

Session Title:	[Th1I] Laser 3D Printing
Session Date:	August 8 (Thu.), 2024
Session Time:	11:00-12:00
Session Room:	Room I (118)
Session Chair(s)	Dr. Hyoungwon Park (Fraunhofer Inst. for Ceramic Technologies and Systems, Germany)

[Th1I-1] 11:00-11:15

High-precision Direct Print of Biomaterials by Optical Vortex Forward Transfer

Kaito Sato, Tetsuya Fukuda, Ken-ichi Yuyama, Mitsumasa Hanaoka (Chiba Univ., Japan), Katsuhiko Miyamoto (Osaka Metropolitan Univ., Japan), and Takashige Omatsu (Chiba Univ., Japan)

[Th1I-2] 11:15-11:30

Fabrication of 3D Microfluidic Biochip using Two Photon Polymerized Mold for High-resolution Live Bioimaging

Kotaro Obata, Mirai Hanzawa, Felix Sima, Hiroyuki Kawano, Kazunari Ozasa (RIKEN Center for Advanced Photonics, Japan), Yasutaka Hanada (Hirosaki Univ., Japan), Godai Miyaji (Tokyo Univ. of Agriculture and Tech., Japan), Atsushi Miyawaki, and Koji Sugioka (RIKEN Center for Advanced Photonics, Japan)

[Th1I-3] 11:30-11:45

Optical Skyrmionic Hopfion Induced Surface Structures in Azopolymers via Photo-induced Mass Transport

Rihito Tamura (Chiba Univ., Japan), Praveen Kumar (Indian Inst. of Tech. Bhilai, India), A. Srinivasa Rao (Chiba Univ., Japan), Natalia M. Litchinitser (Duke Univ., USA), and Takashige Omatsu (Chiba Univ., Japan)

[Th1I-4] 11:45-12:00

Direct Laser Printing of Non-photosensitive Bioceramics Using Photoreduction-triggered Microbubble Generation

Hiroaki Nishiyama, Shogo Nara, and Haruka Kawabe (Yamagata Univ., Japan)