



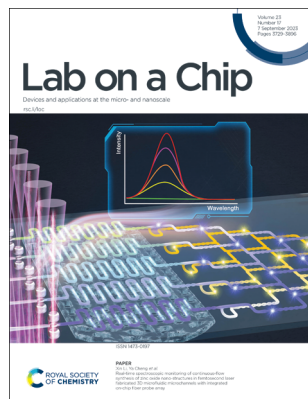
Lab on a Chip

Devices and applications at the micro- and nanoscale
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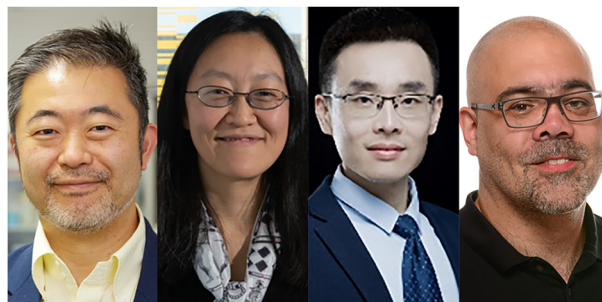
See Xin Li, Ya Cheng et al.,
pp. 3785–3793.
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EDITORIAL

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Revolutionizing microfluidics with artificial intelligence: a new dawn for lab-on-a-chip technologies

Keisuke Goda,* Hang Lu, Peng Fei and Jochen Guck

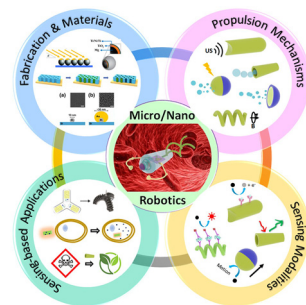


CRITICAL REVIEW

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Micro-/nanoscale robotics for chemical and biological sensing

Liuzheng Zheng, Nathan Hart and Yong Zeng*



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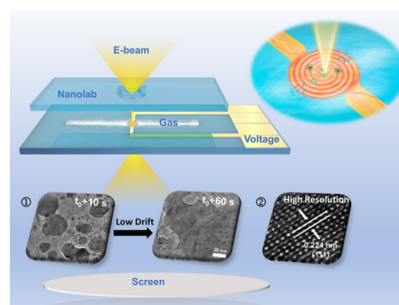


COMMUNICATIONS

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On-chip gas reaction nanolab for *in situ* TEM observation

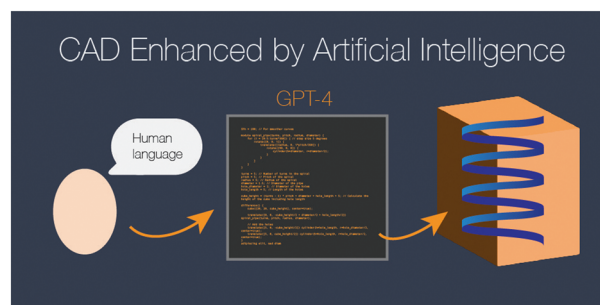
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Matt D. Nelson,* Brady L. Goenner and Bruce K. Gale

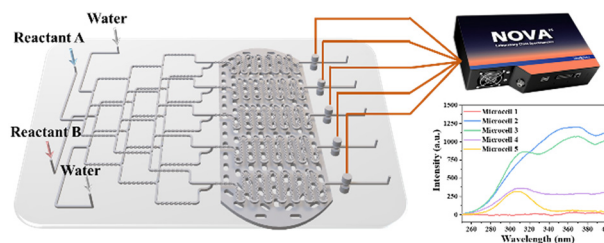


PAPERS

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Real-time spectroscopic monitoring of continuous-flow synthesis of zinc oxide nano-structures in femtosecond laser fabricated 3D microfluidic microchannels with integrated on-chip fiber probe array

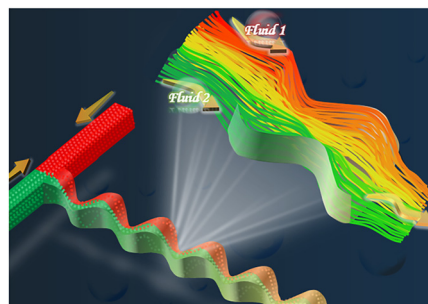
Miao Wu, Xin Li,* Di-Feng Yin, Wei Chen, Jia Qi, Ming Hu, Jian Xu and Ya Cheng*



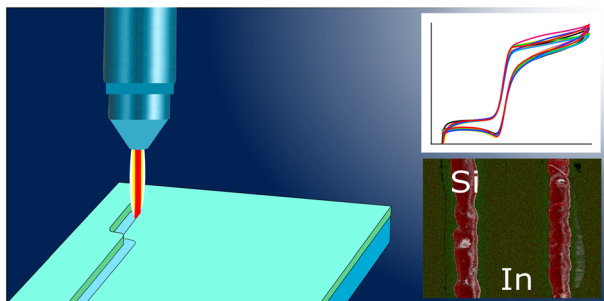
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Controlling amorphous silicon in scratching for fabricating high-performance micromixers

Tingting Chen, Licong Cui, Wang He, Renxing Liu, Chengqiang Feng, Lei Wu, Yang Wang, Huiyun Liu, Linmao Qian and Bingjun Yu*



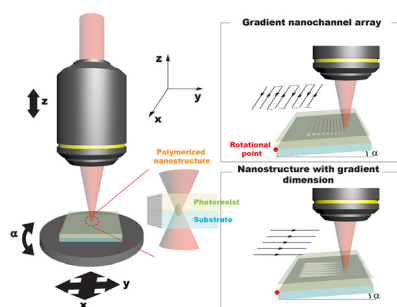
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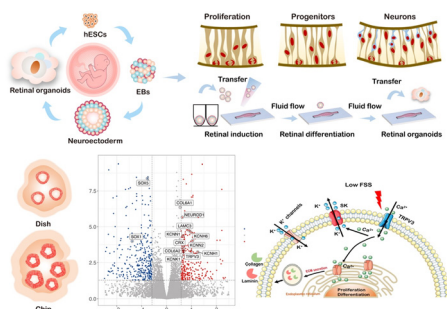
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An optically fabricated gradient nanochannel array to access the translocation dynamics of T4-phage DNA through nanoconfinement

Chen Zhang, Jiaqing Hou, Yang Zeng, Liang Dai, Wei Zhao, Guangyin Jing, Dan Sun, Yaoyu Cao* and Ce Zhang*

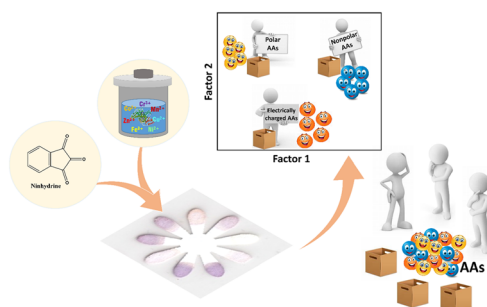
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A controllable perfusion microfluidic chip for facilitating the development of retinal ganglion cells in human retinal organoids

Jing Gong, Yu Gong, Ting Zou, Yuxiao Zeng, Cao Yang, Lingyue Mo, Jiahui Kang, Xiaotang Fan,* Haiwei Xu* and Jun Yang*

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A paper-based chemical tongue based on the charge transfer complex of ninhydrin with an array of metal-doped carbon dots discriminates natural amino acids and several of their enantiomers

Motahareh Alimohammadi, Hoda Sharifi, Javad Tashkhourian,* Mojtaba Shamsipur and Bahram Hemmateenejad*

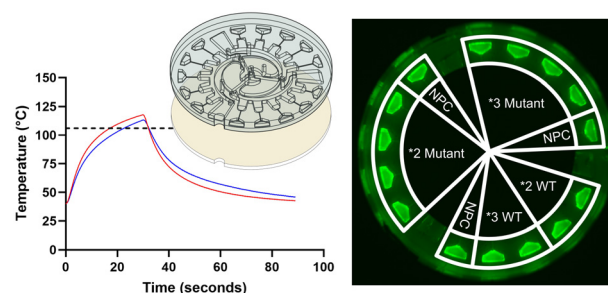


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Rapid microfluidics prototyping through variotherm desktop injection molding for multiplex diagnostics

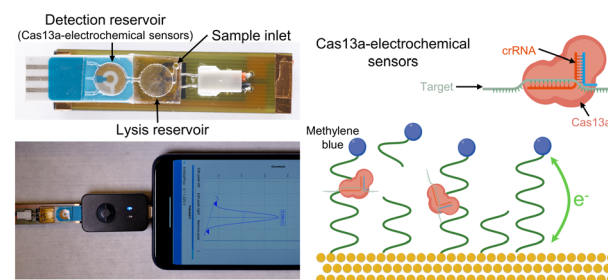
Gianmarco D. Suarez, Steevanson Bayer,
Yuki Yu Kiu Tang, Domenick A. Suarez,
Peter Pak-Hang Cheung* and Stefan Nagl*



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A point-of-care microfluidic biosensing system for rapid and ultrasensitive nucleic acid detection from clinical samples

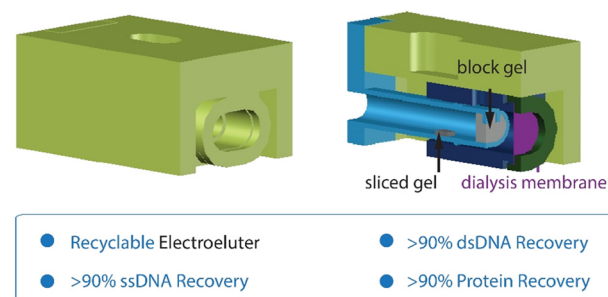
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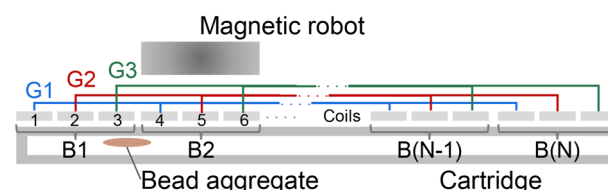
Linhan Su, Xueting Gong, Ju Zhou and Hailong Li*



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Programmable magnetic robot (ProMagBot) for automated nucleic acid extraction at the point of need

Anthony J. Politza, Tianyi Liu and Weihua Guan*



CORRECTION

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Correction: 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*

