

# Lab on a Chip

Microfluidic & nanofluidic technologies for chemistry, physics, biology, and bioengineering



## The ten most accessed articles in May

### Microvalve-actuated precise control of individual droplets in microfluidic devices

Shaojiang Zeng, Bowei Li, Xiaohou Su, Jianhua Qin and Bingcheng Lin, *Lab Chip*, 2009, **9**, 1340  
DOI: 10.1039/b821803j

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### Micromagnetic–microfluidic blood cleansing device

Chong Wing Yung, Jason Fiering, Andrew J. Mueller and Donald E. Ingber, *Lab Chip*, 2009, **9**, 1171  
DOI: 10.1039/b816986a

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### Optical redistribution of microparticles and cells between microwells

Jörg Baumgartl, Gregor M. Hannappel, David J. Stevenson, Daniel Day, Min Gu and Kishan Dholakia, *Lab Chip*, 2009, **9**, 1334  
DOI: 10.1039/b901322a

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### An air-bubble-actuated micropump for on-chip blood transportation

Sheng-Hung Chiu and Cheng-Hsien Liu, *Lab Chip*, 2009, **9**, 1524  
DOI: 10.1039/b900139e

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### Plastic masters—rigid templates for soft lithography

Salil P. Desai, Dennis M. Freeman and Joel Voldman, *Lab Chip*, 2009, **9**, 1631  
DOI: 10.1039/b822081f

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### The SmartBioPhone™, a point of care vision under development through two European projects: OPTOLABCARD and LABONFOIL

Jesus M. Ruano-López, Maria Agirregabiria, Garbiñe Olabarria, Dolores Verdoy, Dang D. Bang, Minqiang Bu, Anders Wolff, Anja Voigt, Jan A. Dziuban, Rafał Walczak and Javier Berganzo, *Lab Chip*, 2009, **9**, 1495  
DOI: 10.1039/b902354m

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### Microfluidic valves with integrated structured elastomeric membranes for reversible fluidic entrapment and *in situ* channel functionalization

Siva A. Vanapalli, Daniel Wijnperle, Albert van den Berg, Frieder Mugele and Michel H. G. Duits, *Lab Chip*, 2009, **9**, 1461  
DOI: 10.1039/b818712f

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### A fully automated immunoassay from whole blood on a disc

Beom Seok Lee, Jung-Nam Lee, Jong-Myeon Park, Jeong-Gun Lee, Suhyeon Kim, Yoon-Kyoung Cho and Christopher Ko, *Lab Chip*, 2009, **9**, 1548  
DOI: 10.1039/b820321k

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### Microreactors for radiopharmaceutical synthesis

Arkadij M. Elizarov, *Lab Chip*, 2009, **9**, 1326  
DOI: 10.1039/b820299k

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### Fluorescence-activated droplet sorting (FADS): efficient microfluidic cell sorting based on enzymatic activity

Jean-Christophe Baret, Oliver J. Miller, Valerie Taly, Michaël Ryckelynck, Abdeslam El-Harrak, Lucas Frenz, Christian Rick, Michael L. Samuels, J. Brian Hutchison, Jeremy J. Agresti, Darren R. Link, David A. Weitz and Andrew D. Griffiths, *Lab Chip*, 2009, **9**, 1850  
DOI: 10.1039/b902504a

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