

OS7 : Smart Fluids & Soft Matters and Their Advanced Applications

CON-2

November 7, 2018

14:00-14:30 OS7-1

Invited

A Novel AC Electroosmotic Micropump Using T-Shaped Electrode Array

K. Yoshida, K. Asai, S.I. Eom, J.-W. Kim

14:30-14:50 OS7-2

Thermally Affected Characteristics of EHD Pump with Fluorinated Liquid

M. Nishikawara, Y. Shinagawa, H. Yanada, R. Yoneda, T. Miyakita, K. Sawada

14:50-15:10 OS7-3

Theoretical Estimation of Dielectric Constant of Electroactive Polymers

A. Suzuki, M. Miyano, R. Miura

15:10-15:30 OS7-4

Fabrication of High Aspect Ratio EA Micro-pillar Array

K. Itoh, M. Ishida, Y. Kakinuma, H. Anzai, K. Sakurai

15:40-16:10 OS7-5

Invited

Micro-Channel Flow Evaluation of Electro-Rheological Nano-Suspensions

K. Tanaka, M. Takasaki, H. Kobayashi, M. Nakano, C. Sato

16:10-16:30 OS7-6

Miniature Cubic Micro-Motor Consisting of EAP Composite Rotors and Dielectric Liquid

M. Nakano, A. Totsuka, C. Sato, M. Zrinyi

16:30-16:50 OS7-7

Polymer Composites for Magneto-Mechanical Energy Conversion: Experimental Comparison of Several Magneto-Rheological Elastomers

G. Sebald, M. Nakano, M. Lallart, G. Diguët, J.-Y. Cavaille

16:50-17:10 OS7-8

Effect of the Magnetic Saturation on the Magnetic Induction Variation in MRE Under Pure Strain

G. Diguët, J.-Y. Cavaille, G. Sebald, M. Nakano, M. Lallart

17:20-17:50 OS7-9

Invited

Applying Magnetorheology to Cure Hypertension

R. Tao, E. Du, K. Tawhid-Al-Islam, X. Xu, M.V. Autieri

17:50-18:10 OS7-10

Magnetorheological Technology for Enhancing Conductivity and Mechanical Properties of Electrolytes

G. Peng, J. Ding, T. Tian, W. Li

18:10-18:30 OS7-11

Particle Size Effects on MR Effects of MR Elastomers

T. Tian, M. Nakano, W. Li

18:30-18:50 OS7-12

Experimental Testing of a Novel Magnetorheological Fluid Rotary Damper with Variable Stiffness and Damping Capability

L. Deng, S. Sun, W. Li