

LPM2023 Advance Program (Tentative as of June 9) 236 presentations (ORAL 186, POSTER 50)											
Count	Date	Room	Session Title	Presentation Number	Submission No.	Talk		Presentation type	Presentation title	Authors	Affiliations
						Starts	Ends				
-	June 13	Plenary Session Hall (1F Main Hall)	Opening Remark			10:00	10:10		Opening Remark by Dr. Hiroyuki Niino(AIST, Japan), General Chair, LPM2023		
1	June 13	Plenary Session Hall (1F Main Hall)	Opening Plenary session	M-PL-01-PLENARY	C000190	10:10	10:50	Plenary	Optical vortex advances laser materials processing	*Takashige Omatsu ¹	1.Chiba University
2	June 13	Plenary Session Hall (1F Main Hall)	Opening Plenary session	M-PL-02-PLENARY	C000230	10:50	11:30	Plenary	Ultra-short pulsed laser welding: glasses, crystals and metals	*Duncan Hand ¹ , Richard Carter ¹ , Adrian Dzipalski ¹ , Stephen Dondieu ¹ , Paulina Morawska ¹ , Daniel Esser ¹	1.Heriot-Watt University
3	June 13	Plenary Session Hall (1F Main Hall)	Opening Plenary session	M-PL-03-PLENARY	C000273	11:30	12:10	Plenary	Laser micro/nanoscale fabrication and imaging for supporting laser-direct-drive inertial confinement fusion	Yong Feng Lu ^{1,*} , Sean Regan ² , and David Harding ²	1. Department of Electrical and Computer Engineering, University of Nebraska, Lincoln 2. Laboratory for Laser Energetics, University of Rochester, Rochester
4	June 13	Room 1 (2F Meeting Room #3)	Session 1: Modeling and Simulation	R1-S01-1	C000012	14:00	14:20	Oral/Student	Learning the inverse solution of laser drilling model	*Zahra Kheirandish ¹ , Christian Heinig ¹ , Wolfgang Schulz ^{1,2}	1.Nonlinear Dynamics of Laser Processing, RWTH Aachen University, 2.Fraunhofer Institute for Laser Technology
5	June 13	Room 1 (2F Meeting Room #3)	Session 1: Modeling and Simulation	R1-S01-2	C000058	14:20	14:40	Oral/Student	A port-Hamiltonian system for the simulation of deformations occurring in laser-matter interaction	*Christian Heinig ¹ , Wolfgang Schulz ^{1,2}	1.RWTH Aachen University - Department NLD, 2.Fraunhofer ILT
6	June 13	Room 1 (2F Meeting Room #3)	Session 1: Modeling and Simulation	R1-S01-3	C000262	14:40	15:00	Oral	A dynamic thermo-mechanical finite element model for in-situ micro-rolling in directed laser deposition	Ravi Raj ^{1,2} , *Deepak Marla ¹ , Louis N S Chiu ² , Aijun Huang ²	1.Indian Institute of Technology, Bombay, 2.Monash University
7	June 13	Room 1 (2F Meeting Room #3)	Session 1: Modeling and Simulation	R1-S01-4	C000068	15:00	15:20	Oral/Student	Simulation of laser-induced thermo-mechanical stress in indium tin oxide with transient optical properties	*Dorian Kürschner ¹ , Goran Erik Hallum ² , Heinz Paul Huber ² , Wolfgang Schulz ¹	1.NLD, RWTH Aachen University, 2.HM, Hochschule München University of Applied Sciences
8	June 13	Room 2 (3F Multipurpose Room)	Session 2: Special Session 1-1 "Pulsed Laser Ablation in Liquids: Fundamentals and Application"	R2-S02-1-INVITED	C000240	14:00	14:30	Invited	Laser-induced phase separation of liquid mixtures from molecular levels to macroscopic changes	*Hiroshi Fukumura ^{1,2} , Johan Hofkens ¹	1.KU Leuven, 2.Tohoku University
9	June 13	Room 2 (3F Multipurpose Room)	Session 2: Special Session 1-1 "Pulsed Laser Ablation in Liquids: Fundamentals and Application"	R2-S02-2	C000056	14:30	14:50	Oral/Student	High-speed observation of ice crystallization dynamics in supercooled water triggered by laser ablation	*Hozumi Takahashi ¹ , Tatsuya Kono ² , Kosuke Sawada ² , Satoru Kumano ² , Yuka Tsuru ² , Mihoko Maruyama ^{1,3} , Masashi Yoshimura ⁴ , Daisuke Takahashi ^{5,6} , Yukio Kawamura ⁶ , Matsuo Uemura ⁶ , Seiichiro Nakabayashi ⁵ , Yusuke Mori ¹ , Yoichiro Hosokawa ² , Hiroshi Y Yoshikawa ¹	1.Graduate School of Engineering, Osaka University, 2.Graduate School of Science and Technology, Nara Institute of Science and Technology, 3.Graduate School of Life and Environmental Science, Kyoto Prefectural University, 4.Institute of Laser Engineering (ILE), Osaka University, Japan., 5.Graduate School of Science and Engineering, Saitama University, 6.Faculty of Agriculture, Iwate University
10	June 13	Room 2 (3F Multipurpose Room)	Session 2: Special Session 1-1 "Pulsed Laser Ablation in Liquids: Fundamentals and Application"	R2-S02-3	C000126	14:50	15:10	Oral/Student	How organic solvents react during laser-based synthesis of nanoparticles in liquid	*Theo Fromme ¹ , Lucie Tintrop ¹ , Sven Reichenberger ¹ , Torsten Schmidt ¹ , Stephan Barcikowski ¹	1.University Duisburg-Essen
11	June 13	Room 2 (3F Multipurpose Room)	Session 2: Special Session 1-1 "Pulsed Laser Ablation in Liquids: Fundamentals and Application"	R2-S02-4	C000100	15:10	15:30	Oral	High-speed imaging of laser ablation in supersaturated solutions towards understanding of laser-induced crystallization mechanism	*Hiroshi Yoshikawa ¹ , Yuka Tsuru ^{2,1} , Hozumi Takahasahi ¹ , Megumi Shiraiwa ³ , Katsuo Tsukamoto ^{4,1} , Takashi Onuma ⁵ , Ryutaro Shimada ⁵ , Tomohiko Tateshima ⁵ , Kazufumi Takano ⁶ , Hiroaki Adachi ⁷ , Masahi Yoshimura ¹ , Yoichiro Hosokawa ² , Seiichiro Nakabayashi ³ , Mihoko Maruyama ^{1,6} , Yusuke Mori ¹	1.Osaka University, 2.Nara Institute of Science and Technology, 3.Saitama University, 4.Tohoku University, 5.Photonic Lattice Inc., 6.Kyoto Prefectural University, 7.SOSHO Inc.
12	June 13	Room 3 (1F Meeting Room # 1)	Session 3: 3D Micro/Nano fabrication 1	R3-S03-1	C000065	14:00	14:20	Oral	Forming micro-objects using two-dimensional printing and spontaneous Origami transformations	*Yongfeng Lu ¹ , Aofei Mao ¹ , Peixun Fan ¹ , Loic Constantin ¹ , Nan Li ¹ , Xi Huang ¹ , Bai Cui ¹ , Xinwei Wang ² , Jean-Francois Silvain ³	1.University of Nebraska-Lincoln, 2.Iowa State University, 3.ICMBC/CNRS
13	June 13	Room 3 (1F Meeting Room # 1)	Session 3: 3D Micro/Nano fabrication 1	R3-S03-2	C000122	14:20	14:40	Oral	Fabrication of form birefringent structures in polymers using femtosecond Direct Laser Write technique	*Vyngantas Mizeikis ¹ , Darius Gailevicius ^{2,1} , Maciej Kretkowski ¹ , Domas Paipulas ² , Saulius Juodkazis ^{3,1}	1.Shizuoka University, 2.Vilnius University, 3.Swinburne University of Technology
14	June 13	Room 3 (1F Meeting Room # 1)	Session 3: 3D Micro/Nano fabrication 1	R3-S03-3	C000045	14:40	15:00	Oral/Student	A straightforward technique for characterizing and compensating for distortions in 3D printing by two-photon polymerization (2PP)	*Great Ikechukwu Oguguo ¹ , Laurence Bodelot ¹	1.Ecole Polytechnique, Institut Polytechnique de Paris
15	June 13	Room 3 (1F Meeting Room # 1)	Session 3: 3D Micro/Nano fabrication 1	R3-S03-4	C000097	15:00	15:20	Oral	3D fabrication of amorphous fluor polymer CYTOP by molding using two-photon polymerized micro-structures	*Kotaro Obata ¹ , Mirai Hanzawa ^{1,2} , Hiroyuki Kawano ^{1,3} , Kazunari Ozasa ¹ , Yasutaka Hanada ⁴ , Atsushi Miyawaki ^{1,3} , Godai Miyaji ² , Koji Sugioka ¹	1.RIKEN Center for Advanced Photonics (RAP), 2.Tokyo University of Agriculture and Technology, 3.RIKEN Center for Brain Science (CBS), 4.Hirosaki University
16	June 13	Room 3 (1F Meeting Room # 1)	Session 3: 3D Micro/Nano fabrication 1	R3-S03-5	C000244	15:20	15:40	Oral	3D waveguide preparation and photonics properties control by femtosecond laser direct writing	*Zhen-Nan Tian ¹ , Yi-Chun Li ¹ , Qi-Dai Chen ¹	1.Jilin University

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17	June 13	Room 3 (1F Meeting Room # 1)	Session 3: 3D Micro/Nano fabrication 1	R3-S03-6	C000200	15:40	16:00	Oral/Student	Spatially Site Selectable Laser <i>in-situ</i> Metal Reduction of Self-propelled Rotary Micromachines for Mechanical Transmission	*Dawei Wang ¹ , Chen Xin ¹ , Dong Wu ¹	1.University of Science and Technology of China
18	June 13	Room 4 (2F Meeting Room #6)	Session 4: Industrial application/Manufacture of micro devices and systems	R4-S04-1	C000134	14:00	14:20	Oral/Student	Development of 100 mJ Laser Peening System for Peening Process Monitoring	*Geonhui Lee ¹ , Sanghyun Park ¹ , Hanjin Jo ¹ , Seungjin Hwang ² , Sungyoon Lee ² , Seokjun Yu ³ , Tae Jun Yu ^{1,2}	1.Handong Global University, 2.HILLAB.Inc, 3.PAVETECH CO.Ltd
19	June 13	Room 4 (2F Meeting Room #6)	Session 4: Industrial application/Manufacture of micro devices and systems	R4-S04-2	C000131	14:20	14:40	Oral/Student	Evaluation of Fatigue and Fracture Behaviors of Hybrid Laser-Arc Welding for High Manganese Steel	*Won-chan Jeong ^{1,2} , Insung Choi ¹ , Myung-Hyun Kim ² , Kwang-Hyeon Lee ¹	1.KOREA INSTITUTE OF MACHINERY & MATERIALS (KIMM), 2.Pusan National University
20	June 13	Room 4 (2F Meeting Room #6)	Session 4: Industrial application/Manufacture of micro devices and systems	R4-S04-3	C000143	14:40	15:00	Oral/Student	Variation of wood-component ratio by laser irradiation for utilization of cellulose nanofibers	*Leo Adachi ¹ , Shuhei Yamada ¹ , Shun-ichi Ishiuchi ¹ , Hiroyuki Wada ¹	1.Tokyo Institute of Technology
21	June 13	Room 4 (2F Meeting Room #6)	Session 4: Industrial application/Manufacture of micro devices and systems	R4-S04-4	C000033	15:00	15:20	Oral	PLA-VLS grown ZnO nanowires for gas sensing applications	*Aurelian Marcu ¹ , Viorel Chihai ² , Ionut Nicolae ¹ , Razvan Mihalcea ¹ , Mihai Serbanescu ¹ , Cornel Staicu ¹ , Cristian Viespe ¹ , Marius Dumitru ¹	1.National Institute for Laser Plasma and Radiation Physics, 2.National Institute of Physical Chemistry "Ilie Murgulescu"
22	June 13	Room 4 (2F Meeting Room #6)	Session 4: Industrial application/Manufacture of micro devices and systems	R4-S04-5	C000089	15:20	15:40	Oral	Electro-optically tunable ultra-narrow linewidth microlasers from single erbium-doped lithium niobate microdisk resonators fabricated by femtosecond laser micromachining	Renhong Gao ¹ , Jianglin Guan ² , Chuntao Li ² , Botao Fu ¹ , *Jintian Lin ¹ , Ya Cheng ^{1,2}	1.Shanghai Institute of Optics and Fine Mechanics, CAS, 2.East China Normal University
23	June 13	Room 1 (2F Meeting Room #3)	Session 5: Burst ablation	R1-S05-1	C000119	16:30	16:50	Oral	Optimization of femtosecond laser processing with GHz long burst and harmonic generation.	*Marie Fleureau ¹ , Guillaume Bonamis ¹ , Eric Audouard ¹ , Eric Mottay ¹	1.Amplitude
24	June 13	Room 1 (2F Meeting Room #3)	Session 5: Burst ablation	R1-S05-2	C000197	16:50	17:10	Oral	Numerical simulation of silicon laser ablation with GHz bursts of femtosecond pulses	*Ashkan Momeni Bidzard ¹ , Koji Sugioka ¹	1.RIKEN Center for Advanced Photonics, 2-1 Hirosawa, Wako-shi, Saitama 351-0198
25	June 13	Room 1 (2F Meeting Room #3)	Session 5: Burst ablation	R1-S05-3	C000013	17:10	17:30	Oral/Student	Laser surface colouring on metals using femtosecond burst regimes	*Mantas Gaidys ¹ , Paulius Gečys ¹ , Mindaugas Gedvilas ¹	1.Center for Physical Sciences and Technology
26	June 13	Room 1 (2F Meeting Room #3)	Session 5: Burst ablation	R1-S05-4	C000178	17:30	17:50	Oral	Intra burst interaction during ultrashort pulsed Laser structuring of metals with variable temporal pulse spacing	*Benedikt Bornschlegel ¹ , Christoph Stirnat ¹ , Dennis Haasler ²	1.Chair for Laser Technology - RWTH Aachen University, 2.Fraunhofer Institute for Laser Technology ILT
27	June 13	Room 2 (3F Multipurpose Room)	Session 6: Special Session 1-6 "Pulsed Laser-Induced Surface Structuring and Manipulation"	R2-S06-1	C000155	16:30	16:50	Oral	Ultrashort-laser-induced damage and ablation of gold in water: effects of the pulse duration and water layer thickness	*Oleksandr Gatsa ¹ , Miroslava Flimelova ¹ , Alexander Bulgakov ¹	1.HiLASE Centre, Institute of Physics of the CAS, Za Radnici 828, 252 41 Dolni Brezany
28	June 13	Room 2 (3F Multipurpose Room)	Session 6: Special Session 1-6 "Pulsed Laser-Induced Surface Structuring and Manipulation"	R2-S06-2	C000016	16:50	17:10	Oral	Femtosecond Laser-Induced Periodic Surface Structures in Different Liquids	*Evgeny Gurevich ^{1,5} , Stella Maragkaki ^{2,5} , Alexander Dostovalov ⁴ , Aleksandr Kuchmizhak ³	1.Laser Center University of Applied Science Münster, 2.Institute of Electronic Structure and Laser of the Foundation for Research and Technology-Hellas (IESL-FORTH) , 3.Pacific Quantum Center, Far Eastern Federal University, 4.Institute of Automation and Electrometry of the SB RAS, 5.Ruhr-University Bochum
29	June 13	Room 2 (3F Multipurpose Room)	Session 6: Special Session 1-6 "Pulsed Laser-Induced Surface Structuring and Manipulation"	R2-S06-3	C000151	17:10	17:30	Oral/Student	Motion simulation of a microsphere activated by sequential femtosecond laser impulses	*Rintaro Yoshinaga ¹ , Ryota Kiya ¹ , Yaxiear Yalikun ¹ , Yoichiroh Hosokawa ¹	1.Nara Institute of Science and Technology
30	June 13	Room 2 (3F Multipurpose Room)	Session 6: Special Session 1-6 "Pulsed Laser-Induced Surface Structuring and Manipulation"	R2-S06-4	C000010	17:30	17:50	Oral/Student	Improving periodic uniformity of LIPSS on Si wafer using a flat-top beam for surface-enhanced Raman scattering	*Junha Choi ^{1,2} , Young-Gwan Shin ^{1,2} , Won-Seok Chang ^{1,2} , Sunghwan Chang ² , Sung-Hak Cho ^{1,2}	1.Department of Nano-Mechatronics, Korea University of Science and Technology, South Korea, 2.Department of Nano-manufacturing Technology, Nano-Convergence Manufacturing Systems Research Division, Korea Institute of Machinery and Materials, South Korea
31	June 13	Room 3 (1F Meeting Room # 1)	Session 7: 3D Micro/Nano fabrication 2	R3-S07-1	C000048	16:30	16:50	Oral	Fabrication of 3D flexible wiring with conductive polymer by laser-scanning stereolithography	*Masaru Mukai ¹ , Mai Takenouchi ¹ , Shoji Maruo ¹	1.Yokohama National University
32	June 13	Room 3 (1F Meeting Room # 1)	Session 7: 3D Micro/Nano fabrication 2	R3-S07-2	C000182	16:50	17:10	Oral	Glass molding tools fabricated with Selective Laser-induced Etching for sustainable treatment of solid-state electrolytes to improve power density of sodium-based batteries	*Christian Peters ¹ , Benjamin Geppert ¹ , Enkhtsetseg Dashjav ² , Martin Kratz ¹ , Frank Tietz ²	1.Fraunhofer ILT - Institute for Laser Technology, 2.Forschungszentrum Jülich GmbH
33	June 13	Room 3 (1F Meeting Room # 1)	Session 7: 3D Micro/Nano fabrication 2	R3-S07-3	C000216	17:10	17:30	Oral/Student	On the use of a femtosecond laser micro-processing combined with chemical etching for free-form microstructures in ultra-low expansion (ULE) glass	*Gözden Torun ¹ , Samuel Benketaf ¹ , Margarita Lesik ¹ , Pieter Vlugter ¹ , Yves Bellouard ¹	1.EPFL Galatea Lab.
34	June 13	Room 3 (1F Meeting Room # 1)	Session 7: 3D Micro/Nano fabrication 2	R3-S07-4	C000225	17:30	17:50	Oral	Femtosecond UV laser writing technique for selective etching in fused silica	*Benedikt Hermann ¹ , Yves Bellouard ¹	1.EPFL

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35	June 13	Room 3 (1F Meeting Room # 1)	Session 7: 3D Micro/Nano fabrication 2	R3-S07-5	C000241	17:50	18:10	Oral/Student	Optical far field-induced nearfield breakdown (O-FIB) for sub-20-nm ultrafast laser processing	*Zhen-Ze Li ¹ , Xin-Jing Zhao ¹ , Yi Wang ² , Xu Zhang ¹ , Yan-Hao Yu ¹ , Lei Wang ¹	1.Jilin University, 2.Tsinghua University
36	June 13	Room 4 (2F Meeting Room #6)	Session 8: Surface processing 1	R4-S08-1	C000063	16:30	16:50	Oral	Femtosecond laser polishing of additively manufactured surfaces	*Yongfeng Lu ¹ , Nan Li ¹ , Peixun Fan ¹ , Qiuchi Zhu ¹ , Bai Cui ¹ , Jean-Francois Silvain ²	1.University of Nebraska-Lincoln, 2.ICMCB/CNRS
37	June 13	Room 4 (2F Meeting Room #6)	Session 8: Surface processing 1	R4-S08-2	C000077	16:50	17:10	Oral/Student	Full control of surface roughness when engraving transparent materials using femtosecond laser ablation	*Evaldas Kazuokas ¹ , Simas Butkus ^{1,2} , Vytautas Jukna ¹ , Domas Paipulas ¹ , Valdas Sirutkaitis ¹	1.Laser Research Center, Faculty of Physics, Vilnius University, Sauletekio Ave. 10, LT-10223 Vilnius, Lithuania, 2. Light Conversion, Keramiku 2b, LT-10233 Vilnius, Lithuania
38	June 13	Room 4 (2F Meeting Room #6)	Session 8: Surface processing 1	R4-S08-3	C000193	17:10	17:30	Oral	Selective laser paint stripping technology with composite material	*Satoshi Gyobu ¹ , Takumi Sato ¹ , Saneyuki Goya ¹ , Toshikatsu Nohara ¹	1.Mitsubishi Heavy Industries, Ltd.
39	June 13	Room 4 (2F Meeting Room #6)	Session 8: Surface processing 1	R4-S08-4	C000158	17:30	17:50	Oral	Pulse duration dependence of infrared laser-induced secondary electron yield reduction of copper surfaces	*Pierre Lorenz ¹ , Elena Bez ^{2,3} , Marcel Himmerlich ² , Martin Ehrhardt ¹ , Mauro Taborelli ² , Klaus Zimmer ¹	1.IOM Leipzig, 2.CERN, 3.Leipzig University
40	June 13	Room 4 (2F Meeting Room #6)	Session 8: Surface processing 1	R4-S08-5	C000259	17:50	18:10	Oral/Student	A study on the enhancement of chemical and mechanical properties of low carbon steel surface cleaned with nanosecond pulsed laser	*Vishnu Narayanan S ¹ , Almgid W.G. Ali ¹ , Ramesh Kumar Singh ¹ , Deepak Marla ¹	1.Indian Institute of Technology Bombay
41	June 14	Room 1 (2F Meeting Room #3)	Session 9: Fundamental aspects	R1-S09-1	C000018	9:20	9:40	Oral	Understanding the Shortcomings of Pulsed Laser Deposition by Ablation Plume Analysis	*Thomas Lippert ¹	1.Paul Scherrer Institut
42	June 14	Room 1 (2F Meeting Room #3)	Session 9: Fundamental aspects	R1-S09-2	C000118	09:40	10:00	Oral	Experimental study of nonlinear ionization of transparent dielectrics exposed to single-shot ultrashort laser excitation	*Olivier UTEZA ¹ , Thibault GENIEYS ¹ , Julia FERRER-ORTAS ¹ , Alok PANDEY ¹ , Nicolas SANNER ¹	1.LP3-CNRS-AMU
43	June 14	Room 1 (2F Meeting Room #3)	Session 9: Fundamental aspects	R1-S09-3	C000246	10:00	10:20	Oral	Ultrafast charge dynamics during femtosecond laser ablation revealed by THz emission spectroscopy	*Shuntaro Tani ¹ , Yohei Kobayashi ¹	1.The University of Tokyo
44	June 14	Room 1 (2F Meeting Room #3)	Session 9: Fundamental aspects	R1-S09-4	C000073	10:20	10:40	Oral	Transient thermodynamic pathways in ultrafast volume laser nanostructuring	Huu Dat Nguyen ¹ , Sergio Sao Joao ² , Ciro D'Amico ¹ , Guillaume Kermouche ² , *Razvan Stoian ¹	1.Laboratoire Hubert Curien, UMR 5516 CNRS, Université Jean Monnet, 42000 Saint Etienne, France, 2.Laboratoire George Friedel, UMR 5307 CNRS, Ecole des Mines de Saint-Etienne, 42000 Saint Etienne, France
45	June 14	Room 1 (2F Meeting Room #3)	Session 9: Fundamental aspects	R1-S09-5	C000186	10:40	11:00	Oral/Student	4H-SiC surface modified by green femtosecond laser at low fluence	*Yi-Hsien Liu ¹ , Chung-Wei Cheng ¹	1.National Yang Ming Chiao Tung University
46	June 14	Room 2 (3F Multipurpose Room)	Session 10: Special Session 1-2 "Pulsed Laser Synthesis and Processing: Oxide Nanoparticles"	R2-S10-1	C000169	09:40	10:00	Oral	Pulsed Laser Defect Engineering and Diffusion enhancement in Liquids: The Next Step of Laser-based Colloid Processing Technologies	*Sven Reichenberger ¹ , Swen Zerebecki ¹ , Stephan Barcikowski ¹	1.Technical Chemistry I and Center for Nanointegration Duisburg-Essen (CENIDE), Research Center for Nano Energy Technology (NETZ), Duisburg, 47057, University of Duisburg-Essen
47	June 14	Room 2 (3F Multipurpose Room)	Session 10: Special Session 1-2 "Pulsed Laser Synthesis and Processing: Oxide Nanoparticles"	R2-S10-2	C000138	10:00	10:20	Oral/Student	Preparation of CeO ₂ /GO Nano-complex with Laser Ablation in Liquid Method Applied in Sensing Electrode	*MENGQI SHI ¹ , YOSHITAKA KITAMOTO ¹ , HIROYUKI WADA ¹	1.Tokyo Institute of Technology
48	June 14	Room 2 (3F Multipurpose Room)	Session 10: Special Session 1-2 "Pulsed Laser Synthesis and Processing: Oxide Nanoparticles"	R2-S10-3	C000152	10:20	10:40	Oral	Preparation of porous calcium oxide using laser ablation in liquids	*Takeshi Tsuji ¹ , Takahiro Itamochi ¹ , Daiki Atarashi ¹ , Yoshie Ishikawa ²	1.Shimane University, 2.AIST
49	June 14	Room 2 (3F Multipurpose Room)	Session 10: Special Session 1-2 "Pulsed Laser Synthesis and Processing: Oxide Nanoparticles"	R2-S10-4	C000120	10:40	11:00	Oral/Student	Adsorption behavior of laser-generated, surfactant-free metallic nanoparticles under electrostatic repulsion: the role of defects	*Manuel Matten ¹ , Kinran Lau ¹ , Thomas Lange ² , Brian Giera ³ , Sven Reichenberger ¹ , Stephan Barcikowski ¹	1.University Duisburg-Essen, 2.Hydrogen and fuel cell center (ZBT), 3.Lawrence Livermore National Laboratory
50	June 14	Room 3 (1F Meeting Room # 1)	Session 11: Micro-machining	R3-S11-1	C000015	09:40	10:00	Oral	Comparison of laser inscribed micropillars on flat versus tilted substrates	*Damon G. K. Aboud ¹ , Andreas Gruner ² , Anne-Marie Kietzig ¹	1.McGill University, 2.Laserinstitut Hochschule Mittweida
51	June 14	Room 3 (1F Meeting Room # 1)	Session 11: Micro-machining	R3-S11-2	C000046	10:00	10:20	Oral/Student	Fundamental Study on High-quality Micro-shape Fabrication on Monocrystalline Diamond by Nanosecond Pulsed Laser	*Kaichi Kawata ¹ , Tsubasa Okubo ¹ , Yasuhiro Okamoto ¹ , Akira Okada ¹	1.Okayama University
52	June 14	Room 3 (1F Meeting Room # 1)	Session 11: Micro-machining	R3-S11-3	C000272	10:20	10:40	Oral/Student	Laser Color Marking of Stainless Steel – A Study on Colour Variation with Multiple Scans	Ankit Awasthi ^{1*} , Deepak Marla ¹	1. Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai
53	June 14	Room 3 (1F Meeting Room # 1)	Session 11: Micro-machining	R3-S11-4	C000257	10:40	11:00	Oral/Student	Laser ablation of ultrathin SiNx coated Si wafer – evaluation of process performance for PERC solar cell application	*Pinalkumar Gopaldas Rana ¹ , Anil Kottantharayil ² , Deepak Marla ¹	1.Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai-400076, 2.Department of Electrical Engineering, Indian Institute of Technology Bombay, Mumbai

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54	June 14	Room 4 (2F Meeting Room #6)	Session 12: Surface processing 2	R4-S12-1	C000123	09:20	09:40	Oral	Regular LIPSS Patterns Generated on Silicon with Femtosecond Laser Pulses	*Yoann Levy ¹ , Juraj Sládek ^{1, 2} , Thibault J.-Y. Derrien ¹ , Nadezhda M. Bulgakova ¹	1.HiLASE Centre, FZU - Institute of Physics of the Czech Academy of Sciences, 2.Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering
55	June 14	Room 4 (2F Meeting Room #6)	Session 12: Surface processing 2	R4-S12-2	C000173	09:40	10:00	Oral	Free-standing thin film processing by femtosecond laser	*Saulius Juodkazis ^{1, 3} , Haoran Mu ¹ , Daniel Smith ¹ , Soon Hock Ng ¹ , Tomas Katkus ¹ , Daniel Moraru ² , Vyngantas Mizeikis ²	1.Swinburne Univ. Technol., 2.Shizuoka Univ., 3.WRH Program International Research Frontiers Initiative (IRFI), Tokyo Institute of Technology
56	June 14	Room 4 (2F Meeting Room #6)	Session 12: Surface processing 2	R4-S12-3	C000161	10:00	10:20	Oral	Bigger, faster, ...smaller?! Development of system technology for direct laser interference patterning at the forefront of industrial needs	*Christoph Zwahr ¹ , Nicolas Serey ¹ , Frederic Schell ¹ , Lukas Nitschke ¹ , Tobias Steege ¹	1.Fraunhofer IWS
57	June 14	Room 4 (2F Meeting Room #6)	Session 12: Surface processing 2	R4-S12-4	C000264	10:20	10:40	Oral	Enhancing laser processing thanks to beam-shaping based on Multi-Plane Light Conversion technology	Adeline Orieux ¹ , Ivan Gusachenko ¹ , *Gwenn Pallier ¹ , Guillaume Labroille ¹	1.Cailabs
58	June 14	Room 4 (2F Meeting Room #6)	Session 12: Surface processing 2	R4-S12-5	C000191	10:40	11:00	Oral	Ultrashort pulse laser surface texturing for injection mold functionalization	*Andreas Gruner ¹ , Joerg Schille ¹ , Udo Loeschner ¹	1.Hochschule Mittweida
59	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-1	C000050	11:20	11:22	Poster/Student	Processing of biomimetic hydrophobic micro-textures using femtosecond-pulsed laser	*Yuki Oshima ¹ , Ren Goto ¹ , Masaki Yamaguchi ¹	1.Shinshu University
60	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-2	C000091	11:22	11:24	Poster/Student	Photoinduced structural change inside MgO single crystal	*Taira Sakurai ¹ , Yasuhiko Shimotsuma ¹ , Masahiro Shimizu ¹ , Kiyotaka Miura ¹	1.Kyoto University
61	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-3	C000154	11:24	11:26	Poster	Nano-spheroid protrusion on YAG surface formed by single ultrafast Bessel pulse	*Jing Lv ¹ , Tianqu chen ¹ , Guodong Zhang ¹ , Guanghua Cheng ¹	1.Northwestern Polytechnical University
62	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-4	C000185	11:26	11:28	Poster/Student	Investigation on luminescence near focal point during ultrafast laser microwelding of glass substrates	*Junpei Fujiwara ¹ , Hikari Okuno ¹ , Taiga Sasahara ¹ , Takao Ota ¹ , Wataru Watanabe ² , Takayuki Tamaki ¹	1.National Institute of Technology (KOSEN), Nara College., 2.Ritsumeikan University
63	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-5	C000054	11:28	11:30	Poster/Student	Nano periodic structure fabrication on transparent material by laser-induced plasma-assisted ablation (LIPAA)	*Muma Miura ¹ , Yasutaka Hanada ¹ , Kotaro Obata ² , Koji Sugioka ²	1.Hirosaki University, 2.RIKEN
64	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-6	C000103	11:30	11:32	Poster/Student	Formation of a single nanogroove on ZnO surface by femtosecond laser pulse	*Junji Morimoto ^{1, 2} , Shi Bai ³ , Kotaro Obata ¹ , Godai Miyaji ² , Koji Sugioka ¹	1.RIKEN Center for Advanced Photonics (RAP), 2.Tokyo University of Agriculture and Technology, 3.Hebei University of Science and Technology
65	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-7	C000031	11:32	11:34	Poster/Student	Laser-induced surface enhanced Raman scattering performance of silver films	*I-Chia Chen ¹ , Yu-Ming Ding ¹ , Bing-Yu Wu ¹ , Hsuan-Kai Lin ¹ , Jia-Ren Lee ²	1.Department of Materials Engineering,National Pingtung University of Science and Technology, 2.Department of Physics,National Kaohsiung Normal University
66	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-8	C000044	11:34	11:36	Poster	Effect of laser irradiation on TiO ₂ particles and their property of sonodynamic therapy	Yu Gito ¹ , Yoshitaka Kitamoto ¹ , *Hiroyuki Wada ¹	1.Tokyo Institute of Technology
67	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-9	C000189	11:36	11:38	Poster/Student	A Study on the Improvement of Direct Writing Precision of Copper MOD Ink Using Laser	*BOSEOK KANG ¹ , Bo sung Shin ^{1, 2}	1. Department of Cogno-Mechatronics Engineering, Pusan National University 2. Department of Optics and Mechatronics Engineering, Pusan National University
68	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-10	C000028	11:38	11:40	Poster/Student	Effect of laser treatment on surface properties of CoCrMo alloys	*Chin-Hung Wu ¹ , Po-Wei Chang ¹ , Hsuan-Kai Lin ¹ , Ting-Yuan Li ^{1, 2} , Yuan-Jen Chang ³	1.National Pingtung University of Science and Technology, 2.National Yang Ming Chiao Tung University, 3.National Yunlin University of Science and Technology
69	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-11	C000051	11:40	11:42	Poster/Student	Femtosecond direct laser interference patterning of nickel electrodes for improving electrochemical properties	*Fabian Ränke ¹ , Stephan Moghtaderifard ¹ , Leonard Günther ¹ , Robert Baumann ¹ , Lis Zschach ¹ , Bogdan Voisiat ¹ , Andrés Fabian Lasagni ^{1, 2}	1.Institute for Manufacturing Technology, Technische Universität Dresden, 2.Fraunhofer Institute for Material and Beam Technology IWS
70	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-12	C000137	11:42	11:44	Poster/Student	Effects of Multi-Spot Laser Irradiation on Laser Peening	*Megat Adam Bin Megat Harris ¹ , Taiki Nakayama ¹ , Ryota Kasumi ¹ , Miho Tsuyama ¹ , Manabu Heya ² , Hitoshi Nakano ¹	1.Kindai University, 2.Osaka-sangyo University
71	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-13	C000140	11:44	11:46	Poster/Student	Laser Peening with silicone rubber as a plasma confinement layer under vacuum	*Mai Zhang ¹ , Yang Zhang ¹ , Miho Tsuyama ¹ , Manabe Heya ² , Hitoshi Nakano ¹	1. Faculty of Science and Engineering, Kindai University 2. Faculty of Engineering, Osaka Sangyo University
72	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-14	C000172	11:46	11:48	Poster	Characterization of the WS ₂ thin films using pulsed laser surface modification	Rou-Jhen Chen ¹ , Yi-Cheng Lin ¹ , Shu-Ju Tsai ¹ , Shih-Feng Tseng ² , *Wen-Tse Hsiao ¹	1.Taiwan Instrument Research Institute, National Applied Research Laboratories , 2.Department of Mechanical Engineering, National Taipei University of Technology

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73	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-15	C000222	11:48	11:50	Poster/Student	Reaction Characteristics of Hydrogen Sensors Using Laser-induced Graphene	*Jinsu Kim ¹	1.Pusan National University
74	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-16	C000104	11:50	11:52	Poster/Student	3D CYTOP biochips fabricated using two-photon polymerized mold for high-resolution bioimaging	*Mirai Hanzawa ^{1,2} , Kotaro Obata ¹ , Hiroyuki Kawano ^{1,3} , Kazunari Ozasa ¹ , Yasutaka Hanada ⁴ , Atsushi Miyawaki ^{1,3} , Godai Miyaji ² , Koji Sugioka ¹	1.RIKEN Center for Advanced Photonics (RAP), 2.Tokyo University of Agriculture and Technology, 3.RIKEN Center for Brain Science (CBS), 4.Hirosaki University
75	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-17	C000025	11:52	11:54	Poster	Rapid micrometer ITO electrode patterning by laser-direct writing using modest commercial fibre laser scribe	Ting-Wei Guo ^{1,2} , *Ji-Yen Cheng ^{1,2}	1.Academia Sinica Taiwan, 2.National Yang-Ming Chao-Tung University
76	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-18	C000227	11:54	11:56	Poster/Student	Femtosecond laser direct writing using SiC nanoparticle ink containing finer nanoparticles	*KHALIUN AMARSAIKHAN ¹ , Tatsuru Kawabori ¹ , Masashi Watanabe ² , Yoshiyuki Imai ² , Shohei Ueta ² , Xing L. Yan ² , Mizue Mizoshiri ¹	1.Nagaoka University of Technology, 2.Japan Atomic Energy Agency
77	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-19	C000059	11:56	11:58	Poster	DCB tests of carbon-fiber-reinforced thermoplastic composites by laser assisted joining	*Insung Choi ¹ , Hyung Doh Roh ² , Kwang-Hyeon Lee ¹ , Youngseok Oh ²	1.Korea Institute of Machinery and Materials, 2.Korea Institute of Materials Science
78	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-20	C000096	11:58	12:00	Poster/Student	Femtosecond Laser Processing of Kidney Stones	*Yudai Yoshimura ¹ , Shuzo Hamamoto ² , Mihoko Maruyama ^{1,3} , Masashi Yoshimura ⁴ , Shigeyuki Usami ¹ , Masayuki Imanishi ¹ , Rie Tajiri ⁵ , Yutaro Tanaka ² , Atsushi Okada ² , Kazufumi Takano ³ , Takahiro Yasui ² , Yusuke Mori ¹ , Hiroshi Y Yoshikawa ¹	1.Grad. Sch. of Eng., Osaka Univ., 2. Grad. Sch. of Med., Nagoya City Univ., 3.Grad. Sch. of Life and Environ. Sci., Kyoto pref. Univ., 4.ILE, Osaka Univ., 5.Tajiri Thin Section Laboratory
79	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-21	C000162	12:00	12:02	Poster	Ablation analysis and near threshold phenomena of reactive atmospheric pressure plasma jet modified glasses	Robert Heinke ^{1,2} , Martin Ehrhardt ¹ , *Pierre Lorenz ¹ , Thomas Arnold ^{1,2} , Klaus Zimmer ¹	1.IOM Leipzig, 2.TU DRESDEN
80	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-22	C000082	12:02	12:04	Poster	Processing of various glass materials by short pulse CO ₂ laser with controllable pulse tail	*Kazuyuki Uno ¹ , Yasushi Kodama ^{1,2} , Kazuyuki Yoneya ²	1.University of Yamanashi, 2.Seidensha Electronics
81	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-23	C000159	12:04	12:06	Poster/Student	Automated Laser Percussion Drilling with Real-time Feedback Control by Artificial Neural Networks	*Yang-Hung Hsiao ¹ , Siva Durga Manikanta Gurajala ¹ , Yuan-Jen Chang ¹ , Chau-Shing Wang ²	1. National Yunlin University of Science and Technology, 2.National Changhua University of Education
82	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-24	C000055	12:06	12:08	Poster	Sensor Fusion for Position Estimation in Robot-based Laser Materials Processing	*Philipp Walderich ¹ , Leon Michel Gorissen ¹ , Thomas Kaster ¹ , Christian Hinke ¹	1.Chair for Laser Technology (LLT) of RWTH Aachen University
83	June 14	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 1	P1-25	C000080	12:08	12:10	Poster/Student	Time-resolved stress measurement by photoelastic imaging incorporated with Mach-Zehnder interferometry	*Sabrina Claudia Crepaldi ¹ , Yusuke Ito ¹ , Junya Hattori ¹ , Hiroshi Jo ¹ , Guoqi Ren ¹ , Naohiko Sugita ¹	1.University of Tokyo
-	June 14	Small Hall	Poster Session 1		-	12:20	14:00	Poster Presentations	All presenters, who are listed in the short presentation on June 14, have to stand at your poster board wearing blue ribbon during 12:20-14:00.		
84	June 14	Room 1 (2F Meeting Room #3)	Session 13: Ultra-short pulse laser processing 1 (Beam shaping)	R1-S13-1	C000171	14:10	14:30	Oral	Comparison of different drilling processes for multibeam optical systems	*Philipp Bremer ¹ , Dennis Haasler ¹	1.Fraunhofer Institute for Laser Technology ILT
85	June 14	Room 1 (2F Meeting Room #3)	Session 13: Ultra-short pulse laser processing 1 (Beam shaping)	R1-S13-2	C000174	14:30	14:50	Oral	First-time right ablation with flexible multibeams generated by a high-power spatial light modulator	*Martin Thomas Kratz ¹ , Moritz Kröger ² , Benedikt Bornschlegel ² , Martin Reininghaus ¹	1.Fraunhofer ILT - Institute for Laser Technology, 2.RWTH Aachen University LLT - Chair for Laser Technology
86	June 14	Room 1 (2F Meeting Room #3)	Session 13: Ultra-short pulse laser processing 1 (Beam shaping)	R1-S13-3	C000147	14:50	15:10	Oral/Student	Computer-generated hologram server for holographic optical engine	*Takefumi Kosugi ¹ , Satoshi Hasegawa ¹ , Yoshio Hayasaki ¹	1.Utsunomiya University CORE
87	June 14	Room 1 (2F Meeting Room #3)	Session 13: Ultra-short pulse laser processing 1 (Beam shaping)	R1-S13-4	C000203	15:10	15:30	Oral/Student	Holographic laser processing machine with a rotating stage and in-process measurement system	*Yuta Nakamura ¹ , Satoshi Hasegawa ¹ , Yoshio Hayasaki ¹	1.Utsunomiya University
88	June 14	Room 1 (2F Meeting Room #3)	Session 13: Ultra-short pulse laser processing 1 (Beam shaping)	R1-S13-5	C000243	15:30	15:50	Oral/Student	The cross-section control of ultra-fast laser direct written waveguides and multifunctional devices	*Ze-Zheng Li ¹ , Zhong-Tian Li ¹ , Yan Wang ² , Zhen-Nan Tian ¹ , Qi-Dai Chen ¹	1.Jilin University, 2.Changchun University of Technology
89	June 14	Room 2 (3F Multipurpose Room)	Session 14: Special Session 1-3 "Pulsed Laser Synthesis and Processing: Alloy Nanoparticles"	R2-S14-1-INVITED	C000070	14:10	14:40	Invited	Characteristics of multi-metallic (COMM) alloy nanoparticles formed by laser-induced nucleation method	*Takahiro Nakamura ¹	1.GCE Institute Inc.
90	June 14	Room 2 (3F Multipurpose Room)	Session 14: Special Session 1-3 "Pulsed Laser Synthesis and Processing: Alloy Nanoparticles"	R2-S14-2	C000037	14:40	15:00	Oral	Fabrication of FeCoNi medium-entropy alloy nanoparticles by high-repetition-rate UV picosecond laser ablation in water	Atsuya Watanabe ¹ , *Tomoyuki Yatsushashi ²	1.Graduate School of Engineering, Osaka Metropolitan University, 2.Graduate School of Science, Osaka Metropolitan University

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91	June 14	Room 2 (3F Multipurpose Room)	Session 14: Special Session 1-3 "Pulsed Laser Synthesis and Processing: Alloy Nanoparticles"	R2-S14-3	C000108	15:00	15:20	Oral/Student	Pulsed-laser ablation for scalable synthesis of high-performance compositionally complex alloy aerogel electrocatalysts	*Varatharaja Nallathambi ^{1,2} , Cui Wang ³ , Sven Reichenberger ¹ , Baptiste Gault ² , Dierk Raabe ² , Alexander Eychmüller ³ , Stephan Barcikowski ¹	1.Technical Chemistry I and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, 2.Department of Microstructure Physics and Alloy Design, Max-Planck-Institut für Eisenforschung, 3.Chair of Physical Chemistry, Technische Universität Dresden
92	June 14	Room 2 (3F Multipurpose Room)	Session 14: Special Session 1-3 "Pulsed Laser Synthesis and Processing: Alloy Nanoparticles"	R2-S14-4	C000212	15:20	15:40	Oral	Pulsed laser-assisted synthesis of electrocatalysts for hydrazine-coupled electrolyzer	*Myong Yong Choi ¹	1.Department of Chemistry, Core-Facility Center for Photochemistry & Nanomaterials, Gyeongsang National University
93	June 14	Room 3 (1F Meeting Room # 1)	Session 15: Micro-welding	R3-S15-1-INVITED	C000023	14:10	14:40	Invited	Flexible use of laser beam technology for e-mobility	*Jan-Philipp Weberpals ¹ , Daniel Böhm ¹ , Emine Demircan ¹	1.AUDI AG
94	June 14	Room 3 (1F Meeting Room # 1)	Session 15: Micro-welding	R3-S15-2	C000030	14:40	15:00	Oral	Direct bonding of semiconductors by through-transmission laser welding	*Pol Sopeña ¹ , Andong Wang ² , Alexandros Mouskeftaris ¹ , David Grojo ¹	1.Aix-Marseille Université, CNRS, LP3, 2.University of Oxford, Department of Engineering Science
95	June 14	Room 3 (1F Meeting Room # 1)	Session 15: Micro-welding	R3-S15-3	C000052	15:00	15:20	Oral/Student	Fundamental Study on Micro-welding of Glass by Multiple Spots of Picosecond Pulsed Laser with Spatial Light Modulator	*Ryo Takashima ¹ , Kazuki Ihoriya ¹ , Yasuhiro Okamoto ¹ , Akira Okada ¹	1.Okayama University
96	June 14	Room 3 (1F Meeting Room # 1)	Session 15: Micro-welding	R3-S15-4	C000160	15:20	15:40	Oral	Analysis of glass welding process by ultra-short pulse laser (USPL) at high pulse repetition rates	*Isamu Miyamoto ^{1,2} , Kristian Cvecek ^{2,3} , Michael Schmidt ^{2,3,4}	1.Osaka University, 2.Erlangen School in Advanced Optical Technologies (SAOT), 3.Friedrich-Alexander-University of Erlangen-Nuerenberg, 4.blz - Bayerisches Laser Zentrum
97	June 14	Room 3 (1F Meeting Room # 1)	Session 15: Micro-welding	R3-S15-5	C000164	15:40	16:00	Oral	Effects of laser wavelength on temperature field in glass welding by ultra-short pulse laser at high pulse repetition rates	*Isamu Miyamoto ¹ , Kristian Cvecek ^{2,3} , Michael Schmidt ^{2,3,4}	1.Osaka University, 2.Erlangen Graduate School in Advanced Optical Technologies, 3.Friedrich-Alexander-University of Erlangen-Nuerenberg, 4.blz - Bayerisches Laserzentrum
98	June 14	Room 4 (2F Meeting Room #6)	Session 16: Surface processing and related technologies	R4-S16-1	C000179	14:10	14:30	Oral/Student	High Power Laser Sintering of LISICON electrolytes	*Yannick Eatmon ¹ , Shuichiro Hayashi ² , Craig Arnold ¹	1.Princeton University, 2.Keio University
99	June 14	Room 4 (2F Meeting Room #6)	Session 16: Surface processing and related technologies	R4-S16-2	C000235	14:30	14:50	Oral/Student	Local crystallinity change on poly(ether ether ketone) induced by ultrashort laser pulse irradiation using low frequency Raman spectroscopy	*Tomoko Numata ^{1,2} , Keisuke Takbayashi ^{1,5} , Eibon Tsuchiya ⁵ , Naomoto Ishikawa ³ , Takuro Tomita ⁴ , Yohei Kobayashi ⁵	1.Akita University, 2.HORIBA TECHNO SERVICE Co., Ltd., 3.Kiguchi Technics inc., 4.Tokushima University, 5.Institute for Solid State Physics Univ. of Tokyo
100	June 14	Room 4 (2F Meeting Room #6)	Session 16: Surface processing and related technologies	R4-S16-3	C000198	14:50	15:10	Oral	Laser Shock Peening of Ceramic Materials	*Bai Cui ¹ , Fei Wang ¹ , Yongchul Yoo ¹ , Daniel P. DeLellis ² , Amanda R. Krause ² , Yongfeng Lu ¹	1.University of Nebraska-Lincoln, 2.Carnegie Mellon University
101	June 14	Room 4 (2F Meeting Room #6)	Session 16: Surface processing and related technologies	R4-S16-4	C000214	15:10	15:30	Oral/Student	The Impact of Multifunctional Dendritic Oligomers in UV-Curable Resins	*Maximilian Frederick Flesch ¹ , Klaus Kreuels ² , Julius Alexander Funke ¹	1.Fraunhofer Institute for Laser Technology ILT, 2.Chair for Laser Technology (LLT), RWTH Aachen
102	June 14	Room 4 (2F Meeting Room #6)	Session 16: Surface processing and related technologies	R4-S16-5	C000267	15:30	15:50	Oral	Electromagnetic field assisted laser cladding: Experiment study and regulation mechanism	*Jianhua Yao ^{1,2} , Liang Wang ^{1,2} , Yong Hu ^{1,2} , Honghao Ge ^{1,2} , Qunli Zhang ^{1,2}	1.Institute of Laser Advanced Manufacturing, Zhejiang University of Technology, 2.Collaborative Innovation Center of High-end Laser Manufacturing Equipment (National "2011 Plan"), Zhejiang University of Technology
103	June 14	Room 1 (2F Meeting Room #3)	Session 17: Ultra-short pulse laser processing 2 (Surface of transparent materials))	R1-S17-1	C000105	16:30	16:50	Oral	Ultrafast Bessel Beams for the engraving of volume diffraction gratings in glass	Jorge Fantova ^{1,2} , Ainara Rodriguez ^{1,2} , Gemma Garcia-Mandayo ^{1,2} , *Santiago M. Olaizola ^{1,2}	1.CEIT-Basque Research and Technology Alliance (BRTA), Manuel Lardizabal 15, 20018 Donostia/San Sebastián, Spain, 2.Universidad de Navarra, Tecnun, Manuel Lardizabal 13, 20018 Donostia/San Sebastián, Spain
104	June 14	Room 1 (2F Meeting Room #3)	Session 17: Ultra-short pulse laser processing 2 (Surface of transparent materials))	R1-S17-2	C000245	16:50	17:10	Oral/Student	Femtosecond laser processing of hard materials for antireflection applications	*Jiaxin Zheng ¹ , Jinyong Qi ¹ , Dongyang Lv ² , Baoxu Wang ¹ , Xueqing Liu ¹	1.Jilin University, 2.Continental Automotive System Changchun Co., Ltd. Jingyue Branch
105	June 14	Room 1 (2F Meeting Room #3)	Session 17: Ultra-short pulse laser processing 2 (Surface of transparent materials))	R1-S17-3	C000114	17:10	17:30	Oral/Student	Comparison of fused silica ablation with picosecond and femtosecond lasers	*Laimis Zubauskas ¹ , Arnas Vyšniauskas ¹ , Edgaras Markauskas ¹ , Paulius Gečys ¹	1.Center for Physical Science and Technology (FTMC)
106	June 14	Room 1 (2F Meeting Room #3)	Session 17: Ultra-short pulse laser processing 2 (Surface of transparent materials))	R1-S17-4	C000071	17:30	17:50	Oral/Student	Time-resolved quantitative imaging of electronic excitation processes in glass under femtosecond laser irradiation	*Qinru Zheng ¹ , Yusuke Ito ¹ , Junya Hattori ¹ , Yuta Teshima ¹ , Guoqi Ren ¹ , Huijie Sun ¹ , A. Amani Eilanlou ¹ , Atsushi Iwasaki ¹ , Naohiko Sugita ¹	1.The university of Tokyo
107	June 14	Room 1 (2F Meeting Room #3)	Session 17: Ultra-short pulse laser processing 2 (Surface of transparent materials))	R1-S17-5	C000088	17:50	18:10	Oral	Ultrafast and precision micro-drilling of zirconia ceramics by transient and selective laser processing	*Yanming Zhang ¹ , Chaoran Wei ¹ , Yusuke Ito ¹ , Naohiko Sugita ¹	1.Gradual school of Engineering, The University of Tokyo

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108	June 14	Room 2 (3F Multipurpose Room)	Session 18: Laser-based direct-write techniques 1	R2-S18-1	C000060	16:30	16:50	Oral/Student	Consideration of heating rates on structure formation for laser-induced graphitization of polymers	*Shuichiro Hayashi ^{1, 2} , Xiaohan Du ¹ , Marco Rupp ¹ , Kai A. Filsinger ¹ , Mitsuhiro Terakawa ² , Craig B. Arnold ¹	1.Princeton University, 2.Keio University
109	June 14	Room 2 (3F Multipurpose Room)	Session 18: Laser-based direct-write techniques 1	R2-S18-2	C000083	16:50	17:10	Oral/Student	Fabrication of Triboelectric Nanogenerators by Laser-induced Graphitization of Cellulose Nanofiber Films	*Yosuke Kondo ¹ , Rei Funayama ¹ , Mitsuhiro Terakawa ¹	1.Keio University
110	June 14	Room 2 (3F Multipurpose Room)	Session 18: Laser-based direct-write techniques 1	R2-S18-3	C000220	17:10	17:30	Oral/Student	Cu-based electrodes for non-enzymatic glucose detection fabricated by green femtosecond laser reductive sintering	*Hirokazu Komatsu ¹ , Kyohei Yoshidomi ¹ , Evgenia M. Khairullina ² , Ilya I. Tumkin ² , Mizue Mizoshiri ¹	1.Nagaoka University of Technology, 2.St. Petersburg State University, Russia
111	June 14	Room 2 (3F Multipurpose Room)	Session 18: Laser-based direct-write techniques 1	R2-S18-4	C000076	17:30	17:50	Oral	Femtosecond laser plane-by-plane inscription of fiber Bragg gratings with high reflectivity and low loss	Xizhen Xu ¹ , *Jun He ¹ , Jiafeng Wu ¹ , Yiping Wang ¹	1.Shenzhen University
112	June 14	Room 2 (3F Multipurpose Room)	Session 18: Laser-based direct-write techniques 1	R2-S18-5	C000113	17:50	18:10	Oral/Student	Femtosecond laser direct writing of parallel-integrated single-mode helical Bragg gratings for vector bending sensing	*Baijie Xu ¹ , Jun He ¹ , Xizhen Xu ¹ , Yiping Wang ¹	1.Shenzhen University
113	June 14	Room 3 (1F Meeting Room # 1)	Session 19: Cutting and other processing technologies	R3-S19-1	C000132	16:30	16:50	Oral/Student	Comparison of lasox and laser-oxyfuel hybrid cutting effect in dissimilar metal	*Hanjin Jo ¹ , Sion Kim ¹ , Geonhui Lee ¹ , Heesu Lee ¹ , Duckbong Seo ² , Sungyoon Lee ³ , Tae Jun Yu ^{1, 3, 4}	1.Handong global university, 2.SUN Engineering, Inc., 3.HIL Lab, Inc., 4.Global Green Research and Development Center
114	June 14	Room 3 (1F Meeting Room # 1)	Session 19: Cutting and other processing technologies	R3-S19-2	C000229	16:50	17:10	Oral/Student	Effect of laser beam diameter and depth of focus on the STS304L laser cutting in the pressurized underwater	*Jaeook Jeon ¹ , Moo-keun Song ² , Jungsoo Choi ³ , Su-jin Lee ³ , Dongsig shin ³ , Jongdo Kim ⁴	1.Korea Maritime & Ocean University, Graduate School, 2.Korea Maritime & Ocean University, Laser Advanced Machining Support Center, 3.Korea institute of Machinery & Materials, 4.Korea Maritime & Ocean University
115	June 14	Room 3 (1F Meeting Room # 1)	Session 19: Cutting and other processing technologies	R3-S19-3	C000111	17:10	17:30	Oral	Evaluation of loading system based on fiber optical Mach-Zehnder interferometer and smartphone sensor with Phyphox	*Jian-Neng Wang ¹ , Wei-Chen Lin ¹	1.National Yunlin University of Science and Technology
116	June 14	Room 3 (1F Meeting Room # 1)	Session 19: Cutting and other processing technologies	R3-S19-4	C000166	17:30	17:50	Oral	Laser Wire Directed Energy Deposition of SS 308L	*Sanasam Sunderlal Singh ¹ , Niketh S ¹ , Samuel GL ¹	1.Indian Institute of Technology Madras
117	June 14	Room 3 (1F Meeting Room # 1)	Session 19: Cutting and other processing technologies	R3-S19-5	C000254	17:50	18:10	Oral/Student	Millisecond pulsed laser micro-drilling of stainless steel – optimizing hole quality using response surface methodology	*Arvind Kumar Gupta ¹ , Ramesh Singh ¹ , Deepak Marla ¹	1.Indian Institute of Technology Bombay, Mechanical Engineering Department, Mumbai-400076
118	June 14	Room 4 (2F Meeting Room #6)	Session 20: Micropatterning structuring and modification	R4-S20-1	C000019	16:30	16:50	Oral	Parametric study of nano-textured micro-structured surface topographies produced by picosecond laser micromachining	*Evgueni V. Bordatchev ^{1, 2} , Honghe Wu ^{2, 1}	1.National Research Council of Canada, 2.Western University
119	June 14	Room 4 (2F Meeting Room #6)	Session 20: Micropatterning structuring and modification	R4-S20-2	C000092	16:50	17:10	Oral/Student	Fabrication of micro-scale graded shape memory alloy components using laser-induced forward transfer	*Logaheswari Muniraj ¹ , Robert L. Reuben ¹ , Marcus Ardron ² , Duncan P. Hand ¹	1.Heriot-Watt University , 2.Renishaw
120	June 14	Room 4 (2F Meeting Room #6)	Session 20: Micropatterning structuring and modification	R4-S20-3	C000192	17:10	17:30	Oral	Laser-based decoating and micro-patterning of formed compound-foil-based bipolar plates for application in PEM fuel cells	Tobias Alexander Keller ¹ , Michael Joemann ² , Laura Huwald ² , Maximilian Wand ² , Matthias Trenn ¹ , *Anna Grevé ²	1.Fraunhofer ILT - Institute for Laser Technology, 2.Fraunhofer UMSICHT - Institute for Environment, Safety and Energy Technology
121	June 14	Room 4 (2F Meeting Room #6)	Session 20: Micropatterning structuring and modification	R4-S20-4	C000057	17:30	17:50	Oral	Strategies to enhance the electrochemical performance of lithium-ion batteries (LIB) using ultrashort-pulse laser technology	Aldara Pan ¹ , Oihane Beldarrain ¹ , Ainara Rodriguez ^{1, 2} , *Santiago Miguel Olaizola ^{1, 2} , Isabel Ayerdi ^{1, 2} , Maria Carmen Morant-Miñana ³	1.Asociación Centro Tecnológico Ceit, 2.Universidad de Navarra - tecnun, 3.CIC energigUNE
122	June 14	Room 4 (2F Meeting Room #6)	Session 20: Micropatterning structuring and modification	R4-S20-5	C000205	17:50	18:10	Oral/Student	Ultrafast laser induced chemical modification on Tungsten Surface	*Priya DOMINIC ¹ , Florent Bourquard ¹ , Djafar Iabbaden ¹ , Arnaud Weck ² , Jean-Philippe Colombier ¹ , Florence Garrelie ¹	1.Jean Monnet University, 2.University of Ottawa
123	June 15	Room 1 (2F Meeting Room #3)	Session 21: Ultra-short pulse laser processing 3 (Drilling, Cutting)	R1-S21-1	C000036	9:20	9:40	Oral/Student	High-quality laser cutting of heat-sensitive polymer materials using femtosecond laser pulses	*Evaldas Kažukauskas ^{1, 3} , Arnas Vyšniauskas ^{2, 3} , Valdemar Stankevič ^{2, 3}	1.Laser Research Center, Faculty of Physics, Vilnius University, Lithuania, 2.Center for Physical Sciences and Technology, Vilnius, Lithuania, 3.Akoneer, Vilnius, Lithuania
124	June 15	Room 1 (2F Meeting Room #3)	Session 21: Ultra-short pulse laser processing 3 (Drilling, Cutting)	R1-S21-2	C000020	9:40	10:00	Oral	Ultrahigh Speed Femtosecond Laser Fabrication of Numerous Glass Micro-chambers for Molecular Analysis	*Jiawei Zhang ¹ , Kotaro Obata ¹ , Koji Sugioka ¹	1.RIKEN
125	June 15	Room 1 (2F Meeting Room #3)	Session 21: Ultra-short pulse laser processing 3 (Drilling, Cutting)	R1-S21-3	C000124	10:00	10:20	Oral	Material and ultrashort pulse laser parameters influencing the ablation quality of multi-layer thin film systems	*Astrid Sassmannshausen ¹ , Semjon Mooraj ² , Martin Kratz ³	1.Chair for Laser Technology - RWTH Aachen University, 2.Saint-Gobain Sekurit Deutschland GmbH, 3.Fraunhofer Institute for Laser Technology
126	June 15	Room 1 (2F Meeting Room #3)	Session 21: Ultra-short pulse laser processing 3 (Drilling, Cutting)	R1-S21-4	C000146	10:20	10:40	Oral	Initial stage of Si processing using single pulse of NIR fs-laser	*Masahito Katto ¹ , Masanori Kaku ¹ , Yuji Sato ² , Masahiro Tsukamoto ² , Atsushi Yokotani ¹	1.University of Miyazaki, 2.Osaka University

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Count	Date	Room	Session Title	Presentation Number	Submission No.	Talk		Presentation type	Presentation title	Authors	Affiliations
						Starts	Ends				
127	June 15	Room 1 (2F Meeting Room #3)	Session 21: Ultra-short pulse laser processing 3 (Drilling, Cutting)	R1-S21-5	C000115	10:40	11:00	Oral	Femtosecond laser cutting of 110-550 µm thickness borosilicate glass in ambient air and water	Laimis Zubauskas ¹ , Edgaras Markauskas ¹ , Gediminas Raciukaitis ¹ , *Paulius Gecys ¹	1.Center for Physical Sciences and Technology (FTMC)
128	June 15	Room 2 (3F Multipurpose Room)	Session 22: Special Session 1-4 "Pulsed Laser Fragmentation in Liquids: Fundamentals and Application"	R2-S22-1	C000135	09:20	09:40	Oral	Laser fragmentation of gold nanoparticles in water: Phase explosion, inverse Leidenfrost effect at nanoscale, and evaporation-driven nanobubble formation	Hao Huang ^{1,2} , *Leonid Zhigilei ¹	1.University of Virginia, 2.Huazhong University of Science and Technology
129	June 15	Room 2 (3F Multipurpose Room)	Session 22: Special Session 1-4 "Pulsed Laser Fragmentation in Liquids: Fundamentals and Application"	R2-S22-2	C000099 Presenting author Changed.	09:40	10:00	Oral	Chemical tuning of the surface charge density affects electron cooling in colloidal nanoparticles by electronic screening	*Anna Rosa Ziefuss ¹ , Christoph Rehbock ¹ , Sven Reichenberger ¹ , Zhijiang Chen ² , Benjamin K Ofori-Okai ² , Mianzhen Mo ² , Siegfried Glenzer ² , Stephan Barcikowski ¹	1.Technical chemistry I, University of Duisburg-Essen and Center for Nanointegration Duisburg-Essen (CENIDE), Universitätsstraße 1-7, 45141 Essen, Germany, 2.High Energy Density Science Division, SLAC National Accelerator Laboratory, Menlo Park, California 94025, USA
130	June 15	Room 2 (3F Multipurpose Room)	Session 22: Special Session 1-4 "Pulsed Laser Fragmentation in Liquids: Fundamentals and Application"	R2-S22-3	C000144	10:00	10:20	Oral	Surface charge density effects on the fluorescence of laser-generated and fully inorganic metal, alloy, and metal oxide nanoclusters	Anna R Ziefuss ¹ , Torben Steenbock ² , Anton Plech ³ , Christoph Rehbock ¹ , Clothilde Comby-Zerbino ⁵ , David Amans ⁵ , Indranath Chakraborty ⁶ , Gabriel Bester ^{6,2} , Milen Nachev ⁷ , Maximilian Spellaue ⁸ , Heinz P. Huber ⁸ , Bernd Sures ⁷ , Michael Rübhausen ⁴ , Wolfgang J. Parak ⁶ , *Stephan Barcikowski ¹	1. Technical chemistry I, University of Duisburg-Essen and Center for Nanointegration Duisburg-Essen (CENIDE), Essen, Germany, 2. Institute of Physical Chemistry, University of Hamburg, Hamburg, Germany, 3. Institute for Photon Science and Synchrotron Radiation, Karlsruhe Institute of Technology, Eggenstein-Leopoldshafen, Germany, 4. Institut für Nanostruktur- und Festkörperphysik, Center for Free Electron Laser Science (CFEL), Universität Hamburg, Hamburg, Germany, 5. Univ Lyon, Université Claude Bernard Lyon 1, CNRS, UMR5306, Institut Lumière Matière, Villeurbanne, France, 6. Department of physics and chemistry, University Hamburg, Hamburg, Germany, 7. Department of Aquatic Ecology and Centre for Water and Environmental Research, University of Duisburg-Essen, Essen, Germany, 8. Lasercenter, Department of Applied Science and Mechatronics, Munich University of Applied Science HM, Munich, Germany
131	June 15	Room 2 (3F Multipurpose Room)	Session 22: Special Session 1-4 "Pulsed Laser Fragmentation in Liquids: Fundamentals and Application"	R2-S22-4	C000167	10:20	10:40	Oral/Student	Robust and scalable synthesis of ultrasmall, OER-active iridium nanoparticles through one-step microparticle laser fragmentation	*Meike Tack ¹ , Norbert Kazamer ² , Sven Reichenberger ¹ , Maximilian Spellaue ^{1,3} , Anna Rosa Ziefuss ¹ , Heinz Huber ³ , Stephan Barcikowski ¹	1.Technical Chemistry I, Center for Nanointegration, University of Duisburg-Essen, 2.Westphalian Energy Institute, Westphalian University of Applied Sciences Gelsenkirchen Bocholt Recklinghausen, 3.Department of Applied Sciences and Mechatronics, Munich University of Applied Sciences HM
132	June 15	Room 2 (3F Multipurpose Room)	Session 22: Special Session 1-4 "Pulsed Laser Fragmentation in Liquids: Fundamentals and Application"	R2-S22-5	C000067	10:40	11:00	Oral/Student	Pulsed laser post processing in liquids of pharmaceutical and food ingredient microparticle suspensions in a liquid-jet flow-through reactor with minimum degradation	*Tina Friedenauer ¹ , Dana Krenz ¹ , Christoph Rehbock ¹ , Stephan Barcikowski ¹	1.Technical Chemistry I and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, Universitaetsstr. 7, 45141 Essen
133	June 15	Room 3 (1F Meeting Room # 1)	Session 23: Glass/Ceramic processing	R3-S23-1	C000234	09:20	09:40	Oral	Combined laser processing technologies to support a progress in laser wake field acceleration (LWFA)	Migle Mackeviciute ¹ , Vidmantas Tomkus ¹ , Juozas Dudutis ¹ , Valdemar Stankevici ¹ , Paulius Gecys ¹ , *Gediminas Raciukaitis ¹	1.FTMC - Center for Physical Sciences and Technology
134	June 15	Room 3 (1F Meeting Room # 1)	Session 23: Glass/Ceramic processing	R3-S23-2	C000040	09:40	10:00	Oral	Laser fabrication of glass microfluidic biochips for testing melanoma cells response under X-ray irradiation	*Florin Jipa ¹ , Cristina Staicu ^{2,1} , Ioana Porosnicu ¹ , Cosmin Dobra ¹ , Ion Tiseanu ¹ , Alexandra Bran ¹ , Emanuel Axente ¹ , Felix Sima ^{1,3} , Koji Sugioka ³	1.National Institute for Laser, Plasma and Radiation Physics (INFLPR), 2.Department of Anatomy, Animal Physiology and Biophysics, Faculty of Biology, University of Bucharest, 3.RIKEN Center for Advanced Photonics
135	June 15	Room 3 (1F Meeting Room # 1)	Session 23: Glass/Ceramic processing	R3-S23-3	C000204	10:00	10:20	Oral	Laser machining and resurfacing of glass to fabricate optical components	*Hai Xiao ¹ , Nicholas Tomlinson ¹ , Jianan Tang ¹ , Travis Roberts ¹	1.Clemson University
136	June 15	Room 3 (1F Meeting Room # 1)	Session 23: Glass/Ceramic processing	R3-S23-4	C000176	10:20	10:40	Oral	Ablation of technical ceramics via cw-laser radiation and comparison with an ultrashort-pulsed laser ablation process	*Dennis Haasler ¹ , Ralph Surrey ¹ , Philipp Bremer ¹	1.Fraunhofer-Institute for Laser Technology ILT
137	June 15	Room 3 (1F Meeting Room # 1)	Session 23: Glass/Ceramic processing	R3-S23-5	C000263	10:40	11:00	Oral	Improving the edge quality and surface finish in femtosecond laser machined glass using chemical etching	Harish Chandra ¹ , Ravi Bathe ² , *Deepak Marla ^{1*}	1. Department of Mechanical Engineering, Indian Institute of Technology Bombay, Mumbai 2. International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Hyderabad 500005, India
138	June 15	Room 4 (2F Meeting Room #6)	Session 24: LIPSS, micropatterning and structuring 1	R4-S24-1	C000125	09:20	09:40	Oral/Student	Novel 2D LIPSS formed on titanium surface by GHz burst mode femtosecond laser pulses	*Shota Kawabata ^{1,2} , Shi Bai ^{1,3} , Kotaro Obata ¹ , Godai Miyaji ² , Koji Sugioka ¹	1.RIKEN Center for Advanced Photonics, 2.Tokyo University of Agriculture and Technology, 3.Hebei University of Science and Technology
139	June 15	Room 4 (2F Meeting Room #6)	Session 24: LIPSS, micropatterning and structuring 1	R4-S24-2	C000206	09:40	10:00	Oral/Student	On the Insignificant Role of the Oxidation Process on Ultrafast High-Spatial-Frequency LIPSS Formation on Tungsten	*Priya DOMINIC ¹ , Florent Bourquard ¹ , Djafar Iabbaden ¹ , Stéphanie Reynaud ¹ , Arnaud Weck ² , Jean-Philippe Colombier Colombier ¹ , Florence Garrelie ¹	1.Jean Monnet University, 2.University of ottawa

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140	June 15	Room 4 (2F Meeting Room #6)	Session 24: LIPSS, micropatterning and structuring 1	R4-S24-3	C000062	10:00	10:20	Oral	Generation of regular LIPSS within DLIP structures at UV wavelength	*Aurélien Sikora ¹ , Marc Faucon ¹ , Girolamo Mincuzzi ¹ , Rainer Kling ¹	1.ALPHANOV
141	June 15	Room 4 (2F Meeting Room #6)	Session 24: LIPSS, micropatterning and structuring 1	R4-S24-4	C000238	10:20	10:40	Oral	Evolution of laser-induced periodic surface structures on thin transparent glass substrates observed by oil-immersion optical microscopy	Ryoji Kato ¹ , *Shigeki Matsuo ¹	1.Shibaura Institute of Technology
142	June 15	Room 4 (2F Meeting Room #6)	Session 24: LIPSS, micropatterning and structuring 1	R4-S24-5	C000237	10:40	11:00	Oral	LIPSS and its optical/photothermal properties modulation	*dongshi zhang ¹ , Ruijie Liu ¹ , Chunxi Li ¹ , zhuguo li ¹	1.SHANGHAI JIAO TONG UNIVERSITY
143	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-1	C000075	11:20	11:22	Poster/Student	Recoverable waveguide beam splitters fabricated by tailored femtosecond laser writing of lithium niobate crystal	*Bo Wu ¹ , Bin Zhang ¹ , Feng Chen ¹	1.ShanDong university
144	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-2	C000183	11:22	11:24	Poster/Student	Relationship between laser-processed shape and laser-pulse numbers in copper sintering using a nanosecond- and/or picosecond-burst-mode femtosecond laser	*Taiga Sasahara ¹ , Jumpei Fujiwara ¹ , Takao Ota ¹ , Wataru Watanabe ² , Takayuki Tamaki ¹	1.National Institute of Technology (KOSEN), Nara College, 2.Ritsumeikan University
145	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-3	C000255	11:24	11:26	Poster	Ultrafast laser direct writing in fused silica for eternal optical data storage	Yan-Hao Yu ¹ , Zi-Ting Liu ¹ , Yi Wang ² , Yu-Ting Huang ¹ , Wei Gong ¹ , Lin Wang ¹ , *Lei Wang ¹	1.Jilin University, 2.Tsinghua University
146	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-4	C000078	11:26	11:28	Poster/Student	Prediction of laser induced nano-periodic structure for laser irradiation conditions using deep learning	*Ryota Masuda ¹ , Yoshio Hayasaki ¹ , Satoshi Hasegawa ¹	1.Center for Optical Research and Education, Utsunomiya University
147	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-5	C000242	11:28	11:30	Poster	Periodic nanostructure formation on metal and semiconductor induced with few-cycle laser pulses	Akihiro Ishihara ¹ , *Godai Miyaji ¹	1.Tokyo University of Agriculture and Technology
148	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-6	C000043	11:30	11:32	Poster	Preparation of hexagonal-boron nitride nanoparticles by laser ablation in liquid and their properties	Kazuki Yamada ¹ , Yoshitaka Kitamoto ¹ , *Hiroyuki Wada ¹	1.Tokyo Institute of Technology
149	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-7	C000223	11:32	11:34	Poster	Important parameters for mass production in pulsed laser melting in liquid (PLML)	*Yoshie Ishikawa ¹ , Naoto Koshizaki ²	1.National Institute of Advanced Industrial Science and Technology (AIST), 2.Hokkaido University
150	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-8	C000153	11:34	11:36	Poster	Two-dimensional micro-patterning for superior joining force of dissimilar materials employing femtosecond laser system	*Minho Lee ^{1,2} , Jaeseok Hwang ¹ , Junho Hwang ¹ , Jonghoon Lee ¹ , Dongyun Lee ² , Hyundeok Kim ³	1.Institute of Advanced Convergence Technology, Kyungpook Nat. Univ, 2.Department Polymer Science and Engineering, Kyungpook Nat. Univ, 3.School of Electronics Engineering, Kyungpook Nat. Univ
151	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-9	C000027	11:36	11:38	Poster/Student	Analysis of surface characteristics of TNTZ by high-pressure torsion and laser texture	*Tsai-Hsuan Hsieh ¹ , Hsuan-Kai Lin ¹ , Yi-Hong Cheng ¹ , Piotr Bazarnik ² , Chuan Ting Wang ³ , Yi Huang ⁴ , Amor Abdelkader ⁴ , Terence G. Langdon ⁵	1.National Pingtung University of Science and Technology, 2.Warsaw University of Technology, 3.Nanjing University of Science and Technology, 4.Bournemouth University, 5.University of Southampton
152	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-10	C000038	11:38	11:40	Poster	Titanium surface nanostructuring by picosecond laser irradiation for surface improvement of dental abutments	*Emanuel AXENTE ¹ , Florin JIPA ¹ , Gianina Popescu-Pelin ¹ , Paula Florian ² , Madalina Icriverzi ² , Dragos Budei ³ , Koji Sugioka ⁴ , Felix Sima ^{1,4}	1.National Institute for Laser, Plasma and Radiation Physics (INFLPR), 2.Institute of Biochemistry of the Romanian Academy, 3.Dentix Millennium SRL, 4.RIKEN Center for Advanced Photonics
153	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-11	C000101	11:40	11:42	Poster	Phenomena of surface modification in EDM by applying silicone oils as the dielectric	*A-Cheng Wang ¹	1.229, Jiansing Rd., Chung Li, Taoyuan County
154	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-12	C000139	11:42	11:44	Poster/Student	Effects of laser peening parameters on plastic deformation under double pulse laser irradiation	*Tomohiro Shimotsuma ¹ , Nor Syaza Batrisyia Nor Bahri ¹ , Tsubasa Montani ¹ , Miho Tsuyama ¹ , Manabu Heya ² , Hitoshi Nakano ¹	1.Faculty of Science and Engineering, Kindai University, 2.Faculty of Engineering, Osaka-Sangyo University
155	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-13	C000170	11:44	11:46	Poster	Research of laser polishing effect for 3D printing surface	*ChienYao Huang ¹ , Wen-Tse Hsiao ¹ , Jun-Cheng Chen ¹ , Rou-Jhen Chen ¹	1.Taiwan Instrument Research Institute, National Applied Research Laboratories
156	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-14	C000194	11:46	11:48	Poster	Effect of laser peening with a plasma confinement layer having high acoustic impedance and a shape-following ability	*Miho Tsuyama ¹ , Yang Zhang ¹ , Manabu Heya ² , Hitoshi Nakano ¹	1.Kindai university, 2.Osaka-sangyo University
157	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-15	C000039	11:48	11:50	Poster/Student	Woodpile structures fabricated in glass microfluidic channels by laser processing for 3D cellular studies	*Alexandra Bran ¹ , Florin Jipa ¹ , Stefana Orobeti ^{1,2} , Emanuel Axente ¹ , Livia Elena Sima ² , Felix Sima ^{1,3} , Koji Sugioka ³	1.CETAL, National Institute for Laser, Plasma and Radiation Physics, 2.Institute of Biochemistry of Romanian Academy, 3.RIKEN Center for Advanced Photonics
158	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-16	C000211	11:50	11:52	Poster/Student	Surface Morphological Characteristics of Laser Induced Graphene	*Sungmoo Hong ¹ , Bo Sung Shin ²	1. Interdisciplinary Department for Innovative Manufacturing Engineering, Pusan National University 2. Department of Optics and Mechatronics Engineering, Pusan National University

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159	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-17	C000208	11:52	11:54	Poster	Three-dimensional waveguide beam splitters in LiTaO3 crystal by femtosecond laser direct writing	*Lingqi Li ¹	1.Qingdao University
160	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-18	C000253	11:54	11:56	Poster	Laser-induced dot transfer technique using interference pattern of femtosecond laser beams	*Yoshiki Nakata ¹ , Shohei Ueda ¹ , Hendrik Jäckel ²	1.Osaka University, 2.Georg August University of Göttingen
161	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-19	C000090	11:56	11:58	Poster/Student	Fabrication of Microfluidic Structure Inside Collagen Gel by Femtosecond Laser-induced Bubble	*Kodai Abe ¹ , Sohei Yamada ¹ , Yasutaka Hanada ¹	1.Hirosaki University
162	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-20	C000231	11:58	12:00	Poster	Micrometer-scale high-aspect machining of PDMS elastomer using laser plasma EUV radiation	Kotaro Oguchi ¹ , Yuhao Wang ¹ , *Tetsuya Makimura ¹	1.University of Tsukuba
163	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-21	C000049	12:00	12:02	Poster/Student	Fundamental microfabrication characteristics of thermoset polymer PDMS using microFLIB technique	*Yoichi Toba ¹ , Yasutaka Hanada ¹	1.Hirosaki University
164	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-22	C000148	12:02	12:04	Poster/Student	Real-time optical monitoring and evaluation of glass through hole drilled by transient and selective laser processing	*Kotaro Hinuma ¹ , Yanming Zhang ¹ , Yusuke Ito ¹ , Naohiko Sugita ¹	1.The University of Tokyo
165	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-23	C000232	12:04	12:06	Poster/Student	In-situ observation of weld dynamics with high-power laser in vacuum for elucidation of spatter reduction mechanism	*Yoshiaki Kurita ¹ , Tomoki Arita ² , Masami Mizutani ³ , Yuji Sato ³ , Hitoshi Nakano ² , Masahiro Tsukamoto ³	1.Graduate School of Engineering, Osaka University, 2.Graduate School of Science and Engineering, Kindai University, 3.Joining and Welding Research Institute, Osaka University
166	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-24	C000184	12:06	12:08	Poster/Student	On-machine measurement of laser-processed structures using optical interferometry	*Ren Umetsu ¹ , Yoshio Hayasaki ¹ , Satoshi Hasegawa ¹	1. Center for Optical Research and Education, Utsunomiya University
167	June 15	Room 1 (2F Meeting Room #3)	Short Presentations of Poster Session 2	P2-25	C000271	12:08	12:10	Poster	Wetting behaviour enhancement on DBC substrate surfaces by ultra-short pulse laser produced LIPSS (laser-induced periodic surface structures) in power module applications	Tobias Finzel ¹ , Anika Weber ^{1,2} , Lars Müller ¹ , Christian Goth ¹ , Marcus Reichenberger ²	1. Vitesco Technologies Germany GmbH – Nuremberg, Germany 2. Faculty of Electrical Engineering, Precision Engineering, Information Technology Technische Hochschule Nürnberg Georg Simon Ohm
-	June 15	Small Hall	Poster Session 2		-	12:20	14:00	Poster Presentations	All presenters, who are listed in the short presentation on June 15, have to stand at your poster board wearing blue ribbon during 12:20-14:00		
168	June 15	Room 1 (2F Meeting Room #3)	Session 25: Ultra-short pulse laser processing 4 (3D glass modification and microfluidic chip)	R1-S25-1	C000084	14:10	14:30	Oral	Bonding-free manufacture of large-scale fused silica microchannels enabled by hybrid laser microfabrication	*Jian Xu ¹ , Aodong Zhang ¹ , Jianping Yu ² , Ming Hu ¹ , Xin Li ¹ , Ya Cheng ^{1, 2}	1.East China Normal University, 2.Shanghai Institute of Optics and Fine Mechanics
169	June 15	Room 1 (2F Meeting Room #3)	Session 25: Ultra-short pulse laser processing 4 (3D glass modification and microfluidic chip)	R1-S25-2	C000034	14:30	14:50	Oral	Processing 3D transparent materials with sub-micron precision by ultrafast laser technologies: application to cancer research	*Felix Sima ^{1, 2} , Florin Jipa ¹ , Cristina Staicu ¹ , Alexandra Bran ¹ , Emanuel Axente ¹ , Hiroyuki Kawano ² , Kotaro Obata ² , Koji Sugioka ²	1.National Institute for Laser, Plasma and Radiation Physics, 2.RIKEN, Center for Advanced Photonics
170	June 15	Room 1 (2F Meeting Room #3)	Session 25: Ultra-short pulse laser processing 4 (3D glass modification and microfluidic chip)	R1-S25-3	C000112	14:50	15:10	Oral/Student	MHz and GHz laser burst modes for intra-volume glass modification	*Migle Mackeviciute ¹ , Juozas Dudutis ¹ , Paulius Gecys ¹	1.Center for Physical Sciences and Technology (FTMC)
171	June 15	Room 1 (2F Meeting Room #3)	Session 25: Ultra-short pulse laser processing 4 (3D glass modification and microfluidic chip)	R1-S25-4	C000069	15:10	15:30	Oral	" Refractive index modifications in sulphur based bulk chalcogenide Ge ₂₀ As ₂₀ S ₆₀ glasses by ultrafast pulses "	*Madhura Somayaji ¹	1.Technical Advisor at Edmund optics
172	June 15	Room 1 (2F Meeting Room #3)	Session 25: Ultra-short pulse laser processing 4 (3D glass modification and microfluidic chip)	R1-S25-5	C000226	15:30	15:50	Oral/Student	Femtosecond laser-induced photostructural and photochemical modifications in ultra-low expansion (ULE) glass	*Gözden Torun ¹ , Margarita Lesik ¹ , Pieter Vlugter ¹ , Yves Bellouard ¹	1.EPFL
173	June 15	Room 2 (3F Multipurpose Room)	Session 26: Special Session 1-5 "Pulsed Laser Melting in Liquids: Fundamentals and Application"	R2-S26-1-INVITED	C000224	14:10	14:40	Invited	Pulsed Laser Melting of Particles in Liquid - Fundamentals and Application -	*Naoto Koshizaki ¹ , Yoshie Ishikawa ² , Takeshi Tsuji ³ , Shota Sakaki ¹	1.Hokkaido University, 2.National Institute of Advanced Industrial Science and Technology (AIST), 3.Shimane University
174	June 15	Room 2 (3F Multipurpose Room)	Session 26: Special Session 1-5 "Pulsed Laser Melting in Liquids: Fundamentals and Application"	R2-S26-2	C000165	14:40	15:00	Oral	Cold extraction of coffee by ultrashort pulsed laser diffusion enhancement in liquids at low fluence	Tina Friedenauer ¹ , Friedrich Waag ¹ , Anna Rosa Ziefuß ¹ , Christoph Rehbock ¹ , *Stephan Barcikowski ¹	1.Technical Chemistry I and Center for Nanointegration Duisburg-Essen (CENIDE), University of Duisburg-Essen, Universitaetsstr. 7, 45141 Essen
175	June 15	Room 2 (3F Multipurpose Room)	Session 26: Special Session 1-5 "Pulsed Laser Melting in Liquids: Fundamentals and Application"	R2-S26-3	C000228	15:00	15:20	Oral/Student	Controlling of magnetic properties of copper-iron based composite particles	*Oliwia Polit ¹ , Marcin Perzanowski ¹ , Zaneta Swiatkowska-Warkocka ¹	1.Institute of Nuclear Physics Polish Academy of Sciences, PL-31342 Krakow, Poland

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176	June 15	Room 2 (3F Multipurpose Room)	Session 26: Special Session 1-5 "Pulsed Laser Melting in Liquids: Fundamentals and Application"	R2-S26-4	C000074	15:20	15:40	Oral	Synthesis, biomedical and catalytical applications of composites based on Ag, Au, Cu, and Cu-oxides.	*Żaneta Świątkowska-Warkocka ¹	1.Institute of Nuclear Physics PAN
177	June 15	Room 2 (3F Multipurpose Room)	Session 26: Special Session 1-5 "Pulsed Laser Melting in Liquids: Fundamentals and Application"	R2-S26-5	C000136	15:40	16:00	Oral/Student	Preparation of manganese phthalocyanine nanoparticles by laser ablation in liquid and application to bioimaging	*Yuchun Wang ¹ , Hiroyuki Wada ¹	1.Tokyo Institute of Technology
178	June 15	Room 3 (1F Meeting Room # 1)	Session 27: Special Session 2-1 "Machine Learning and Simulation for Laser Processing"	R3-S27-1	C000269	14:10	14:15	Oral	Short description of Special Session 2 "Machine Learning and Simulation for Laser Processing"	*Kenichi Ishikawa ¹ , Tomohito Otobe ^{1, 2} , Thibault J.-Y. Derrien ³	1.The University of Tokyo, 2.National Institutes for Quantum and Radiological Science and Technology, 3.HiLASE Centre, Czech Republic
179	June 15	Room 3 (1F Meeting Room # 1)	Session 27: Special Session 2-1 "Machine Learning and Simulation for Laser Processing"	R3-S27-2-INVITED	C000095	14:15	14:45	Invited	Simulating femtosecond laser ablation process using deep neural network	*Shuntaro Tani ¹ , Yohei Koabayashi ¹	1.The University of Tokyo
180	June 15	Room 3 (1F Meeting Room # 1)	Session 27: Special Session 2-1 "Machine Learning and Simulation for Laser Processing"	R3-S27-3	C000177	14:45	15:05	Oral	Platform for adaptive integration of data-driven models and simulations into USP Manufacturing Systems	*Moritz Alexander Kröger ¹ , Corvin Lasogga ² , Carlo Holly ^{3, 2}	1.RWTH Aachen LLT, 2.Fraunhofer ILT, 3.RWTH Aachen TOS
181	June 15	Room 3 (1F Meeting Room # 1)	Session 27: Special Session 2-1 "Machine Learning and Simulation for Laser Processing"	R3-S27-4	C000086	15:05	15:25	Oral/Student	Two-dimensional electron density measurement of ultrafast laser ablation plume with Shack-Hartmann sensor	*Keitaro Shimada ¹ , Yuki Inada ² , Ayumu Ishijima ³ , Keiichi Nakagawa ¹	1.The University of Tokyo, 2.Saitama University, 3.Hokkaido University
182	June 15	Room 3 (1F Meeting Room # 1)	Session 27: Special Session 2-1 "Machine Learning and Simulation for Laser Processing"	R3-S27-5	C000110	15:25	15:45	Oral	Electron temperature dynamics in warm dense matter using measured and DFT-calculated plasma frequency	*Rakesh Shikne ¹ , Hitoki Yoneda ¹ , Shivanand Chaurasia ²	1.University of Electro-Communications, 2.Queen's University Belfast
183	June 15	Room 3 (1F Meeting Room # 1)	Session 27: Special Session 2-1 "Machine Learning and Simulation for Laser Processing"	R3-S27-6	C000085	15:45	16:05	Oral/Student	Impact of electron-electron scattering in energy transfer from an intense femtosecond laser pulse to a metal thin film	*Mizuki Tani ^{1, 2} , Tomohito Otobe ^{1, 2} , Yasushi Shinohara ¹ , Kenichi L. Ishikawa ¹	1.The University of Tokyo, 2.National Institutes for Quantum Science and Technology
184	June 15	Room 4 (2F Meeting Room #6)	Session 28: LIPSS, micropatterning and structuring 2	R4-S28-1	C000047	14:10	14:30	Oral/Student	High precision ultra-short pulse laser micro structuring of nickel materials by combining direct laser interference patterning technique with polygon scanner	*Fabian Ränke ¹ , Robert Baumann ¹ , Bogdan Voisiat ¹ , Andrés Fabian Lasagni ^{1, 2}	1.Institute for Manufacturing Technology, Technische Universität Dresden, 2.Fraunhofer Institute for Material and Beam Technology IWS
185	June 15	Room 4 (2F Meeting Room #6)	Session 28: LIPSS, micropatterning and structuring 2	R4-S28-2	C000156	14:30	14:50	Oral/Student	Laser-interference treatment improves osseointegration on additively manufactured near-beta titanium alloy	*Frederic Schell ¹ , Avinash Hariharan ² , Phil Goldberg ² , Ute Hempel ³ , Martin Hantusch ² , Friedrich Striggow ² , Mariana Medina-Sánchez ² , Christoph Zwahr ¹ , Andrés Lasagni ^{4, 1} , Annett Gebert ²	1.Fraunhofer Institute for Material and Beam Technology IWS, 2.Leibniz IFW Dresden, 3.Institute of Physiological Chemistry, Faculty of Medicine Carl Gustav Carus, Technische Universität Dresden, 4.Technische Universität Dresden, Institut für Fertigungstechnik
186	June 15	Room 4 (2F Meeting Room #6)	Session 28: LIPSS, micropatterning and structuring 2	R4-S28-3	C000022	14:50	15:10	Oral	Surface functionalization of additively manufactured Scancromal® components by using nanosecond pulsed DLW and DLIP techniques	*Florian Kuisat ¹ , Fabian Ränke ¹ , Robert Baumann ¹ , Frank Palm ² , Andrés Fabian Lasagni ^{1, 3}	1.Technische Universität Dresden, Institut für Fertigungstechnik, George-Baehr-Str.3c, 01069 Dresden, 2.Airbus Defence and Space GmbH, Willy-Messerschmitt-Str. 1, 82024 Taufkirchen, 3.Fraunhofer Institute für Werkstoff- und Strahltechnik IWS, Winterbergstrasse 28, 01277 Dresden
187	June 15	Room 4 (2F Meeting Room #6)	Session 28: LIPSS, micropatterning and structuring 2	R4-S28-4	C000196	15:10	15:30	Oral	Laser surface texturing of metals using dynamic melt expulsion by application of fast modulated cw-laser radiation	*Andreas Schkutow ¹ , Thomas Frick ¹	1.Technische Hochschule Nuernberg Georg Simon Ohm
188	June 15	Room 4 (2F Meeting Room #6)	Session 28: LIPSS, micropatterning and structuring 2	R4-S28-5	C000249	15:30	15:50	Oral	Size effect of Cu ₂ O nanospheres on femtosecond laser reductive sintering for copper-based patterning	*Mizue Mizoshiri ¹ , Kien Trung Vu Nguyen ¹ , Thuan Duc Tran ¹ , Ohsuke Mizutani ¹	1.Nagaoka University of Technology
189	June 15	Room 1 (2F Meeting Room #3)	Session 29: Ultra-short pulse laser processing 5 (3D Micro/Nano fabrication of transparent materials)	R1-S29-1	C000175	16:30	16:50	Oral	Towards freeform fused silica optical fibre preforms via ultrafast laser induced selective chemical etching	*Calum A Ross ¹ , Kerriane Harrington ² , Robbie Mears ² , James M Stone ² , Tim A Birks ² , Robert R Thomson ¹	1.Heriot-Watt University, 2.University of Bath
190	June 15	Room 1 (2F Meeting Room #3)	Session 29: Ultra-short pulse laser processing 5 (3D Micro/Nano fabrication of transparent materials)	R1-S29-2	C000128	16:50	17:10	Oral	Feasibility studies for controlling the orientation of NV center ensemble in diamond	*Yasuhiko Shimotsuma ¹ , Kohei Kinouchi ¹ , Mitsuharu Uemoto ² , Masaki Fujiwara ³ , Norikazu Mizuochi ³ , Masahiro Shimizu ¹ , Kiyotaka Miura ¹	1.Department of Material Chemistry, Kyoto University, 2.Department of Electrical and Electronic Engineering, Kobe University, 3.Institute for Chemical Research, Kyoto University
191	June 15	Room 1 (2F Meeting Room #3)	Session 29: Ultra-short pulse laser processing 5 (3D Micro/Nano fabrication of transparent materials)	R1-S29-3	C000121	17:10	17:30	Oral/Student	Non-destructive interaction of femtosecond lasers with multilayered dielectrics	*Ruben Ricca ¹ , Yves Bellouard ¹	1.Galatea Lab - EPFL

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192	June 15	Room 1 (2F Meeting Room #3)	Session 29: Ultra-short pulse laser processing 5 (3D Micro/Nano fabrication of transparent materials)	R1-S29-4	C000261	17:30	17:50	Oral	Plasmonic enhancement of Faraday effect in xerogels co-doped with Ag ⁺ and Tb ³⁺ ions	*Seisuke Nakashima ¹ , Fumiya Ohata ¹ , Ken Honda ¹ , Susumu Nomura ¹	1.Shizuoka University
193	June 15	Room 2 (3F Multipurpose Room)	Session 30: Laser-based direct-write techniques 2	R2-S30-1-INVITED	C000252	16:30	17:00	Invited	Laser-induced graphitization of sustainable materials	*Mitsuhiro Terakawa ¹	1.Department of Electronics and Electrical Engineering, Keio University
194	June 15	Room 2 (3F Multipurpose Room)	Session 30: Laser-based direct-write techniques 2	R2-S30-2	C000239	17:00	17:20	Oral	Laser technologies enable carbon-based flexible mechatronics	*Dong-Dong Han ¹	1.Jilin University
195	June 15	Room 2 (3F Multipurpose Room)	Session 30: Laser-based direct-write techniques 2	R2-S30-3	C000248	17:20	17:40	Oral	Femtosecond laser bubble-based writing of pure hydroxyapatite	*Hiroaki Nishiyama ¹ , Shogo Nara ¹	1.Yamagata University
196	June 15	Room 2 (3F Multipurpose Room)	Session 30: Laser-based direct-write techniques 2	R2-S30-4	C000207	17:40	18:00	Oral/Student	Influence of thermal diffusion on femtosecond laser pulse-induced copper precipitation from surfactant added glyoxylic acid copper complex ink	*Nam Phuong Ha ¹ , Tomoji Ohishi ² , Mizue Mizoshiri ¹	1.Nagaoka University of Technology, 2.Shibaura Institute of Technology
197	June 15	Room 3 (1F Meeting Room # 1)	Session 31: Special Session 2-2 "Machine Learning and Simulation for Laser Processing"	R3-S31-1-INVITED	C000127	16:30	17:00	Invited	Optimisation and real-time control of femtosecond laser machining via deep learning	*Ben Mills ¹ , James A Grant-Jacob ¹ , Matthew Praeger ¹ , Yunhui Xie ¹ , Michalis N Zervas ¹	1.University of Southampton
198	June 15	Room 3 (1F Meeting Room # 1)	Session 31: Special Session 2-2 "Machine Learning and Simulation for Laser Processing"	R3-S31-2	C000142	17:00	17:20	Oral/Student	Prediction of laser-irradiation parameters in high-power laser surface processing using deep convolutional neural network	*Konika Rani ¹ , Norimasa Ozaki ¹ , Yoichiro Hironaka ¹ , Kazumune Hashimoto ¹ , Kanji Mukai ¹ , Yoshihiro Miyake ¹ , Ryosuke Kodama ¹ , Hiroataka Nakamura ¹ , Shigemasa Takai ¹ , Hideo Nagatomo ¹	1.Graduate School of Engineering, Osaka University, Suita, Osaka
199	June 15	Room 3 (1F Meeting Room # 1)	Session 31: Special Session 2-2 "Machine Learning and Simulation for Laser Processing"	R3-S31-3	C000157	17:20	17:40	Oral	Ultrashort laser excitation of electrons in silicon: generation of first-principle excitation rates and their exploitation using machine learning	*Thibault J.-Y. Derrien ¹ , Nadezhda M. Bulgakova ¹	1.HiLASE Centre - Institute of Physics (AS CR)
200	June 15	Room 3 (1F Meeting Room # 1)	Session 31: Special Session 2-2 "Machine Learning and Simulation for Laser Processing"	R3-S31-4	C000221	17:40	18:00	Oral/Student	Enhanced energy absorption in silicon by femtosecond laser double pulses with different wavelengths	*Eiyu Gushiken ¹ , Mizuki Tani ¹ , Kenichi L Ishikawa ¹	1.School of Engineering, The University of Tokyo
201	June 15	Room 4 (2F Meeting Room #6)	Session 32: LIPSS, micropatterning and structuring 3	R4-S32-1-INVITED	C000270	16:30	17:00	Invited	Shaping Ultrafast Laser Filaments – Gateway to Novel 3D Photonic Devices	Peter R. Herman ¹ , Abdullah Rahnama ¹ , Polina Zavvalova ^{1,2} , Jianzhao Li ¹ , Gligor Djogo ¹	1. Department of Electrical & Computer Engineering, University of Toronto, Toronto, Ontario, Canada 2. The Dunlap Institute for Astronomy and Astrophysics, University of Toronto, Toronto, Ontario, Canada
202	June 15	Room 4 (2F Meeting Room #6)	Session 32: LIPSS, micropatterning and structuring 3	R4-S32-2	C000009	17:00	17:20	Oral	Dual layer lift-off process for microelectrode fabrication on lithium niobate photonic chips using femtosecond laser lithography	*Jinming Chen ¹ , Lvbin Song ¹ , Zhaoxiang Liu ¹ , Guanhua Wang ¹ , Chao Sun ¹ , Ya Cheng ¹	1.East China of Normal University
203	June 15	Room 4 (2F Meeting Room #6)	Session 32: LIPSS, micropatterning and structuring 3	R4-S32-3	C000087	17:20	17:40	Oral	Laser Texturing via Liquid Microlens Array by Breath Figure Method	Zhi-Yu Liu ¹ , Chia-Lung Kuo ¹ , *Yuan-Jen Chang ¹	1.National Yunlin University of Science and Technology
204	June 15	Room 4 (2F Meeting Room #6)	Session 32: LIPSS, micropatterning and structuring 3	R4-S32-4	C000017	17:40	18:00	Oral/Student	Influence of beam polarizations on silicon carbide grooving via femtosecond laser	*Jia-Fan Kuo ¹ , Chung-Wei Cheng ¹	1.National Yang Ming Chiao Tung University
205	June 16	Room 1 (2F Meeting Room #3)	Session 33: Ultra-short pulse laser processing 6 (Metal)	R1-S33-1	C000066	09:20	09:40	Oral	Comparison of single pulse irradiation of different types of stainless steel with ultra-short pulsed laser radiation	*Dirk Oberfell ^{1,2} , Bahman Azarhoushang ¹ , Andrés Fabián Lasagni ²	1.Hochschule Furtwangen, 2.Technische Universität Dresden
206	June 16	Room 1 (2F Meeting Room #3)	Session 33: Ultra-short pulse laser processing 6 (Metal)	R1-S33-2	C000064	09:40	10:00	Oral/Student	Femtosecond laser ablation modeling of tilted microfeatures on copper surfaces	*Pol Vanwersch ^{1,2} , Balasubramanian Nagarajan ¹ , Albert Van Bael ² , Sylvie Castagne ¹	1.KU Leuven, Department of Mechanical Engineering and Flanders Make@KU Leuven M&A, Leuven, 2.KU Leuven, Department of Materials Engineering, Diepenbeek Campus
207	June 16	Room 1 (2F Meeting Room #3)	Session 33: Ultra-short pulse laser processing 6 (Metal)	R1-S33-3	C000032	10:00	10:20	Oral	Surface characterization of thin titanium foils processed by femtosecond laser ablation in liquids	*Philipp Louis Maack ^{1,2} , Christian Richard Günther ^{1,2} , Konrad Bargon ^{1,2} , Alexander Kanitz ³ , Cemal Esen ^{1,2} , Andreas Ostendorf ^{1,2}	1.Ruhr University Bochum, 2.Applied Laser Technologies, 3.LIDROTEC GmbH
208	June 16	Room 1 (2F Meeting Room #3)	Session 33: Ultra-short pulse laser processing 6 (Metal)	R1-S33-4	C000201	10:20	10:40	Oral/Student	Drilling of stainless steel foil by using a Bessel-Gauss beam with reduced sidelobe ablation with a spatial filter	*Seongguk Bae ¹ , Seungjai Won ¹ , Sungho Jeong ¹	1.Gwangju Institute of Science and Technology

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209	June 16	Room 2 (3F Multipurpose Room)	Session 34: Laser, optics and systems for laser microprocessing 1	R2-S34-1-INVITED	C000251	09:10	09:40	Invited	Femtosecond laser-driven optomechanical substrates: an enabling tool for nanometer alignment resolution and packaging of optical systems	*Yves Bellouard ¹	1. EPFL-École Polytechnique Fédérale de Lausanne
210	June 16	Room 2 (3F Multipurpose Room)	Session 34: Laser, optics and systems for laser microprocessing 1	R2-S34-2	C000042	09:40	10:00	Oral	Versatile GHz burst-mode operation in high-power femtosecond laser for industrial applications	*Lukas Rimgaila ¹ , Deividas Andriukaitis ¹ , Dr. Tadas Bartulevičius ¹	1.Ekspla
211	June 16	Room 2 (3F Multipurpose Room)	Session 34: Laser, optics and systems for laser microprocessing 1	R2-S34-3	C000081	10:00	10:20	Oral	Development of high-power infrared laser capable phase-only spatial light modulator	*Yu Takiguchi ¹ , Hiroshi Tanaka ¹ , Tsubasa Watanabe ¹ , Naoaki Kato ¹ , Keisuke Uchida ¹ , Munenori Takumi ¹ , Tomoko Otsu Hyodo ¹ , Kazuhiro Nakamura ¹ , Haruyoshi Toyoda ¹	1.Hamamatsu Photonics K.K.
212	June 16	Room 2 (3F Multipurpose Room)	Session 34: Laser, optics and systems for laser microprocessing 1	R2-S34-4	C000129	10:20	10:40	Oral	3D nanolithography using super-low cost translation stage	Darius Gailevicius ¹ , Sima Rekstyte Paipuliene ² , Maciej Kretkowski ¹ , *Vygantas Mizeikis ¹	1.Shizuoka University, 2.Vilnius University
213	June 16	Room 3 (1F Meeting Room # 1)	Session 35: Special Session 2-3 "Machine Learning and Simulation for Laser Processing"	R3-S35-1-INVITED	C000133	09:10	09:40	Invited	Generation of crystal defects in ultrashort pulse laser processing of surfaces and nanoparticles	Chaobo Chen ¹ , Yuan Xu ¹ , Maxim V Shugaev ¹ , *Leonid Zhigilei ¹	1.University of Virginia
214	June 16	Room 3 (1F Meeting Room # 1)	Session 35: Special Session 2-3 "Machine Learning and Simulation for Laser Processing"	R3-S35-2	C000041	09:40	10:00	Oral	<i>Machine Learning interatomic potentials for solids excited by intense ultrashort laser pulses</i>	Bernd Bauerhenne ¹ , Pascal Plettenberg ² , *Martin E Garcia ³	1.Institute of Physics, University of Kassel, Kassel, 2.Institute of Physics, University of Kassel, Kassel, 3.Institute of Physics, University of Kassel, Kassel
215	June 16	Room 3 (1F Meeting Room # 1)	Session 35: Special Session 2-3 "Machine Learning and Simulation for Laser Processing"	R3-S35-3	C000053	10:00	10:20	Oral	Study of Laser Excitation and Damage Threshold in Silicon Using Three-Temperature Model	*Prachi Venkat ¹ , Tomohito Otobe ^{1, 2}	1.Kansai Photon Science Institute, National Institutes for Quantum Science and Technology, Kyoto, 2.Photon Science Center, The University of Tokyo
216	June 16	Room 3 (1F Meeting Room # 1)	Session 35: Special Session 2-3 "Machine Learning and Simulation for Laser Processing"	R3-S35-4	C000021	10:20	10:40	Oral	Electronic-Temperature Effects on Laser Ablation of Si: A Molecular Dynamics Study	*Ryo Kobayashi ¹ , Tomohito Otobe ²	1.Nagoya Institute of Technology, 2.National Institutes for Quantum Science and Technology
217	June 16	Room 4 (2F Meeting Room #6)	Session 36: Process monitoring and control 1	R4-S36-1	C000026	09:40	10:00	Oral	Performance simulation of the laser remelting process for reinforcement learning-based control	Honghe Wu ^{2, 1} , *Evgueni V Bordatchev ^{1, 2} , Remus Tutunea-Fatan ^{2, 1}	1.National Research Council of Canada, 2.Western University
218	June 16	Room 4 (2F Meeting Room #6)	Session 36: Process monitoring and control 1	R4-S36-2	C000035	10:00	10:20	Oral	Quality and physical properties revealed: sensors for monitoring and controlling laser processes in combination with sophisticated data models	*Markus Kogel-Hollacher ¹ , Jens Reiser ¹ , Matthias Strebel ¹ , Joachim Schwarz ²	1.Precitec GmbH & Co. KG, 2.Precitec Vision GmbH & Co. KG
219	June 16	Room 4 (2F Meeting Room #6)	Session 36: Process monitoring and control 1	R4-S36-3	C000180	10:20	10:40	Oral	Classification of photo-acoustic emission in Direct Laser Interference Patterning for identifying the spatial period	*Tobias Steege ¹ , Adrian Belkin ¹ , Christoph Zwahr ¹ , Andrés F. Lasagni ^{2, 1}	1.Fraunhofer Institute for Material and Beam Technology IWS, 2.Technische Universität Dresden
220	June 16	Room 1 (2F Meeting Room #3)	Session 37: Ultra-short pulse laser processing 7 (New trend)	R1-S37-1	C000236	11:00	11:20	Oral	Laser Patterning of Thin Film Sensors on Bearing Shells	*Jan Friedrich Duesing ¹ , Jürgen Koch ¹ , Matheus Marques Da Silva ² , Constantin Kiesling ³ , Martin Kober ³ , Thomas Gasperlmaier ⁴ , Gunther Hager ⁴ , Peter Jaeschke ¹ , Ludger Overmeyer ^{1, 5} , Stefan Kaierle ^{1, 5}	1.Laser Zentrum Hannover e.V., 2.Institute of Thermodynamics and Sustainable Propulsion Systems, Graz University of Technology, 3.LEC GmbH, 4.Miba Gleitlager Austria GmbH, 5.Institute of Transport and Automation Engineering, Leibniz Universität Hannover
221	June 16	Room 1 (2F Meeting Room #3)	Session 37: Ultra-short pulse laser processing 7 (New trend)	R1-S37-2	C000145	11:20	11:40	Oral/Student	Pulse-duration-dependence of novel metal alloying on Fe/Cr/Ni thin films by picosecond laser irradiation.	*Taiyoh Kawano ¹ , Eibon Tsuchiya ² , Makoto Yamaguchi ³ , Tatsuya Okada ¹ , Yohei Kobayashi ² , Takuro Tomita ¹	1.Graduate School of Science and Technology for Innovation, Tokushima University, 2.Institute for Solid State Physics, University of Tokyo, 3.Graduate School of Engineering Science, Akita University
222	June 16	Room 1 (2F Meeting Room #3)	Session 37: Ultra-short pulse laser processing 7 (New trend)	R1-S37-3	C000093	11:40	12:00	Oral/Student	Femtosecond laser slicing of single crystal AlN layer grown by Hydride Vapor Phase Epitaxy on an AlN substrate generated by Physical Vapor Transport	*Yang Yang ¹ , Katsuo Matsui ¹ , Yasuhiko Shimotsuma ¹ , Taishi Furuya ² , Reo Yamamoto ² , Toru Nagashima ² , Masahiro Shimizu ¹ , Kiyotaka Miura ¹	1.Kyoto University, 2.Tokuyama Corporation
223	June 16	Room 1 (2F Meeting Room #3)	Session 37: Ultra-short pulse laser processing 7 (New trend)	R1-S37-4	C000150	12:00	12:20	Oral/Student	Effective photoinjection of DNA plasmid into Tobacco BY-2 cells under pH treatment using femtosecond laser amplifier	*Muhammad Ridho Priyo Jatmiko ¹ , Ryohei Yasukuni ² , Yuma Ueda ¹ , Naomi Tanga ¹ , Tadashi Kunieda ¹ , Taku Demura ¹ , Yoichiro Hosokawa ¹	1.Nara Institute of Science and Technology, 2.Osaka Institute of Technology
224	June 16	Room 2 (3F Multipurpose Room)	Session 38: Lasers, optics and systems for laser microprocessing 2	R2-S38-1	C000149	11:00	11:20	Oral/Student	The effects of temperature conditions on aberration in the beam delivery system	*Ji Hun Kim ¹ , Joohan Kim ¹	1.Seoul National University of science and technology
225	June 16	Room 2 (3F Multipurpose Room)	Session 38: Lasers, optics and systems for laser microprocessing 2	R2-S38-2	C000268	11:20	11:40	Oral	Improvement of beam stability using spatial light modulator for high-precision laser processing	*Satoshi Hasegawa ¹ , Yoshio Hayasaki ¹	1.Center for Optical Research and Education (CORE), Utsunomiya University

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226	June 16	Room 2 (3F Multipurpose Room)	Session 38: Lasers, optics and systems for laser microprocessing 2	R2-S38-3	C000188	11:40	12:00	Oral/Student	Machine learning for scanning path prediction in laser forming - Application of structured patterns and CNN -	*Ping-Hsien Chou ¹ , Keiji Yamada ¹ , Eisuke Sentoku ² , Ryutaro Tanaka ¹ , Katsuhiko Sekiya ¹	1.Hiroshima University, 2.National Institute of Technology, Fukui College
227	June 16	Room 3 (1F Meeting Room # 1)	Session 39: Special Session 2-4 "Machine Learning and Simulation for Laser Processing"	R3-S39-1	C000106	11:00	11:20	Oral	Universal properties of the temperature dynamics using the multiple-temperature model	*Hiroki Katow ¹ , Kenichi L Ishikawa ¹	1.the University of Tokyo
228	June 16	Room 3 (1F Meeting Room # 1)	Session 39: Special Session 2-4 "Machine Learning and Simulation for Laser Processing"	R3-S39-2	C000061	11:20	11:40	Oral/Student	Study on the propagation behaviour of ultrashort pulses inside synthetic silica glass	*Takumi Koike ¹ , Yusuke Ito ¹ , Guoqi Ren ¹ , Ayumu Ishijima ² , Naohiko Sugita ¹	1.Department of Mechanical Engineering, School of Engineering, The University of Tokyo, 2.Research Institute for Electronic Science, Hokkaido University
229	June 16	Room 3 (1F Meeting Room # 1)	Session 39: Special Session 2-4 "Machine Learning and Simulation for Laser Processing"	R3-S39-3	C000141	11:40	12:00	Oral	Comparison of ionization models in nonlinear propagation simulation in air for femtosecond laser ablation	*Ryohei Yamada ¹ , Wataru Komatsubara ¹ , Haruyuki Sakurai ¹ , Kuniaki Konishi ¹ , Norikatsu Mio ¹ , Junji Yumoto ¹ , Makoto Kuwata Gonokami ¹	1.The University of Tokyo
230	June 16	Room 3 (1F Meeting Room # 1)	Session 39: Special Session 2-4 "Machine Learning and Simulation for Laser Processing"	R3-S39-4	C000029	12:00	12:20	Oral	Numerical investigation on pore entrapment and elimination in additive manufacturing by a multiphase MPS method	*Guangtao Duan ¹ , Mikio Sakai ¹	1.The University of Tokyo
231	June 16	Room 4 (2F Meeting Room #6)	Session 40: Process monitoring and control 2	R4-S40-1	C000116	11:00	11:20	Oral	In-situ monitoring of laser machining in transparent and hard brittle materials with chuck-based electric fields	*Chao-Ching Ho ¹ , Han-san Xie ¹ , Che-Yu Hsieh ¹	1.National Taipei University of Technology
232	June 16	Room 4 (2F Meeting Room #6)	Session 40: Process monitoring and control 2	R4-S40-2	C000181	11:20	11:40	Oral/Student	Control of chemical composition for metals in laser-based powder bed fusion	*Marco Rupp ¹ , Shuichiro Hayashi ^{1,2} , Xiaohan Du ¹ , Claire Dashe ¹ , Craig B. Arnold ¹	1.Princeton University, 2.Keio University
233	June 16	Room 4 (2F Meeting Room #6)	Session 40: Process monitoring and control 2	R4-S40-3	C000079	11:40	12:00	Oral	Fast determination of beam properties of ultrafast lasers during materials processing using spectral X-ray measurements	*Julian Holland ¹ , Christian Hagenlocher ¹ , Rudolf Weber ¹ , Thomas Graf ¹	1.Institut für Strahlwerkzeuge Uni Stuttgart (IFSW)
234	June 16	Room 4 (2F Meeting Room #6)	Session 40: Process monitoring and control 2	R4-S40-4	C000218	12:00	12:20	Oral/Student	Fabrication of miniature optics by laser-induced thermal reflow of discretized primitive shapes with a goal-oriented process-feedback control	*Samuel Benketaf ¹	1.EPFL - IEM Galatea lab
235	June 16	Plenary Session Hall (1F Main Hall)	Closing Plenary session: Highly effective microfabrication	M-PL-04-PLENARY	C000266	13:30	14:10	Plenary	How much power can you handle? Status and strategies for high power ultrashort pulse applications	*Ulf Quentin ¹ , Daniel Flamm ¹ , Jonas Kleiner ¹ , Max Kahmann ¹ , Marc Sailer ² , Dirk Sutter ² , Dominik Bauer ² , Klaus Albers ² , Alexander Killi ²	1.TRUMPF Laser- und Systemtechnik GmbH, Ditzingen, 2.TRUMPF Laser GmbH, Schramberg
236	June 16	Plenary Session Hall (1F Main Hall)	Closing Plenary session: Highly effective microfabrication	M-PL-05-PLENARY	C000187	14:10	14:50	Plenary	<i>Holographic optical engine for high-throughput, robust, and functional shaped-beam laser processing</i>	*Yoshio Hayasaki ¹	1.Utsunomiya University
-	June 16	Plenary Session Hall (1F Main Hall)	Award Ceremony & Closing Remark			14:50	15:20				