LPM2021 Presentation List (149 presentations as of June 4)

	Session No.	Session Title	Submission ID	Abstract Title	Presenting Author	Affiliation	County	Invited / Full / Short Oral Presentations (On-Demand)			Student
1	Session 1 Live	Plenary Talk on June 8 21:15-22:00 JST	206	Challenge to LPP-EUV Source and Material Processing for Semiconductor HVM	DR. HAKARU MIZOGUCHI	Executive Vice President, CTO, GiGAPHOTON INC.	Japan				
2		Plenary Talk on June AM 5:00-5:45, PDT	205	A spectroscopic detection scheme to improve femtosecond laser induced molecular alignment and rotation analysis	DR. XIANGLEI MAO	Lawrence Berkeley National Laboratory	USA				
3		Plenary Talk on June 10 14:00-14:45, CEST	207	Ultrashort pulse laser micro and macro machining – progress and perspectives in industrial use	PROF. ARNOLD GILLNER	Leiter Kompetenzfeld Abtragen und Fügen, Department Manager Ablation and Joining, Fraunhofer-Institut für Lasertechnik ILT	Germany				

Invited talks, Full Oral / Short Oral presentations: See next pages.

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4	Session 2	Fundamental aspects (Dynamics, modeling, simulation, etc.)	76	First-principles calculations of initial stage of laser damage	DR. ATSUSHI YAMADA	University of Tsukuba	Japan	Invited			
5	Session 2	Fundamental aspects (Dynamics, modeling, simulation, etc.)	19	Ultrashort laser heating of metals: insights from reflectivity and ablation threshold measurements	DR. OLIVIER UTÉZA	Aix-Maraseille University, CNRS, LP3	France		Full		
6	Session 2	Fundamental aspects (Dynamics, modeling, simulation, etc.)	101	Formation and Its Mechanism of High-speed Micro-grooving on Metal Surface by Angled CW Laser Irradiation	MS. NOZOMI TAURA	Okayama University	Japan		Full		Student
7	Session 2	Fundamental aspects (Dynamics, modeling, simulation, etc.)	134	A multi-scale model for ultra short pulsed parallel laser structuring — Part I. the micro-scale model	MR. CHRISTIAN HEINIGK	Nonlinear Dynamics of Laser Manufacturing Processes Instruction and Research Department - RWTH Aachen University	Germany		Full		
8	Session 2	Fundamental aspects (Dynamics, modeling, simulation, etc.)	161	Multiscale computational study of surface modification by laser-induced acoustic waves	PROF. LEONID ZHIGILEI	University of Virginia	USA		Full		
9	Session 2	Fundamental aspects (Dynamics, modeling, simulation, etc.)	55	The pulse duration dependent ablation crater on Si	MR. KAZUKI MIMURA	Tokushima University	Japan			Short	Student
10	Session 2	Fundamental aspects (Dynamics, modeling, simulation, etc.)	81	Development of AI for estimating laser power from temperature distribution	MS. MIKI NAKAONE	Tokyo University of Technology	Japan			Short	Student
11	Session 2	Fundamental aspects (Dynamics, modeling, simulation, etc.)	102	Observation of laser ablation in thermoset polymer PDMS	DR. RIE TANABE-YAMAGISHI	Fukuoka Institute of Technology	Japan			Short	
12	Session 3	Laser and photochemistry	126	Laser-assisted growth of diamonds with high crystallinity and boron doping	DR. YONGFENG LU	University of Nebraska - Lincoln	USA	Invited			
13	Session 3	Laser and photochemistry	21	Surface charge density effects on the fluorescence of laser-generated and fully inorganic, different-sized gold nanocluster	MS. ANNA ROSA ZIEFUSS	University of Duisburg-Essen and Center for Nanointegration Dusiburg-Essen (CENIDE)	Germany		Full		Student
14	Session 3	Laser and photochemistry	100	Preparation and characterization of copper oxide nano-inks for high-frequency femtosecond laser-induced fabrication of Cu circuit	DR. YAJUN HUANG	Laser Micro/Nano Processing Lab, School of Electromechanical Engineering, Guangdong University of Technology	China		Full		Student
15	Session 3	Laser and photochemistry	121	Modeling of polymerization dynamics in 3D direct laser writing by two-photon polymerization	MR. JASON JOHNSON	School of Mechanical Engineering, Purdue University; Birck Nanotechnology Center, Purdue University	USA		Full		Student
16	Session 4	Surface Micro/Nano Structuring	131	Femtosecond laser ablation of dielectrics: Wavelength scaling from ultraviolet to mid-infrared	DR. MARIO GARCIA-LECHUGA	Departamento de Física Aplicada, Universidad Autó noma de Madrid, Madrid	Spain	Invited			
17	Session 4	Surface Micro/Nano Structuring	67	Comparative study of femtosecond laser-induced self-organization on the surface of tellurite glass	MS. GÖZDEN TORUN	Ecole Polytechnique Federale de Lausanne	Switzerland		Full		Student

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	Session No.	Session Title	Submission ID	Abstract Title	Presenting Author	Affiliation	County	Invited / Full / Short Oral Presentations (On-Demand)			Student
18	Session 4	Surface Micro/Nano Structuring	153	Pulse duration dependence of dry laser peening effects in the femtosecond-to-picosecond regime	MR. ITSUKI NISHIBATA	Osaka University	Japan		Full		Student
19	Session 4	Surface Micro/Nano Structuring	181	Super-efficient drilling of stainless steel with ultrafast non-diffractive Bessel beams	DR. HUU DAT NGUYEN	Laboratoire Hubert Curien, UMR 5516 CNRS, Universite´de Lyon, Universite´Jean Monnet, Institute of Optics Graduate School, Saint-Etienne	France		Full		
20	Session 4	Surface Micro/Nano Structuring	188	Femtosecond laser fabrication of nanoscale geometries on inserts to manufacture surface-relief phase gratings through injection moulding	DR. MIKEL GOMEZ-ARANZADI	Ceit	Spain		Full		
21	Session 4	Surface Micro/Nano Structuring	199	Laser Induced Periodic surface structure formation in solids via mid-IR Ultrashort Pulses	DR. GEORGE TSIBIDIS	IESL-FORTH	Greece		Full		
22	Session 4	Surface Micro/Nano Structuring	213	Numerical Modelling and Experimental Investigation on the Dynamic Behaviour of Water Droplet Impingement on Hydrophobic Surfaces Fabricated by Femtosecond laser	PROF. SAMUEL GL	Indian Institute of Technology Madras	India		Full		
23	Session 4	Surface Micro/Nano Structuring	175	Time resolved ablation dynamics of indium tin oxide	MR. GORAN ERIK HALLUM	Munich University of Applied Sciences	Germany		FULL		Student
24	Session 4	Surface Micro/Nano Structuring	97	Modifications induced by femtosecond laser irradiation on (001) surface of diamond crystal	MR. KENYA BANDO	Graduate Student, Graduate School of Science and Technology for Innovation, Tokushima University	Japan			Short	Student
25	Session 4	Surface Micro/Nano Structuring	106	Raman studies for structural change of DLC film on Si induced by ultrafast laser ablation	MR. KEISUKE TAKABAYASHI	Graduate School of engineering science, Akita University	Japan			Short	Student
26	Session 5	Burst ablation and processing	61	Improving laser ablation efficiency of silicon by femtosecond laser with GHz burst in MHz burst	DR. FRANCESC CABALLERO LUCAS	RIKEN	Japan		Full		
27	Session 5	Burst ablation and processing	69	Deep engraving of fused silica glass using bursts of femtosecond pulses with intra-burst frequencies in the range of 25 - 100 GHz	DR. SIMAS BUTKUS	Vilnius University, Laser Research Center; Light Conversion	Lithuania		Full		
28	Session 5	Burst ablation and processing	71	In situ analysis of ultrashort pulsed burst ablation via transmission pump probe imaging	MR. BENEDIKT BORNSCHLEGEL	Chair for Laser Technology LLT - RWTH Aachen University	Germany		Full		Student
29	Session 5	Burst ablation and processing	84	Improvement of fabrication resolution in multi-photon polymerization by GHz burst mode femtosecond laser	DR. KOTARO OBATA	Advanced Laser Processing Research Team, RIKEN Center for Advanced Photonics, RIKEN	Japan		Full		
30	Session 5	Burst ablation and processing	123	Ultrashort pulse laser micro polishing by discontinuous surface melting using burst mode	MS. ASTRID SASSMANNSHAUSEN	Fraunhofer Institute for Laser Technology ILT	Germany		Full		

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31	Session 5	Burst ablation and processing	129	Influence of temporal sequence and relative pulse intensities on the processing of stainless steel using bursts of ultrashort laser pulses	DR. JOHANNES FINGER	Fraunhofer Institute for Laser Technology ILT	Germany		Full		
32	Session 5	Burst ablation and processing	74	Micromachining of transparent biocompatible polymers applied in medicine using bursts of femtosecond laser pulses	MR. EVALDAS KAŽUKAUSKAS	Vilnius University Laser Research Center	Lithuania			Short	Student
33	Session 6	Ultra-short pulse laser processing of Glass/Ceramic	50	Tailored USP laser beams for transparent materials processing	DR. MALTE KUMKAR	TRUMPF Laser- und Systemtechnik GmbH	Germany	Invited			
34	Session 6	Ultra-short pulse laser processing of Glass/Ceramic	36	The effect of Bi2O3 content on micro-lens, -craters and waveguide formation in PbO-Bi2O3-Ga2O3 glasses by direct laser writing	DR. PETR KNOTEK	University of Pardubice, Department of General and Inorganic Chemistry, Pardubice,	Czech Republic		Full		
35	Session 6	Ultra-short pulse laser processing of Glass/Ceramic	59	Investigation of joint condition in the ultrashort laser microwelding under changing applied pressure distribution	MR. TOMOKI TSUJI	Advanced Mechanical Engineering Course, Faculty of Advanced Engineering Control Engineering, National Institute of Technology (KOSEN), Nara College	Japan		Full		Student
36	Session 6	Ultra-short pulse laser processing of Glass/Ceramic	158	Fabrication of single-mode microfluidic optical waveguides inside fused silica using slit shaped femtosecond laser assisted chemical etching	DR. JIAN XU	East China Normal University	China		Full		
37	Session 6	Ultra-short pulse laser processing of Glass/Ceramic	165	Fabrication of Diffraction Grating using Holographic Parallel Focused Beams with Long Focal Depth	MR. FUMIYA ISHITA	Center for Optical Research and Education (CORE), Utsunomiya University	Japan		Full		Student
38	Session 6	Ultra-short pulse laser processing of Glass/Ceramic	176	Simulation of femtosecond laser drilling of glass in consideration of heat accumulation	MR. CHAORAN WEI	the University of Tokyo	Japan		Full		Student
39	Session 6	Ultra-short pulse laser processing of Glass/Ceramic	179	Processing of arrays of microchannels with 1.5-µm spatial periodicity by picosecond laser ablation	DR. NICOLAS SANNER	Aix Marseille University, CNRS, LP3, UMR7341, 13288 Marseille,	France		Full		
40	Session 6	Ultra-short pulse laser processing of Glass/Ceramic	184	Room temperature space-selective precipitation of silver nanoparticles using femtosecond laser inside transparent silica xerogels	PROF. SEISUKE NAKASHIMA	Shizuoka University	Japan		Full		
41	Session 6	Ultra-short pulse laser processing of Glass/Ceramic	186	Space-selective ultrafast-laser modification microstructure of extremely low expansion lithium aluminosilicate glass-ceramics	MR. ANDREY NAUMOV	Mendeleev University of Chemical Technology, Miusskaya Sq. 9, Moscow 125047,	Russia		Full		Student
42	Session 6	Ultra-short pulse laser processing of Glass/Ceramic	166	Time resolved pump-probe imaging of ablation phenomena in quartz glass by the visible femtosecond laser	MR. EICHI TERASAWA	Waseda Research Institute for Science and Engineering, Waseda University	Japan			Short	Student
43	Session 6	Ultra-short pulse laser processing of Glass/Ceramic	167	Fabrication of miniature internal threads in glass with reduced cracks by Laser processing in rhodamine aqueous solution	DR. SHIGEKI MATSUO	Shibaura Institute of Technology	Japan			Short	
44	Session 7	Nano ripple formation	49	Generation, control and formation mechanisms of LIPSS in semiconductors	DR. JAN SIEGEL	Laser Processing Group, Instituto de Óptica, IO-CSIC, Serrano 121, 28006 Madrid,	Spain	Invited			

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45	Session 7	Nano ripple formation	79	Investigation of the plasmonic nature of laser-induced periodic surface structures	MR. JENS OLTMANNS	Institut für Nanophotonik Göttingen e.V.	Germany		Full		Student
46	Session 7	Nano ripple formation	104	Effect of electrolyte on ultrashort-pulsed laser ablation	DR. SHUHEI KODAMA	Tokyo University of Agriculture and Technology	Japan		Full		
47	Session 7	Nano ripple formation	117	Tailoring the copper wettability by laser surface texturing with THz bursts of fs pulses	DR. CATERINA GAUDIUSO	Dipartimento Interateneo di Fisica, Università degli Studi di Bari; CNR-IFN UOS BARI, Via Amendola 173, Bari	Italy		Full		
48	Session 7	Nano ripple formation	56	Spontaneous formation of the nano-periodic structures of DLC on SiC by picosecond laser irradiation	MR. KEN YAMAMOTO	Tokushima University, Graduate School of Sciences and Technology for Innovation	Japan			Short	Student
49	Session 7	Nano ripple formation	72	Influence of beam wave front in the formation of Laser-Induced Periodic Surface Structures in Stainless Steel	MR. ALEJANDRO SAN-BLAS	Ceit	Spain			Short	Student
50	Session 7	Nano ripple formation	82	Optical properties of Au thin-film coated LIPSS	MR. ÁLVARO MOMBLÁN MEDINA	Universidad de Navarra, Tecnun	Spain			Short	Student
51	Session 7	Nano ripple formation	197	Anisotropic tribological properties of cylindrical metal samples formed by Nd:YAG laser radiation	DR. LIGA GRASE	Riga Technical University	Latvia			Short	
52	Session 8	Nano- and micro-particles (including laser synthesis and processing in liquids)	17	Atomistic modelling of nanoparticle generation in short pulse laser ablation in liquid: The effect of pulse duration	PROF. LEONID ZHIGILEI	University of Virginia	USA	Invited			
53	Session 8	Nano- and micro-particles (including laser synthesis and processing in liquids)	93	Role of solvent in Fe-oxides composite particles formation during pulsed laser irradiation process	MS. OLIWIA POLIT	Institute of Nuclear Physics Polish Academy of Sciences, Krakow,	Poland		Full		Student
54	Session 8	Nano- and micro-particles (including laser synthesis and processing in liquids)	152	Alloys of immiscible metals synthesized by pulse laser technique	DR. ŻANETA ŚWIĄTKOWSKA-WARKOCKA	Institute of Nuclear Physics Polish Academy of Sciences, PL-31342 Krakow,	Poland		Full		
55	Session 8	Nano- and micro-particles (including laser synthesis and processing in liquids)	162	Preparation of Gd2O3:Er,Yb nanoparticles by laser ablation in liquid and their optical properties for biomedical application	MS. YURI TEI	School of Materials and Chemical Technology, Tokyo Institute of Technology	Japan		Full		Student
56	Session 8	Nano- and micro-particles (including laser synthesis and processing in liquids)	47	Kinetics of nanoparticles formation under UV, VIS and IR nanosecond laser irradiation of a silver-ions-enriched glass	DR. EKATERINA BABICH	1-Peter the Great St. Petersburg Polytechnic University, St. Petersburg 2-Alferov University, St. Petersburg	Russia			Short	
57	Session 8	Nano- and micro-particles (including laser synthesis and processing in liquids)	128	Observation of formation of SiO2 nanoparticle by UV pulsed laser ablation in a background gas	MR. REIJI KOIKE	Kyushu University	Japan			Short	Student
58	Session 8	Nano- and micro-particles (including laser synthesis and processing in liquids)	185	Nano particle manipulation by using Femtosecond laser impulse	DR. YAXIAER YALIKUN	NAIST	Japan			Short	

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59	Session 9	Micro-machining	209	How do pulse duration and temporal pulse separation influence dynamics and energetics of ultrafast laser ablation of metals? A time-resolved study.	PROF. HEINZ P. HUBER	Munich University of Applied Sciences (MUAS)	Germany	Invited			
60	Session 9	Micro-machining	15	High-aspect micromachining of PDMS sheets using laser plasma EUV radiation	PROF. TETSUYA MAKIMURA	University of Tsukuba	Japan		Full		
61	Session 9	Micro-machining	41	A Deep Learning-Based Simulator for Multi-shot Femtosecond Laser Drilling of Glass	MR. KOHEI SHIMAHARA	The Institute for Solid State Physics, The University of Tokyo	Japan		Full		Student
62	Session 9	Micro-machining	130	Fundamental Study on High-quality Micro-shape Fabrication of Monocrystalline Diamond by Nanosecond Pulsed Laser	MR. TSUBASA OKUBO	Okayama University	Japan		Full		Student
63	Session 9	Micro-machining	149	High-efficiency Micro-drilling of Glass by Simultaneous Multiple Transient and Selective Laser Absorption into Multiple Filaments using Spatial Light Modulator	MS. REINA YOSHIZAKI	the University of Tokyo	Japan		Full		Student
64	Session 9	Micro-machining	124	Influence of laser pulse repetition rate on the ablation efficiency and surface quality of copper	MR. MANTAS GAIDYS	Department of Laser Technologies (LTS), Center for Physical Sciences and Technology (FTMC)	Lithuania		Full		Student
65	Session 9	Micro-machining	23	Icephobic micro-textures fabricated by laser-based texturing methods	PROF. ANDRÉS FABIÁN LASAGNI	Institute for Manufacturing Technology, Technische Universität Dresden	Germany			Short	
66	Session 9	Micro-machining	110	Fundamental characteristics of PDMS fabrication using microFLIB	MR. RYOHEI TAKAHASHI	Hirosaki University	Japan			Short	Student
67	Session 10	Surface Micro-patterning and micro-structuring	22	Controlling Surface Properties by Fabricating Single and Multi-Scaled Periodic Surface Structures	PROF. ANDRÉS FABIÁN LASAGNI	1- Technische Universität Dresden, Institut für Fertigungstechnik, 2- Fraunhofer-Institut für Werkstoff- und Strahltechnik (IWS)	Germany	Invited			
68	Session 10	Surface Micro-patterning and micro-structuring	26	The influence of micro-textured cutting tools on tribological properties at tool-chip interface in turning of aluminium alloy 2024	DR. REZA NEKOUIE ESFAHANI	Manufacturing Technology Centre	UK		Full		
69	Session 10	Surface Micro-patterning and micro-structuring	27	Surface modification of additive manufactured specimens by nanosecond direct laser interference patterning	MR. FLORIAN KUISAT	Institute for Manufacturing Technology, Technische Universität Dresden	Germany		Full		Student
70	Session 10	Surface Micro-patterning and micro-structuring	68	Beam shaping the Direct Laser Interference Patterning Spot	MR. LUDWIG PONGRATZ	Fraunhofer Institute Laser Technology ILT	Germany		Full		
71	Session 10	Surface Micro-patterning and micro-structuring	127	Novel approaches in 2 beams-DLIP generation for 1D and 2D precise surface structuring	DR. AURÉLIEN SIKORA	ALPhANOV	Farnce		Full		

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72	Session 10	Surface Micro-patterning and micro-structuring	32	Optimized Direct Laser Interference Patterning of bearing steel based on response surface methodology	MR. MIKHAEL EL-KHOURY	Institute for Manufacturing Technology, Technische Universität Dresden	Germany			Short	Student
73	Session 10	Surface Micro-patterning and micro-structuring	33	Improving throughput and microstructure uniformity in Direct Laser Interference Patterning process utilizing diffractive focus beam shaper	MR. MIKHAEL EL-KHOURY	Institute for Manufacturing Technology, Technische Universität Dresden	Germany			Short	Student
74	Session 10	Surface Micro-patterning and micro-structuring	170	Controlling plasmonic nanoablation on silicon with double-pulse femtosecond laser	MR. YUTO IIDA	Tokyo University of Agriculture and Technology	Japan			Short	Student
75	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	35	Fabrication and Optical Analysis of the Decorative Features Formed by Direct Laser Interference patterning	DR. BOGDAN VOISIAT	Technische Universität Dresden, Institut für Fertigungstechnik	Germany		Full		
76	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	60	Effects of laser peening parameters on plastic deformation in aqueous glycerol solution as plasma confinement layer	MS. NOOR SHAHIRA MASROON	Faculty of Science and Engineering, Kindai University	Japan		Full		Student
77	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	63	Control of plasma confinement layer for effective laser-peening	MS. YANG ZHANG	Faculty of Science and Engineering, Kindai University	Japan		Full		Student
78	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	83	Control of acoustic impedance of plasma confinement layer for laser peening	MS. NOR SYAZA BATRISYIA NOR BAHRI	Faculty of Science and Engineering, Kindai University	Japan		Full		Student
79	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	85	Laser peening with solid state medium having high acoustic impedance as plasm confinement layer	DR. MIHO TSUYAMA	Faculty of Science and Engineering, Kindai University	Japan		Full		
80	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	147	Prediction of the morphological features of laser-based patterned surfaces through the use of machine learning approaches	DR. GEORGE TSIBIDIS	IESL-FORTH	Greece		Full		
81	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	194	Tailored Sub-micrometer Periodic Surface Structures via Ultrashort Pulsed Direct Laser Interference Patterning	DR. FOTIS FRAGGELAKIS	Institute of Electronic Structure and Laser (IESL), Foundation for Research and Technology (FORTH), N. Plastira 100, Vassilika Vouton, 70013, Heraklion, Crete,	Greece		Full		
82	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	24	Fabrication of superhydrophobic hierarchical textures on Aluminum by combining laser-based methods	MR. STEPHAN MILLES	Technische Universität Dresden	Germany			Short	
83	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	29	Surface roughness reduction of additive manufactured components by nanosecond pulsed laser treatment	MR. FLORIAN KUISAT	Institute for Manufacturing Technology, Technische Universität Dresden	Germany			Short	Student
84	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	30	Processing of nano-scale texturing on stainless steel by laser interference	PROF. MASAKI YAMAGUCHI	Graduate School of Medicine, Science & Technology, Shinshu University	Japan			Short	
85	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	96	Super hydrophilic surface on Al2O3 ceramic fabricated by ultrafast laser	MR. ZHENGSEN WANG	Beihang University	China			Short	Student

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86	Session 11	Surface processing (Texturing, cleaning, annealing, modification, etc.)	193	Laser-assisted selective fabrication of copper traces on polymers by electroplating	MR. VITALIJ FIODOROV	Department of Laser Technologies, Center for Physical Sciences and Technology, Lithuania	Lithuania			Short	Student
87	Session 12	3D Micro/Nano Fabrication	202	Ultrafast laser fabricated 3D photonic components for manipulating spatial modes	PROF. ROBERT THOMSON	Heriot Watt University	UK	Invited			
88	Session 12	3D Micro/Nano Fabrication	45	Realization of structural modifications in pristine fused silica as a result of shock impact from the counter-propagating laser beams	MR. ARUNKRISHNAN RADHAKRISHNAN	Galatea Lab, STI/IMT, Ecole Polytechnique Fédérale de Lausanne (EPFL),	Switzerland		Full		Student
89	Session 12	3D Micro/Nano Fabrication	54	Self-assembled nanocrystals with YAG structure induced by femtosecond laser irradiation	DR. YASUHIKO SHIMOTSUMA	Department of Material Chemistry, Kyoto University	Japan		Full		
90	Session 12	3D Micro/Nano Fabrication	182	Three-dimensional micro-fabrication with optimized holographic reconstructions	MR. HONGHAO ZHANG	Center for Optical Research and Education (CORE), Utsunomiya University	Japan		Full		Student
91	Session 12	3D Micro/Nano Fabrication	46	Printing of amino acid homo-polymers by femtosecond laser direct writing	DR. DANIELA SERIEN	RIKEN and AIST	Japan		Full		
92	Session 12	3D Micro/Nano Fabrication	48	Femtosecond laser-assisted mould fabrication for metal microcasting	MR. ENRICO CASAMENTI	Galatea Laboratory, École Polytechnique Fédérale de Lausanne (EPFL), CH-2002 Neuchâtel,	Switzerland		Full		Student
93	Session 12	3D Micro/Nano Fabrication	88	Two-photon 3D printing assisted by spatiotemporal focusing for high-speed fabrication	MR. PAUL SOMERS	School of Mechanical Engineering, Purdue University; Birck Nanotechnology Center, Purdue University	USA		Full		Student
94	Session 12	3D Micro/Nano Fabrication	118	3D multi-photon lithography: dependence on laser irradiation wavelength	MR. EDVINAS SKLIUTAS	Laser Research Center, Faculty of Physics, Vilnius University, Saulėtekio Ave. 10, LT-10223 Vilnius,	Lithuania		Full		Student
95	Session 12	3D Micro/Nano Fabrication	125	Programmable shrinkage of two-photon polymerized materials for 3D micro-nano origami formation	MR. AOFEI MAO	University of Nebraska - Lincoln	USA		Full		Student
96	Session 12	3D Micro/Nano Fabrication	174	Multi-material 3D printing of multicolor photopolymers	MR. TAIKI MARUYAMA	Graduate School of Engineering Science, Yokohama National University	Japan		Full		Student
97	Session 12	3D Micro/Nano Fabrication	180	Development of 3D-printed micro-tweezers designed by topology optimization	MR. YUKIHITO MORITOKI	Graduate School of Engineering Science, Yokohama National University	Japan		Full		Student
98	Session 13	Advanced materials by pulsed laser deposition	189	Advances in epitaxial growth of complex oxides on silicon by Large Area Pulsed Laser Deposition	DR. RIK GROENEN	Twente Solid State Technology B.V.	Netherlands		Full		
99	Session 13	Advanced materials by pulsed laser deposition	192	In-situ laser interference assisting the AACVD growth of ZnO sub-micrometric structures	MR. SERGIO SANCHEZ MARTIN	Ceit-BRTA	Spain		Full		Student

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100	Session 13	Advanced materials by pulsed laser deposition	20	Nanoparticle generation of fluoropolymer CYTOP by holographic femtosecond laser processing and its cell culture application	MR. KEITA NAKAHIRA	Hirosaki University	Japan			Short	Student
101	Session 14	Direct writing	70	Precision and controllability of ultrafast laser processing over the spectrum	DR. DAVID GROJO	CNRS / Aix-Marseille Univ. - LP3 laboratory	France	Invited			
102	Session 14	Direct writing	208	Towards real world applications of ultrafast laser nanostructuring in transparent materials	PROF. PETER G. KAZANSKY	Optoelectronics Research Centre, University of Southampton	UK	Invited			
103	Session 14	Direct writing	18	Laser-Direct Writing of a Small and Sensitive Pressure Sensor by Laser-Induced Graphitization of PDMS	MR. SHUICHIRO HAYASHI	Keio University	Japan		Full		Student
104	Session 14	Direct writing	40	Laser Direct Writing of Electrically Conductive Graphitic Carbon on Cellulose Nanofiber using 522-nm Femtosecond Laser	MR. FUMIYA MOROSAWA	Keio University	Japan		Full		Student
105	Session 14	Direct writing	64	MXene in-plane micro-supercapacitor prepared by laser direct writing	PROF. AKIRA WATANABE	IMRAM, Tohoku University	Japan		Full		
106	Session 14	Direct writing	95	Applications of Laser Forward Transfer for Additive Manufacturing of Electronics	DR. ALBERTO PIQUE	U.S. Naval Research Laboratory	USA		Full		
107	Session 14	Direct writing	113	Femtosecond lasers coupled to advanced haptic feedback meet artistic expression	DR. JULIEN GATEAU	EPFL	Switzerland		Full		
108	Session 14	Direct writing	139	Multiphoton polymerization of cellulose nanofiber-reinforced hydrogel	PROF. MITSUHIRO TERAKAWA	Keio University	Japan		Full		
109	Session 14	Direct writing	144	Investigation of mechanism of Cu2O nanosphere bonding on metal thin films induced by irradiating femtosecond laser pulses	MR. SHOHEI MURAYAMA	Nagaoka University of Technology	Japan		Full		Student
110	Session 14	Direct writing	145	Vacuum-free Cu patterning using femtosecond laser reduction of CuO nanoparticles under inert gas injection	DR. MIZUE MIZOSHIRI	Nagaoka University of Technology	Japan		Full		
111	Session 14	Direct writing	169	Direct lasers writing of non-photosensitive materials using femtosecond laser microbubble-based assembly	DR. HIROAKI NISHIYAMA	Yamagata University	Japan		Full		
112	Session 14	Direct writing	190	β-BaB2O4 crystal-in-glass waveguides writing by femtosecond laser beam	DR. SERGEY LOTAREV	Mendeleev University of Chemical Technology, Miusskaya Sq. 9, Moscow 125047,	Russia		Full		
113	Session 14	Direct writing	201	Functional microstructures in nanoporous silicates matrices: concept, realization and testing	DR. ROMAN ZAKOLDAEV	ITMO University	Russia		Full		

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114	Session 14	Direct writing	155	Femtosecond laser-induced crystallization of Pb5Ge3O11 inside lead germanate glass	DR. TATIANA LIPATEVA	Mendeleev University of Chemical Technology, Miusskaya Sq. 9, Moscow 125047,	Russia			Short	
115	Session 15	Laser-induced forward transfer (LIFT) techniques	94	Laser Induced Forward Transfer of 2D materials and computational modelling studies	PROF. IOANNA ZERGIOTI	National Technica University of Athens	Greece	Invited			
116	Session 15	Laser-induced forward transfer (LIFT) techniques	52	DP-LIFT INDUCED NANOJETS	MS. ANJALI MURALI	UNIV AMU	France		Full		Student
117	Session 15	Laser-induced forward transfer (LIFT) techniques	187	Laser printing and sintering of viscous Ag nanoparticle inks for high aspect ratio conductive micro-patterns	DR. IOANNIS THEODORAKOS	National Technical University of Athens, Physics Department, Iroon Polytehneiou 9, 15780 Zografou, Athens,	Greece		Full		
118	Session 16	Beam shaping and related techniques	203	Super Resolution Optical Metrology for Advanced Manufacturing	DR. JEFF SQUIER	Colorado School of Mines	USA	Invited			
119	Session 16	Beam shaping and related techniques	90	In-system optimization of a hologram for beam shaping	MR. RYO ONODERA	Utsunomiya Univ. Center for Optics Research & Education	Japan		Full		Student
120	Session 16	Beam shaping and related techniques	141	Multi-beam processing with individually addressable beamlets: Calibration & data processing	MR. ALEXANDER MEYER	Fraunhofer Institute Laser Technology ILT	Germany		Full		
121	Session 16	Beam shaping and related techniques	163	Ultra short pulse laser delivery by low power loss hollow core fibers with TRUMPF's TruMicro lasers for industrial applications	MR. YOUSUKE NAKAMURA	TRUMPF Corporation	Japan		Full		
122	Session 16	Beam shaping and related techniques	183	Investigation of the interaction of the photonic wheel beam with chiral clusters of nanoparticles	MR. JUSTAS BERŠKYS	Coherent Optics Laboratory, Center for Physical Sciences and Technology (FTMC)	Lithuania		Full		Student
123	Session 16	Beam shaping and related techniques	191	Scanning Parallel Beam Method (SPBM) for Micro-Laser Grooving	MR. TOMONARI TANAKA	Center for Optical Research and Education (CORE), Utsunomiya Univ.	Japan		Full		Student
124	Session 16	Beam shaping and related techniques	200	Holographic ultraviolet nanosecond laser processing using adaptive optics	PROF. SATOSHI HASEGAWA	Center for Optical Research and Education (CORE), Utsunomiya University	Japan		Full		
125	Session 16	Beam shaping and related techniques	136	High-quality multiple beam splitting system for femtosecond micromachining	DR. ZHAOXIANG LIU	East China Normal University	China			Short	
126	Session 16	Beam shaping and related techniques	137	Automatic image analysis for processing marks in femtosecond Laser micromachining using concave and convex coefficient	MR. DAISUKE AOKI	Advanced Mechanical Engineering Course, Faculty of Advanced Engineering Control Engineering, National Institute of Technology (KOSEN), Nara College	Japan			Short	Student
127	Session 16	Beam shaping and related techniques	154	Transparent material laser processing with modified Bessel beams generated by relocated phase axicons	MR. ERNESTAS NACIUS	Coherent Optics Laboratory, Center for Physical Sciences and Technology (FTMC)	Lithuania			Short	Student

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128	Session 17	Process monitoring and control	16	New approach for monitoring a DLIP process using a combination of an infrared camera and a diffraction measurement system	MR. NIKOLAI SCHRÖDER	TU Dresden	Germany		Full		Student
129	Session 17	Process monitoring and control	25	Process monitoring in laser transmission welding of plastics by using deep learning algorithms	MR. NAM-PHONG NGUYEN	Fraunhofer Institute for Laser Technology ILT	Germany		Full		
130	Session 17	Process monitoring and control	86	In-process observation of femtosecond laser processing with induced acoustic waves	MR. TAKUMA MIURA	Center for Optical Research and Education (CORE)	Japan		Full		Student
131	Session 17	Process monitoring and control	119	Control of melting-solidification dynamics with arbitrary-waveform nanosecond pulses	MR. TSUBASA ENDO	The Institute for Solid State Physics, the University of Tokyo	Japan		Full		Student
132	Session 17	Process monitoring and control	198	In-process monitoring of structure depth using optical coherence tomography in femtosecond laser processing with line-shaped beam	PROF. SATOSHI HASEGAWA	Center for Optical Research and Education (CORE)	Japan		Full		
133	Session 18	Manufacture of micro devices and systems	31	Plasmonic Superlattice Fabricated by Laser Near-Field Reduction	DR. SHI BAI	RIKEN	Japan		Full		
134	Session 18	Manufacture of micro devices and systems	53	Femtosecond laser engraved grooves in a microfluidic channel for micro-particle separation	MR. TIANLONG ZHANG	1-Nara Institute of Science and Technology, Japan 2-School of Engineering, Macquarie University, Australia	Japan		Full		Student
135	Session 18	Manufacture of micro devices and systems	114	Ultrahigh Q lithium niobate microcavities fabricated by femtosecond laser	DR. JINTIAN LIN	SIOM, CAS	China		Full		
136	Session 18	Manufacture of micro devices and systems	156	Short-pulse laser-assisted fabrication of a hybrid Si-SiO2 microcooling device	DR. ALEXANDROS MOUSKEFTARAS	Aix Marseille University, CNRS, LP3, UMR7341, 13288 Marseille,	France		Full		
137	Session 18	Manufacture of micro devices and systems	111	On-chip microlaser and waveguide amplifiers on Er3+-doped thin film lithium niobate fabricated by femtosecond laser direct writing followed by chemomechanical polishing	DR. ZHIWEI FANG	East China Normal University	China			Short	
138	Session 19	Medical and biological applications	122	Fabrication of biodegradable tailor-made bone cartilage implants by TPA	DR. ALEXANDER KRUPP	Multiphoton Optics GmbH	Germany		Full		
139	Session 19	Medical and biological applications	87	Double pulse effect of fluidic modulation in water induced by femtosecond laser impulse	MR. RYOTA KIYA	Division of Materials Science, Nara Institute of Science and Technology 奈良先端科学技術大学院大学 先端科学技術研究科	Japan			Short	Student
140	Session 19	Medical and biological applications	107	Femtosecond laser processing of cells in zebrafish embryos for elucidating mechanical interaction between the cells	MR. KAITO HIRONAGA	Division of Material Science, Nara Institute of Science and Technology	Japan			Short	Student

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141	Session 19	Medical and biological applications	109	Femtosecond laser applications for patterning cultured cells and probing cellular mechanoresponses	MS. HANAKA UNO	Division of Materials Science, Nara Institute of Science and Technology	Japan			Short	Student
142	Session 19	Medical and biological applications	112	Mechanical response of cell sheets observed by a femtosecond laser impulse	MR. KOHEI TAKAO	Division of Materials Science, Nara Institute of Science and Technology	Japan			Short	Student
143	Session 20	Laser processing for electronic device fabrication	171	New and dissimilar material layer stack for foldable OLED displays processed with a high power UV picosecond laser	MR. JIM BOVATSEK	MKS Spectra-Physics Lasers	USA		Full		
144	Session 20	Laser processing for electronic device fabrication	214	Redefining reliability for industrial USP lasers	MR. ALDAS JURONIS	EKSPLA	Lithuania		Full		
145	Session 20	Laser processing for electronic device fabrication	91	Experimental comparison of infinite field technologies to standard stitching and on fly processes for large part processing	MR. SARUNAS VASKELIS	Direct Machining Control	Lithuania			Short	
146	Session 21	Additive Manufacturing	140	Femtosecond laser additive manufacturing using low diameter stainless steel powder	MR. IÑIGO RAMÓN-CONDE	Ceit	Spain		Full		Student
147	Session 21	Additive Manufacturing	212	Fabrication of pure copper rod by multi-beam laser metal deposition with blue diode lasers	MR. KAZUHIRO ONO	Graduate School of Engineering, Osaka University	Japan		Full		Student
148	Session 21	Additive Manufacturing	146	Defect formation in multi-laser powder bed fusion of near-alpha Ti-6.5Al-2Zr-Mo-V (TA15) alloy	DR. LI SHUHAN	Huazhong University of Science and Technology	China			Short	Student
149	Session 21	Additive Manufacturing	151	Semi-empirical joint correction in 3D double-arrowhead auxetic structure verified by selective laser melting	MR. XINQIANG LAN	Huazhong University of Science and Technology	China			Short	Student