

Lab on a Chip

Devices and applications at the micro- and nanoscale
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IN THIS ISSUE

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Cover
See Seunghyun Lee, Sung Kwon *et al.*, pp. 4309–4316.
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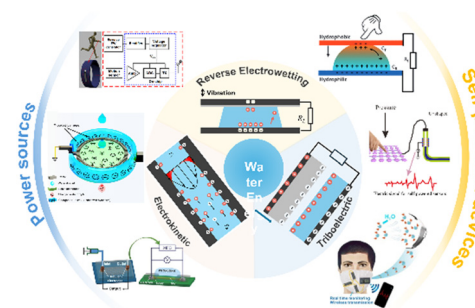
Inside cover
See Hongju Mao, Zhenhua Wu *et al.*, pp. 4317–4327.
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TUTORIAL REVIEW

4161

Interfacial electro-hydrodynamics inspired micro/nano-fluidic energy conversion: from mechanism to applications

Lingxuan Hao, Mohammed Imran Khan, Yilin Lei, Shuneng Zhou and Bei Fan*

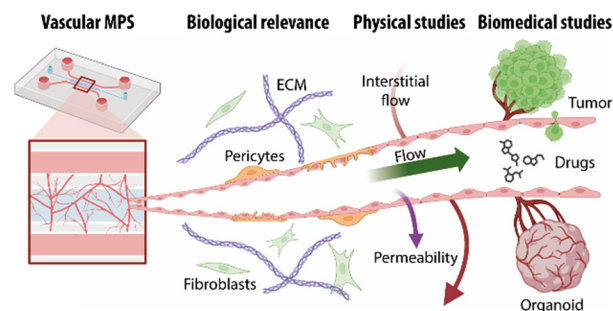


CRITICAL REVIEWS

4221

Vascular microphysiological systems (MPS): biologically relevant and potent models

Lucas Breuil, Atsuya Kitada, Sachin Yadav, Hang Zhou, Kazuya Fujimoto and Ryuji Yokokawa*





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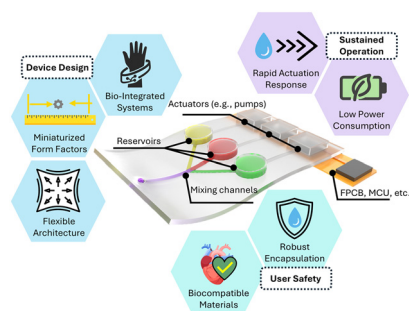


CRITICAL REVIEWS

4252

Liquid transport strategies in wearable and implantable microfluidic systems

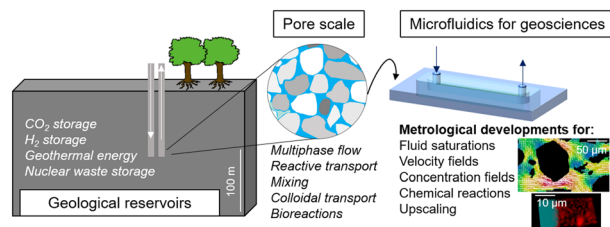
Qi Wang, Yizhen Jia and Jinghua Li*



4273

Microfluidics for geosciences: metrological developments and future challenges

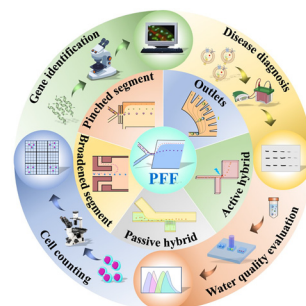
Sophie Roman,* Flore Rembert, Anthony R. Kovscek and Jenna Poonosamy*



4290

Design advances in pinched flow fractionation for enhanced particle separation in microfluidics

Qi Cui, Guizhong Tian, Tianyuan Zhou, Yigang Shen, Shilun Feng, Ming Li, Weihua Li, Yoichiro Hosokawa, Yaxiaer Yalikhun* and Tianlong Zhang*

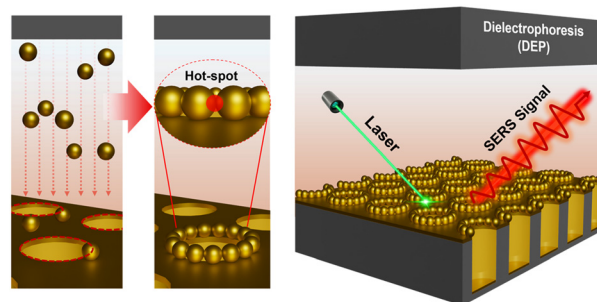


COMMUNICATION

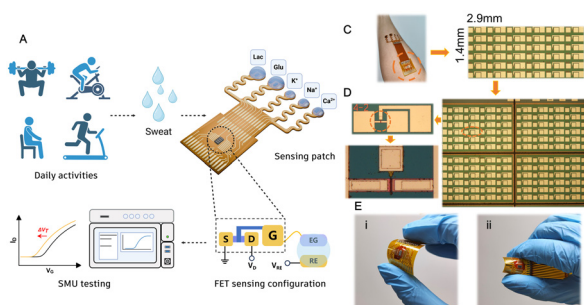
4309

Well-defined assembly of plasmonic metal nanoparticles by dielectrophoresis for highly sensitive SERS-active substrates

Yun Su Yeo, Jaejun Park, Sunghoon Yoo, Dong Hwan Nam, Hayoung Kim, Tae Jae Lee, Gyu Leem, Jae-Sung Kwon* and Seunghyun Lee*



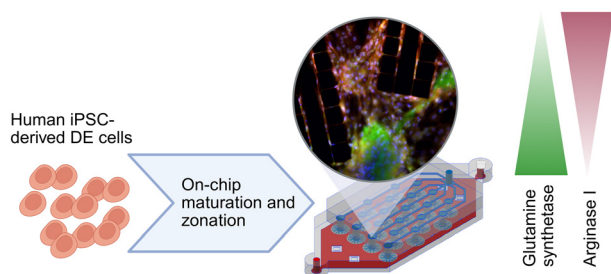
4317



A multi-channel wearable sensing patch based on gate-all-around field-effect transistors

Zhe Xing, Qiang Liu, Bo Lin, Shuang Li, Yuxin Liu, Guanyang Zhang, Wenjie Yu, Zhenhua Wu* and Hongju Mao*

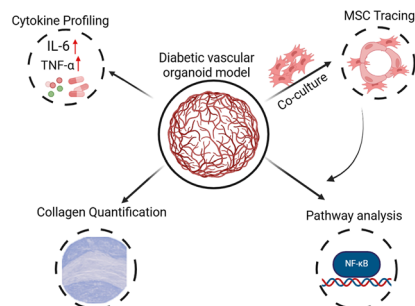
4328



An *in vivo* mimetic liver-lobule-chip (LLOC) for stem cell maturation, and zonation of hepatocyte-like cells on chip

Philip Dalsbecker, Siiri Suominen, Muhammad Asim Faridi, Reza Mahdavi, Julia Johansson, Charlotte Hamngren Blomqvist, Mattias Goksör, Katriina Aalto-Setälä, Leena E. Viiri and Caroline B. Adiels*

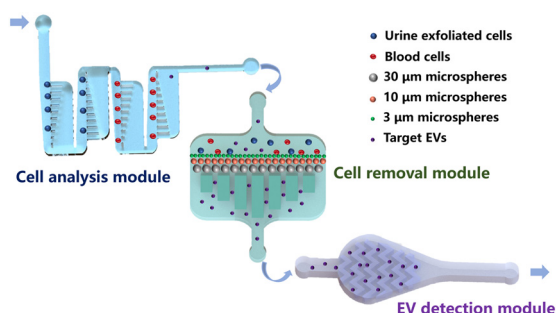
4345



Mesenchymal stem cells attenuate diabetic vascular complication by reducing irregular extracellular matrix production in human blood vessel organoids

Junhong Zeng, Jiaqi Wang, Yu Zhang, Zitian Wang, Yu Zhu, Yibo Hou, Xiangsai Li, Haiying Peng, Peter E. Lobie and Shaohua Ma*

4357



A urine detection chip for the analysis of urinary cells and extracellular vesicles for bladder cancer screening

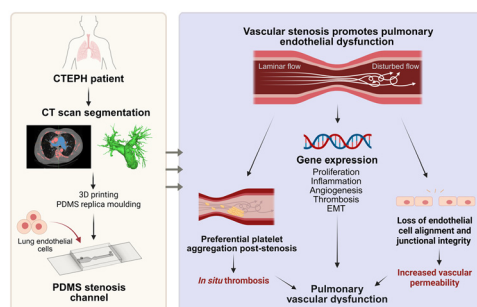
Junyuan Liu, Yuxin Qu, Xun Xu, Zixing Ye,* Jing Cheng* and Han Wang*



4369

3D modelling of pulmonary arterial stenosis and endothelial dysfunction in CTEPH

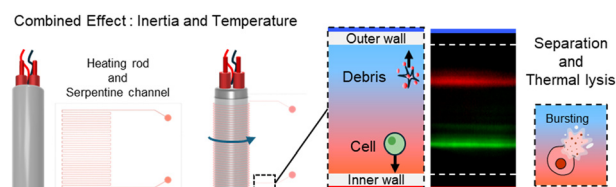
Salina Nicoleau, Ylenia Roger Valle, Olga Tura-Ceide, Chloe H. Armour, Joan Albert Barberà, Thomas. A. J. McKinnon, Deepa Gopalan and Beata Wojciak-Stothard*



4385

Micro-/nanoparticle separation combining inertial and thermophoretic effects in three-dimensional serpentine-spiral channels

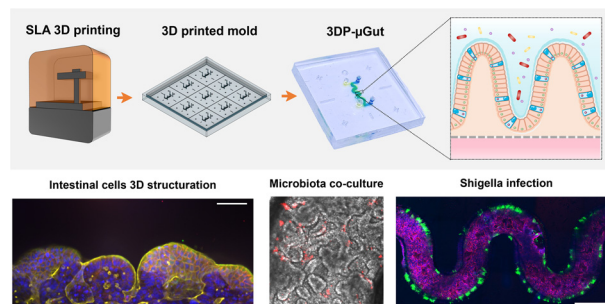
Junho Kim, Hwisu Jeon, Kyunghun Lee and Taesung Kim*



4396

Gut-on-chip methodology based on 3D-printed molds: a cost-effective and accessible approach

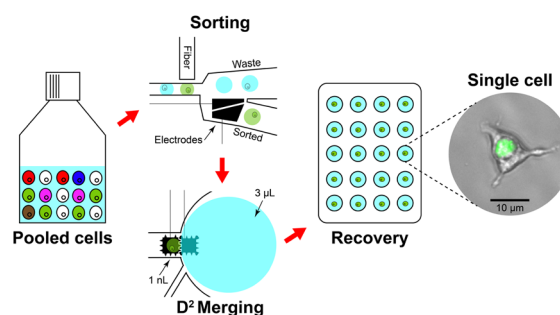
Elise Delannoy, Aurélie Burette, Sébastien Janel, Sabine Poirer, Nathalie Deboosere, Catherine Daniel and Alexandre Grassart*



4410

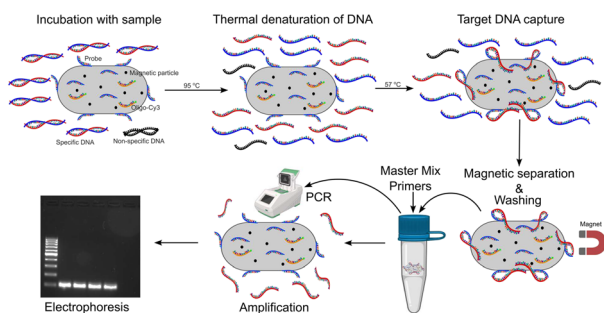
Recovery of phenotypically sorted cells using droplet-digital microfluidics

Zhiyang Deng, James M. Perry, Marian Weiss, Robert Genth, Alexis Autour, Christoph A. Merten* and Steve C. C. Shih*



PAPERS

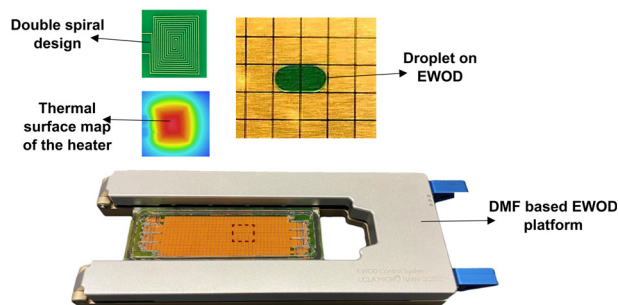
4422



Hydrogel beads for enhanced nucleic acid analysis in complex fluid matrices

Lokman Alpsoy, Stephan Tieu, Sina Dehestanizad, Thomas Brandstetter and Jürgen Rühle*

4436



Integrated heating & sensing for PCB EWOD chips on a digital microfluidics cloud platform

Mosfera A. Chowdury, Gnanesh Nagesh, Eric Hyunsung Cho, Qining Leo Wang, Bhawya, Abdulrahman Altabbaa, Lina Rose, Simon Rondeau-Gagné, Chang-Jin “CJ” Kim* and Mohammed Jalal Ahamed*

CORRECTIONS

4446

Correction: Pipette-operable microfluidic devices with hydrophobic valves in sequential dispensing with various liquid samples: multiplex disease assay by RT-LAMP

Yen-Wei Chang, Jih-Pu Lin, Shiu-Jie Ling, Yen-Chun Chen, Helene Minyi Liu and Yen-Wen Lu*

4447

Correction: Evaluating migration and cytotoxicity of tissue-resident and conventional NK cells in a 3D microphysiological system using live-cell imaging

Hyeri Choi, June Ho Shin, Hyeonsu Jo, John B. Sunwoo* and Noo Li Jeon*

