Selected Publications
BABAK ZIAIE

Journal Publications


**Conference Publications**


Integrated Antenna-pH Sensor,” Proceeding of the IEEE Sensors Conf., pp. 695-698, 
Atlanta, GA, October 2007.

Alloy Joints on Flexible Substrate,” Proceedings, 14th Int. Conf. on Solid-State Sensors 

[14] Z. Ding and B. Ziaie, ” Uniform Nanoliter-sized Droplet Deposition using Fluid Motion 
in Ratched Micro-channels,” Proceedings, 14th Int. Conf. on Solid-State Sensors and 

Proceedings, 14th Int. Conf. on Solid-State Sensors and Actuators, pp. 1135-1138, Lyon, 
France, June 2007.

Micromanipulation,” Proceedings 20th. Int. IEEE Conference on 

Built-In Reservoirs for Patterning Biomolecules on 3D Topologies,” Proceedings 20th. 
Int. IEEE Conference on Microelectromechanical Systems, pp. 513-516, Kobe, Japan, 

[18] Z. Ding, W. B. Song, and B. Ziaie, “Time Multiplexed Droplet Manipulation via 

Unstable Hierarchical (Micro-Nano) Superhydrophobic Silicon Surfaces,” Proceedings of 
IMECE06 2006 ASME International Mechanical Engineering Congress and Exposition, 
November 5-10, 2006, Chicago IL, USA.

Dynamic Ferrofluid Cage Array,” Proceedings of IMECE06 2006 ASME International 
Mechanical Engineering Congress and Exposition, November 5-10, 2006, Chicago IL, 
USA

operated High-bandwidth Multi-channel Wireless Neural Recording System using 


[23] H. Kim, and B. Ziaie, “Fabrication Techniques for Improving the Performance of 
PVDF-on-Silicon Ultrasonic Transducer Array,” Proceedings of the IEEE-EMBS, New 


**Book Chapters**


**Invited Presentations**


[4] Stanford University, Mechanical Engineering Department Seminar, April 2009, "Low cost fun at microscale"


[9] University of Louisville ECE Department, March 2008, Louisville KY, “Biomedical Microsystems: Challenges and Opportunities”


**Patents**


