophoretic hollow microneedle array system

Usanee Detamornrat, Marc Parrilla,*
 Juan Domínguez-Robles, Qonita Kurnia Anjani,
 Eneko Larrañeta, Karolien De Wael
 and Ryan F. Donnelly*

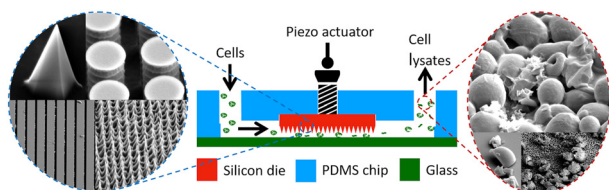
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Holographic flow scanning cytometry overcomes depth of focus limits and smartly adapts to microfluidic speed

Zhe Wang, Vittorio Bianco,* Pier Luca Maffettone
 and Pietro Ferraro

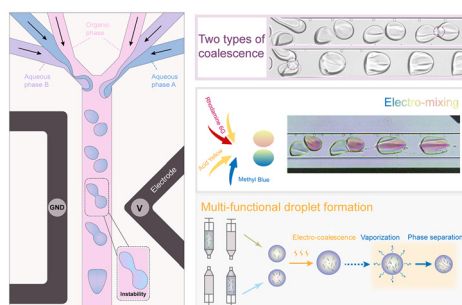
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Integration of silicon chip microstructures for in-line microbial cell lysis in soft microfluidics

Pavani Vamsi Krishna Nittala, Allison Hohreiter,
 Emilio Rosas Linhard, Ryan Dohn, Suryakant Mishra,
 Abhiteja Konda, Ralu Divan, Supratik Guha
 and Anindita Basu*

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AC-electric-field-controlled multi-component droplet coalescence at microscale

Weidong Fang, Zhi Tao, Haiwang Li, Shuai Yin,
 Tiantong Xu, Yi Huang* and Teckneng Wong



CORRECTION

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Correction: Fully-automated and field-deployable blood leukocyte separation platform using multi-dimensional double spiral (MDDS) inertial microfluidics

Hyungkook Jeon, Bakr Jundi, Kyungyong Choi, Hyunryul Ryu, Bruce D. Levy, Geunbae Lim and Jongyoon Han*

