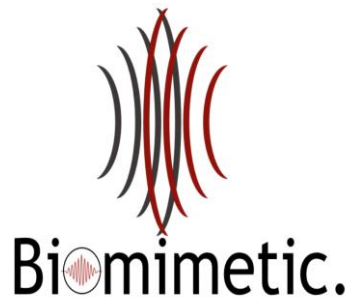


COLA 2024

Conference Program

17th International Conference on Laser Ablation
Hersonissos, Crete, Greece
September 29 – October 4, 2024
<https://cola2024.eventsadmin.com/>





COLA 2024

The 17th International Conference on Laser Ablation

CONFERENCE CHAIRS

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Godai MIYAJI, TUAT, Japan

Organized by:



September 29 – October 4
Creta Maris Resort, Hersonissos
Crete, Greece

<https://cola2024.eventsadmin.com/>

Venue Layout

The Creta Maris Beach Resort



COMMITTEES

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- K. Sugioka:** RIKEN, Japan
- A. Vertes:** George Washington Univ., USA
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COLA 2024
ORAL PRESENTATION
PROGRAM

Sunday, September 29th
WELCOME SESSION

WELCOME SESSION

17:00- 19:00	REGISTRATION
17:00- 19:00	CONFERENCE OPENING & WELCOME RECEPTION

Monday, September 30th ORAL SESSION		
OPENING SESSION		
8:30-9:00	REGISTRATION	
9:00-9:10	INTRODUCTION Maria Farsari Foundation for Research and Technology, Hellas	
9:10-10:00	PLENARY LECTURE Carlo Liberale KAUST, Kingdom of Saudi Arabia	
10:00-10:30	Amy S. Mullin (Invited) University of Maryland, United States	
10:30-11:00	Coffee Break	
	Session 1 – “Chair”	
11:00-11:30	Stephan Barcikowski (Invited) University of Duisburg-Essen, Germany	
11:30-11:50	Ikurou Umezu Konan University, Japan	A method to prepare size-controlled spherical nano/micro particles by pulsed laser ablation using inertial effects.
11:50-12:10	Mindaugas Gedvilas Lithuanian Academy of Sciences, Lithuania	Bi-stability control in extremely efficient laser ablation by MHz burst of femtosecond pulses: experiment, modeling, and applications.
12:10-12:30	Maximilian Spellauge Munich University of Applied Sciences HM, Germany	Unveiling the significance of spallation layer redeposition during ultrashort pulse ablation in liquid.
12:30 – 12:50	Junya Hattori University of Tokyo, Japan	Time-resolved measurement of stress field formed by femtosecond laser-induced stress waves in vitreous silica.
12:50-14:30	Lunch Break	

Session 2 – “Chair”		
14:30-14:50	Esther Rebollar Instituto de Química Física Blas Cabrera, CSIC, Spain	Characterization of TiO ₂ and ZnO nanoparticles and films generated by pulsed laser ablation: Application in photocatalysis of microplastics.
14:50-15:10	Evangelos Skoulas Biomimetic Company, Greece	Advancing Silica Laser Damage: Broadband Enhancement via Ultrafast Laser Nanostructuring.
15:10-15:30	Keisuke Takenaka Joining and Welding Research Institute, Osaka University, Japan	Mechanism of uniform LIPSS formation by two-color double femtosecond laser pulse irradiation on biomaterials.
15:30-15:50	Kernius Vilkevičius Center for Physical Sciences and Technology, Lithuania	Ultrashort laser pulse induction of diverse morphology nanostructures on thin films.
15:50-16:10	Chil-Chyuan Kuo Ming Chi University of Technology, Taiwan	Laser processing of cooling channel to improve cooling efficiency of rapid tool
16:10-16:40	Coffee break	
Session 3 – “Chair”		
16:40 -17:10	Alexandra Palla-Papavlu (invited) INFLPR , Romania	
17:10-17:30	Franziska Chalupa-Gantner TU Wien, Austria	Polymerization threshold at high scanning speeds for microstructures using 2-Photon Polymerization in 1, 2 and 3-dimensional conditions
17:30-17:50	Fabian Christ TU Darmstadt, Germany	Two Photon Polymerization for Inertial Fusion Energy Target Fabrication
18:00-20:00	POSTER SESSION 1	

Tuesday, October 1st
ORAL SESSION

Session 4 – “Chair”		
8:30-9:00	Marti Duocastella (Invited) Universitat de Barcelona, Spain	
9:00-9:20	Hugo Bruhier Jean Monnet University, France	Multiscale characterization of the wettability of fs-laser textured thin film metallic glasses surfaces
9:20-9:40	Masabumi Miyabe Japan Atomic Energy Agency, Japan	High resolution ablation fluorescence spectroscopy for remote isotopic analysis
9:40-10:00	Robin Uren University of Dundee, Scotland	A Universal Process for Reducing Secondary Electron Yield
10:00-10:20	Carlos Molpeceres Polytechnic University of Madrid, Spain	Laser Isolation of Circulating Tumoral Cells in Liquid Biopsy.
10:20-10:50	Coffee Break	
Session 5 – “Chair”		
10:50-11:20	Stefan Nolte (Invited) Friedrich-Schiller University, Jena	
11:20-11:40	Katharine Tibbetts Virginia Commonwealth University, USA	Chemical reactions induced by ultrashort pulsed laser ablation in organic liquids.
11:40-12:00	Stefano Orlando CNR-ISM, Italy	Thermal waves induced by ultrashort laser pulses in wide bandgap semiconductors.
12:00-12:20	Kavil Mehta Pandit Deendayal Energy University, India	Dynamics of laser ablation in liquid with confined target geometry.

12:20-12:40	Philipp Rebentrost Mittweida University, Germany	Fundamental investigations of metal matrix composite ablation using burst pulses.
12:40-14:20	Lunch Break	
	Session 6 – “Chair”	
14:20-14:50	Jianhua Hao (Invited) The Hong Kong Polytechnic University, China	
14:50-15:10	Dominyka Stonyte Vilnius University, Lithuania	Precision manipulation of surface machining at the nanoscale utilizing the fs-UV interference method.
15:10-15:30	Ruoheng Zhang University of Alberta, Canada	Incubation effect dynamics of silicon irradiated by violet and near-infrared ultrashort laser pulses.
15:30-16:00	Coffee Break	
	Session 7 – “Chair”	
16:00-16:20	Heinz Huber Munich University of Applied Sciences, Germany	How can time-resolved experiments contribute to a validated model of ultrashort pulse laser ablation?
16:20-16:40	Mykolas Karpavičius Light Conversion	Machining of through-glass vias (TGVs) with femtosecond laser GHz burst modes
16:40-17:00	Alexander Horn Mittweida University, Germany	Reconstruction of the ablation of thin gold films induced by ultrafast laser radiation.
17:00-17:20	Johannes Heitz Johannes Kepler University Linz, Austria	Laser-induced periodic surface structures as substrates for Schwann cells alignment and oriented nanofiber collection.
17:20-17:40		
17:40-18:00		
18:00-20:00	POSTER SESSION 2	

Wednesday, October 2nd
ORAL SESSION

Session 8 – “Chair”		
8:30-9:00	Koji Sugioka (Invited) RIKEN, Japan	
9:00-9:20	Ernest Marti Jerez Universitat de Barcelona, Spain	Adding 3D shape control in LIFT with print-n-release
9:20-9:40	Christos Boutopoulos University of Montreal, Canada	In-situ laser-assisted bioprinting of corneal pro-regeneration biomaterials
9:40-10:00	Daniela Serien National Institute of Advanced Industrial Science and Technology (AIST), Japan	Free-Form Fabrication of Proteinaceous Wireframe 3D Structures by Femtosecond Laser Direct Write
10:00-10:20	Marina Makrygianni National Technical University of Athens, Physics Department, Hellas	LIFT of metallic interconnections and solder materials for the digital bonding in photonic applications
10:20-10:50	Coffee Break	
Session 9 – “Chair”		
11:00-11:45	PLENARY LECTURE Hidetoshi KATORI University of Tokyo, Japan	
11:40-12:00	Andrei Kabashin Aix Marseille Univ, CNRS, France	Femtosecond laser-ablative synthesis of functional nanomaterials for biomedicine and energy
12:00-12:20	John Fourkas University of Maryland, USA	Laser ablation of 2D materials: Mechanistic characterization and applications in nanophotonics
12:20-12:40	Nazar Farid University of Galway, Ireland	Large area flexible conductive scaffolds by direct laser writing

12:40 – 13:00	Irene Solana Optics Institute "Daza de Valdés", CSIC, Spain	Femtosecond laser interference patterning for highly accurate material structuring
13:00-14:40	Lunch Break	
14:40-9:00	Excursion & Reception	

Thursday, October 3 rd ORAL SESSION		
Session 10 – “Chair”		
8:30-8:50	Alex Capelle GREMI – CNRS, France	Thermo-mechanical model of CO2 laser-induced damages on decorative glass
8:50-9:10	Leonid V. Zhigilei University of Virginia, USA	Atomistic modeling of generation of defect-rich nanoparticles by short pulse laser ablation and processing in liquid
9:10-9:30	Arash Rahimi-Iman Justus-Liebig- Universitaet Giessen, Germany	Machine-Learning-Based Optimization of Chiral Photonic Metasurface: Evolution- and Neural-Network-Based Designs for Printing or Ablating
9:30-9:50	Jean-Philippe Colombier Université Jean Monnet, CNRS,France	Deciphering the complexity behind laser-induced self-organized nanopatterns
9:50- 10:10	Inka Manek-Hönniger Université de Bordeaux- CNRS-CEA, France	Advances in micromachning for through via drilling with femtosecond laser operating in burst-mode
10:10-10:30	Gonzalo Gómez Muñoz Laser Processing Group (LPG), IO–CSIC, C, Spain	Electrical and Optical Anisotropies induced by fs-LIPSS generation in FTO commercial films
10:30-11:00	Coffee Break	
Session 11 – “Chair”		
11:00-11:50	PLENARY LECTURE Vasilis Ntziachristos Institute for Biological and Medical Imaging, Germany	
11:50-12:10	Ivan Chapalo Munich University of Applied Sciences HM, Germany	Bragg gratings inscription in polypropylene light pipes using different laser sources.

12:10-12:30	Shota Ui Tokyo University of Technology, Japan	Investigation of an AI to Suggest Scanning Paths for Uniform Temperature Distribution in the Selective Laser Thermoregulation Method
12:30-12:50	George D. Tsibidis Foundation for Research and Technology (FORTH), Greece	Controlling the damage threshold of Si with SiO ₂ coatings upon irradiation with Mid-IR femtosecond laser pulses
12:50-14:30	Lunch Break	
14:30 -15:00	Wilhelm Pfleging (Invited) Karlsruher Institut für Technologie, Germany	
15:00-15:20	Ayesha Sharif University of Galway, Ireland	Phase tuned, highly conductive graphene by ultra-short laser irradiation of PEEK
15.20-15.40	Michel Meunier Polytechnique Montréal, Canada	Fundamentals and Applications of Pulsed Laser Gene and Drug Delivery from Lipid Nanoparticles containing Gold Nanoparticles
15.40-16.00	Emmanuel Haro- Poniatowski Autonomous Metropolitan University Iztapalapa Unit, Mexico	Preparation and characterization of imidacloprid nanoribbons by laser fragmentation/exfoliation in liquid media
16:00-16:30	Coffee break	
16:30-16:50	Anastasios Nikolaos Raikidis Foundation for Research and Technology (FORTH), Greece	AI-driven acoustic monitoring of laser cleaning interventions
16:50-17:10	Kaname Imokawa Komatsu, Japan	Demonstration of low contact resistance in SiC using high repetition rate KrF excimer laser irradiation
17:10-17:30	Yudai Mizuno Fukuoka Institute of Technology, Japan	Photoluminescence imaging of YAG:Ce particles generated by laser ablation in liquid PDMS
17:30-17:50	Jan Lancok Institute of Physics CAS, Czech Republic	Defect tailoring in CuI film produced by pulsed laser deposition based on plasma diagnostic techniques
18:00-20:00	POSTER SESSION 3	

Friday, October 4th ORAL
SESSION

Session 12 – “Chair”		
8:30-8:50	Saulius Juodkazis Swinburne University of Technology, Australia	Large area mask writing with fs-laser pulses
8:50–9:10	Francisco Gontad AIMEN, Spain	Parallel 3D microfabrication using a SLM display
9:10-9:30	Artur Andrishak International Iberian Nanotechnology Laboratory, Portugal	Suspended 3D Printed Polymer Waveguides for On-Chip Photonic Interconnects
9:30-9:50	Makoto Nakajima Osaka University, Japan	Terahertz free electron laser induced periodic surface structures on Ge ₂ Sb ₂ Te ₅
9:50-10:10	Davide Orecchia Politecnico di Milano, Italy	Femtosecond Pulsed Laser Deposition as a universal tool for nanofoam synthesis
10:10-10:30	Xitong Xie University of Ottawa, Canada	Laser Machining of Free-Standing Silicon Nitride Membranes.
10:30-11:00	Coffee Break	
Session 13 – “Chair”		
11:00-11:20	Yusaku Kawarazaki Tokyo University of Technology, Japan	Development of Feedback System for Uniform Temperature Distribution in the Selective Laser Thermoregulation System.
11:20-11:40	Sathiesh Kumar V MIT Campus, Anna University, India	Slit-LIBS: A Novel Strategy to Improve the Efficiency of Soil Nutrient Measurement from a Stand-off Distance.

11:40-12:00	Sebastiano Trusso IPCF – CNR, Italy	Fabrication of low-cost recycled-paper based SERS sensors by pulsed laser deposition of nanostructured silver and gold thin films
12:00-12:20	Stephan Gräf Friedrich Schiller University Jena, Germany	Unveiling the formation process of laser-induced periodic surface structures on stainless steel using ion implantation
13:30-14:00	Awards & Closing	

COLA 2024
POSTER PRESENTATION
PROGRAM

POSTER SESSION 1

Monday, September 30, 2024

101	Godai Miyaji <i>Tokyo University of Technology, Japan</i>	Surface nanostructuring by short-range propagating surface plasmon excited with few-cycle femtosecond laser pulses
102	Panagiotis Loukakos <i>IESL-FORTH, Greece</i>	Laser-nanostructured electrodes for enhanced Hydrogen Evolution Reaction
103	Luisa D'Urso <i>University of Catania, Italy</i>	MoS2 structures modified by laser irradiation for semiconductor-SERS sensing
104	Eulàlia Puig Vilardell <i>Vilnius University, Lithuania</i>	3D Photonic Crystal for Rainbow Trapping Fabricated via Two-Photon Lithography
105	Maria Anna Chliara <i>NTUA, Greece</i>	Laser bioprinting of 3D structures in organ on chip devices
106	Michalis Stavrou <i>IESL – FORTH, Greece</i>	Indane-1,3-dione-based push-pull dyes as low fluorescent and highly efficient photoinitiators for free radical polymerization
107	Florence Garrelie <i>CNRS, France</i>	Oxidation of metals during topographic functionalization upon ultrafast laser irradiation
108	Ioannis Liontos <i>IESL – FORTH, Greece</i>	THz beam profile shaping through linear and nonlinear superposition of two-color laser filaments
109	David Redka <i>Munich University of Applied Sciences, Germany</i>	Local Versus Global: Rethinking Incubation in Ultra-Short Pulse Laser Ablation
110	Yasutaka Hanada <i>Hirosaki University, Japan</i>	LIPSS formation on transparent material by laser-induced plasma-assisted ablation (LIPAA) and its fundamental characteristics
111	Ignacio Lopez-Quintas <i>Aplicaciones del Láser y Fotónica, Spain</i>	Second Harmonic Nonlinear Microscopy as a diagnostic tool for fs-laser fabrication of photonic structures
112	Yuhai Li <i>Research Center of Laser Fusion, China</i>	Study on the degradation of high reflection film performance induced by stray light irradiation of CFRP in high-power continuous laser facilities
113	Laura Gemini <i>ALPhANOV, France</i>	Fs-laser scalpel for high-precision damage-free bone ablation
114	Rida Ahmed <i>University of Ljubljana, Slovenia</i>	Influence of MHz bursts on the ablation efficiency of thin metal foils

115	Hsin-Yi Tsai National Applied Research Laboratories, <i>Taiwan</i>	Investigating the Impact of Ultraviolet Laser Parameters on the Surface Characteristics of Silicon Carbide (SiC) Substrates
116	Denys Miakota <i>Technical University of Denmark, Denmark</i>	Femtosecond UV laser enhancement of silver nanowires based transparent conductive electrodes
117	Takuma Hamachi <i>Kyushu University, Japan</i>	Formation of ultra-low dielectric constant film by non-thermal laser deposition
118	Stefan Irimiciuc <i>Czech Academy of Sciences, Czechia</i>	Insight into pulsed laser deposition of selected oxynitride system. Oxidation control via plasma diagnostic tools
119	Leon Geiger <i>Karlsruhe Institute of Technology, Germany</i>	Laser-Induced Crystallization: Enhanced predictability of urea crystallization by optimized laser repetition rate
120	Krzysztof Dzierzega <i>Jagiellonian University, Poland</i>	Exploring nonlinear optical effects in NV-doped diamond
121	Ciro D'Amico <i>Jean Monnet University, Saint-Etienne, France</i>	Ultrafast laser induced anisotropic carrier transport dynamics in smooth and surface pre-structured crystal semiconductors, detected by terahertz pulses
122	Sang-Ho Nam <i>Mokpo National University, Republic of Korea</i>	Classification of Soybean Paste Using Laser-Induced Breakdown Spectroscopy and k-Nearest Neighbors Analysis
123	Hsin-Yi Tsai <i>National Applied Research Laboratories, Taiwan</i>	Ultraviolet Laser-Assisted Micropattern Fabrication and its Impact on Viral Activity Inhibition under Electrical Stimulation
124	Denys Miakota <i>Technical University of Denmark, Denmark</i>	The use of femtosecond UV laser for selective layer processing of CIGS thin-film solar cells
125	Carla Raquel Fontana <i>São Paulo State University, Brazil</i>	Treatment of Gingival Melanin Pigmentation by CO ₂ and Nd:YAG laser ablation
126	Vincenzo De Michele <i>Université Jean Monnet, France</i>	Time resolved mid-infrared absorption in silica: ultrafast heat transfer observed by direct probing of anharmonic vibrations
127	Tatsunori Shibuya <i>National Institute of Advanced Industrial Science and Technology, Japan</i>	Selective laser assisted chemical etching of aluminum nitride
128	Christoph Rehbock <i>University of Duisburg-Essen, Germany</i>	The Size and Composition-dependent Mechanisms of High-Entropy-Alloy Nanoparticle Formation by Laser Ablation in Liquids
129	Cleber Mendonca <i>IFSC/USP, Brazil</i>	Femtosecond direct laser writing for fabricating structures with NV centers
130	Masayuki Kakehata <i>National Institute of Advanced Industrial Science and Technology (AIST), Japan</i>	Laser-induced periodic surface structures on titanium alloy and zirconia ceramics formed by irradiation of femtosecond two-color double-pulse sequences
131	Grigorios Boulogiannis <i>Fraunhofer Institute for Solar Energy Systems (ISE), Germany</i>	Characterization of the Nonlinear Optical Properties of Glass Using the Z-scan Technique for Advancing Laser-Glass Processing in Photovoltaics
132	Hidehiko Yashiro <i>National Institute of Advanced Industrial Science and Technology (AIST), Japan</i>	Adhesion strength of hydroxyapatite layer on zirconia substrates coated by droplets eliminated type pulsed-laser deposition

133	Nadjib Semmar <i>GREMI - CNRS - Université d'Orléans, France</i>	LIPSS formation on soda-lime glass by femtosecond laser beam : effect of repetition rate with two different wavelengths (1030nm and 515 nm)
134	Stavroula Elezoglou <i>National Technical University of Athens, Greece</i>	Laser induced forward transfer of cells towards engineered grafts
135	Andrew Hainer <i>University of Ottawa, Canada</i>	Laser modification of polymer-embedded metal nanorods for plasmonic colour picture generation
136	Alexander Bulgakov <i>HiLASE Centre, Institute of Physics CAS, Czech Republic</i>	Incongruent and delayed evaporation of multicomponent materials: Manifestations in laser-ablation plumes
137	Valentina Dinca <i>University of Bucharest, Romania</i>	Alteration in the pathophysiology of the foreign body response by surface chemistry and topography modification induced by laser methods for breast implant applications
138	Jiawei Zhang <i>RIKEN Center for Advanced Photonics, Japan</i>	Rapid Fabrication of Numerous Glass Micro-Channels by Ultrafast Bessel Beam for Cell Migration Assay
139	Reza Nekouie Esfahani <i>Manufacturing Technology Centre, UK</i>	Three-Dimensional (3D) Laser-Induced Surface Metallisation for the Fabrication of 3D Printed Electronics
140	David Girard <i>University of Ottawa, Canada</i>	Silver (I) Oxide and Silver (I, III) Oxide Formation via Femtosecond Laser Micromachining
141	Masoud Mahjouri-Samani <i>Auburn University, USA</i>	Inkless Printing Multimaterial Electronics – A Laser-Based Additive Nanomanufacturing Approach
142	Inam Mirza <i>HiLASE Centre, Institute of Physics of the Czech Academy of Sciences, Czechia</i>	Non-thermal regimes of laser annealing of semiconductor nanostructures
143	Philipp Maack <i>Ruhr-University Bochum, Germany</i>	Underwater femtosecond laser micromachining of porous transport layers for electrolysis applications
144	Shu Hayashi <i>Princeton University, USA</i>	Laser direct writing of carbon complexes from polymeric precursors by laser-induced graphitization
145	Jan Marx <i>Applied Laser Technologies, Ruhr University Bochum, Germany</i>	Reflectance investigation on ultrashort pulsed laser generated surface microstructures
146	Maria Pervolaraki <i>IESL – FORTH, Greece</i>	Laser Sintering: Igniting Innovation Across Sensing, Automotive, and Space
147	Mangirdas Malinauskas <i>Laser Research Center, Faculty of Physics, Vilnius University, Lithuania</i>	Synthesis and study of YAG:Ln for multiphoton 3D lithography
148	Hidehiko Yashiro <i>National Institute for Advanced Industrial Science and Technology (AIST), Japan</i>	Transmission electron microscope measurement of the hydroxyapatite layers coated by droplets eliminated type pulsed-laser deposition
149	Shigeki Matsuo <i>Shibaura Institute of Technology, Japan</i>	Possibility of fabricating tetragonal periodic surface structures using circularly-polarized laser pulses
150	Simon Jelinek <i>FZU - Institute of Physics, Czech Academy of Sciences, Czechia</i>	Ablation damage characterizes non-Gaussian beam profiles – extension of Liu's method

151	Nadjib Semmar <i>GREMI - CNRS - Université d'Orléans, France</i>	LIPSS formation on soda-lime glass by femtosecond laser beam : effect of repetition rate with two different wavelengths (1030nm and 515 nm)
152	Stavroula Elezoglou <i>National Technical University of Athens, Greece</i>	Laser induced forward transfer of cells towards engineered grafts
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160	Inam Mirza <i>HiLASE Centre, Institute of Physics of the Czech Academy of Sciences, Czechia</i>	Non-thermal regimes of laser annealing of semiconductor nanostructures
161	Philipp Maack <i>Ruhr-University Bochum, Germany</i>	Underwater femtosecond laser micromachining of porous transport layers for electrolysis applications
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164	Maria Pervolaraki <i>IESL – FORTH, Greece</i>	Laser Sintering: Igniting Innovation Across Sensing, Automotive, and Space
165	Mangirdas Malinauskas <i>Laser Research Center, Faculty of Physics, Vilnius University, Lithuania</i>	Synthesis and study of YAG:Ln for multiphoton 3D lithography
166	Hidehiko Yashiro <i>National Institute for Advanced Industrial Science and Technology (AIST), Japan</i>	Transmission electron microscope measurement of the hydroxyapatite layers coated by droplets eliminated type pulsed-laser deposition
167	Shigeki Matsuo <i>Shibaura Institute of Technology, Japan</i>	Possibility of fabricating tetragonal periodic surface structures using circularly-polarized laser pulses

151	Tien-Li Chang <i>Department of Mechatronic Engineering, National Taiwan Normal University, Taiwan</i>	Ultrafast Laser Induced Bio-Inspired Metallic Structures for Biological Response
152	Tatsuki Nakayama <i>Graduate School of Science and Technology, Nihon University, Japan</i>	Development of visible light responsive TiO ₂ photocatalyst with highly oriented gold nanoislands fabricated by PLD
153	Keitaro Shimada <i>The University of Tokyo, Japan</i>	Portable STAMP with thin-plate-based spectral broadening for picosecond single-shot imaging in laser ablation systems
154	Esther Rebollar <i>Instituto de Química Física Blas Cabrera, CSIC, Spain</i>	Modification of polymers wettability by laser irradiation with nanosecond and femtosecond pulses
155	Nicolas Thomae <i>Munich University of Applied Sciences HM, Germany</i>	Impact of Topography and Thermophysical Properties on Multi-Shot LIPSS Generation
156	Linda Pabst <i>Laserinstitute Hochschule Mittweida, Germany</i>	High rate laser polishing using a polygon scanner
157	Raphaëlle Escoube <i>Institut de Radioprotection et de Sûreté Nucléaire (IRSN), PSE-SANTE/SESANE/LRSI, France</i>	Multi points Calibration for Laser Ablation/ICP-MS imaging of biological tissues
158	Vita Petrikaitė <i>Center for physical sciences and technology (FTMC), Italy</i>	Nanosecond Laser Synthesis of Tunable Bimetallic Au-Ag Nanoparticle Substrates for SERS Applications
159	Wojciech Talik <i>Jagiellonian University in Cracow, Poland</i>	Upconversion luminescence in Er-doped tellurite-phosphate glass during crystallization with femtosecond laser pulses
160	Peter Balling <i>Aarhus University, Denmark</i>	Femtosecond laser ablation of free-standing Al ₂ O ₃ thin films

POSTER SESSION 2

Tuesday, October 1, 2024

201	Michalis Stavrou <i>IESL – FORTH, Greece</i>	Remarkable Nonlinear Optical Response of non van der Waals 2D Hematene and Magnetene Nanoplatelets Exfoliated from Mineral Ores Using a Green Synthesis Method for Ultrafast Photonic Applications
202	Carlos Esteban Cifuentes Quintal <i>Aix Marseille Univ, CNRS, France</i>	Exploring laser ultra-fast ablation techniques on UO ₂ : Advancements in Nuclear Fuel Micro-Machining
203	Laura Loi <i>ALPhANOV, France</i>	Laser-based surface functionalization of transparent materials by Direct Laser Interference Patterning technique
204	Béla Hopp <i>University of Szeged, Hungary</i>	Surface darkening of different metals using nanosecond pulsed laser ablation
205	Motoaki Nakatsutsumi <i>European XFEL, Germany</i>	Grazing-incidence XFEL scattering to study ultrafast surface ablation and nano-structuring dynamics
206	Hanan Mir <i>Fraunhofer Institute for Solar Energy Systems, Germany</i>	High-Speed Ultrashort Pulse Laser Dicing of 4H-SiC via Polygon Scanner
207	Nadezhda Bulgakova <i>HiLASE Centre, Institute of Physics CAS, Czech Republic</i>	Volumetric modification of fused silica with double laser pulses: the effect of pulse separation on energy deposition
208	Yoshihiro Iwata <i>Japan Atomic Energy Agency, Japan</i>	Gadolinium ion emission in a water Cherenkov detector
209	Florin Andrei <i>National Institute for Laser, Plasma and Radiation Physics, Romania</i>	Strain engineering of epitaxial perovskite-based heterostructures for efficient photoelectrochemical water splitting
210	Joerg Schille <i>Laserinstitut Hochschule Mittweida, Germany</i>	High-efficient ultrashort pulse laser ablation in the long burst GHz pulse regime
211	Eugenia Bosler <i>Technische Universität Berlin, Germany</i>	Influence of Material and Process Interactions in Two-Photon Polymerization: Application-Oriented Methods for Resolution Analysis
212	Matthias Domke <i>Vorarlberg University of Applied Sciences, Austria</i>	One-shot imaging of laser-induced surface acoustic waves on silicon and metal films using pump-probe microscopy

213	Gonzalo Gómez Muñoz <i>Laser Processing Group IO-CSIC, Spain</i>	Controlled Formation of Spike-Like Structures in Silicon by fs-Laser Processing for Enhanced Light Absorption
214	Francisco Gontad <i>AIMEN Laser Technology Centre O Porriño, Spain</i>	Parallel laser texturing with Diffractive Optical Elements for friction reduction in pistons
215	Antonios S. Valavanis <i>University of Virginia, USA</i>	Dynamics of Laser-Induced Phase Explosion in Ag Films: Insights from Atomistic Simulations and Optical Imaging
216	Anna Münzer <i>Fraunhofer Institute for Solar Energy Systems ISE, Germany</i>	Annealing of TCO Thin Films on Temperature-Sensitive Solar Cells with Short and Ultrashort UV Laser Pulses
217	Pol Sopeña <i>Aix-Marseille Université, CNRS, LP3, France</i>	Semiconductors laser writing by multiphoton-initiated nanosecond mid-infrared pulse absorption
218	Peter Gregorcic <i>University of Ljubljana, Faculty of Mechanical Engineering, Slovenia</i>	Ablation of metal surfaces by low-fluence laser pulses in different gas atmospheres
219	Shih-Feng Tseng <i>National Taipei University of Technology, Taiwan</i>	Characteristic investigation of laser thermal oxidation treatment for maskless marking QR codes on SS316 and Ti-64 surfaces
220	Yonghoon Lee <i>Mokpo National University, Republic of Korea</i>	Classification of Kimchi using Laser-Induced Breakdown Spectroscopy and k-Nearest Neighbors Modeling
221	Nils Schott <i>Institute of Nuclear Physics, Germany</i>	Laser micromachining for proton fast ignition laser fusion target fabrication
222	Laimis Zubauskas <i>Center for Physical Science and Technology (FTMC), Lithuania</i>	Top-down ablation of fused silica by BiBurst femtosecond laser
223	Miglė Mackevičiūtė <i>Center for Physical Sciences and Technology, Lithuania</i>	Soda-lime glass machining with GHz bursts using a bottom-up technique
224	Keita Katayama <i>Kyushu University, Japan</i>	Localized and shallow laser doping by excimer laser annealing
225	Johannes Roth <i>University Stuttgart, Germany</i>	Novel excitation-induced non-thermal effects and ablation mechanisms in silicon from atomistic simulations with a thermal spike model
226	Yury Ryabchikov <i>HiLASE Centre, Institute of Physics of the Czech Academy of Sciences, Czechia</i>	Laser Synthesis and Heating of Semiconductor-Based Nanocomposites with Tuned Plasmonic Properties
227	Kuder Aiyzyh <i>Prokhorov General Physics Institute of the Russian Academy of Sciences, Russia</i>	Laser assisted synthesis of boron nanoparticles
228	Stephen Dondieu <i>The Manufacturing Technology Centre, UK</i>	Laser micro-hole drilling of thin titanium foil and felt for proton exchange membrane water electrolyser application.
229	Malek Tabbal <i>American University of Beirut (AUB), Lebanon</i>	Fluence dependence of LIPSS formation and orientation on Gd-doped Ceria thin films

231	Stephane Guizard <i>Laboratoire Interactions Dynamiques et Lasers, CEA, Université Paris-Saclay, France.</i>	Femtosecond and subfemtosecond carrier dynamics in wide-band gap dielectrics.
232	Lasse Bienkowski <i>Fraunhofer Institute for Solar Energy Systems ISE, Germany</i>	Utilizing Transient Effects for Ablating Glass Using Combined Picosecond and Nanosecond Laser Pulses
233	Shuntaro Tani <i>The Institute for Solid State Physics, Japan</i>	Mid-infrared light emission during laser ablation
234	Hiroshi Yoshikawa <i>Osaka University, Japan</i>	High-Speed Polarization Imaging of Laser Ablation-Induced Crystallization of Ice in Supercooled Water
235	Ecem Demir <i>Ruhr University Bochum, Germany</i>	Process Simulation and Development for Laser Beam Welding with Rotating Bifocal Optics
236	Emmanuel Haro-Poniatowski <i>Departamento de Física, Universidad Autónoma Metropolitana Iztapalapa, Mexico</i>	Au Nanostructured glasses fabricated simultaneously by PLD and Sol-Gel techniques.
237	Thibault Derrien <i>Institute of Physics of the Czech Academy of sciences, Czechia</i>	Linear absorption of single-layer graphene deposited on quartz: density-functional tight binding vs optical measurements
238	Ankit Das <i>Princeton University, USA</i>	Mitigating undulations via external electric fields in laser powder bed fusion
239	Dalila Fontana <i>Università Campus Bio-Medico di Roma, Italy</i>	Light-mediated Processes to Selectively Biofunctionalize 2PP 3D Microstructures
240	Stefano Orlando <i>CNR-ISM, Italy</i>	Surface electrical conductivity variations induced by ultrashort laser pulses in wide bandgap semiconductors
241	Markéta Janková <i>University of West Bohemia, Czechia</i>	Room-temperature reactive interactions between transition metal monoxides and silicon monoxide sols generated by laser ablation in liquid leading to the formation of silicides and silicates
242	Tomáš Křenek <i>University of West Bohemia, Czechia</i>	Newly discovered potentials of laser ablation in liquids for energy-saving formation of solar light-driven photocatalytic materials
243	MiHye Kim <i>LG Electronics Production engineering Research Institute, South Korea</i>	Study of Selective Laser-induced Etching for Micro-hole Formation in Glass using a Bessel Beam
244	Mehdi Abedi-Varaki <i>FTMC - Center for Physical Sciences and Technology, Lithuania</i>	Density effect on the electron acceleration by Bessel-Gauss laser beam from a laser wakefield accelerator
245	Esther Rebollar <i>Seoul National Instituto de Química Física Blas Cabrera, CSIC, Spain</i>	Modification of polymers wettability by laser irradiation with nanosecond and femtosecond pulses
246	Tobias Held <i>Department of Physics and Research Center OPTIMAS, RPTU Kaiserslautern-Landau, Germany</i>	Band-resolved relaxation of laser-excited gold
247	Caterina Gaudioso <i>National Research Council (CNR), Institute for</i>	LIPSS generation with bursts of femtosecond pulses for controlling the wettability of copper

	<i>Photonics and Nanotechnologies (IFN), Italy</i>	
248	Jean-francois GLEYZE <i>CEA-CESTA, Bordeaux, France</i>	CO2 laser ablation process for laser induced-damage mitigation of fused silica optics for LMJ
249	Nastaran Hayatiroodbari <i>Joanneum Research Forschungsgesellschaft mbH, Austria</i>	Pulsed laser ablation processes in photovoltaics
250	Paulius Gečys <i>Center for Physical Sciences and Technology (FTMC), Lithuania</i>	Polarization controlled crack propagation in Bessel beam processing of soda-lime glass
251	Oliver Dubnack <i>Friedrich-Schiller-Universität Jena, Germany</i>	Mechano-responsive wetting of fs-laser-structured PDMS surfaces
252	Falko Jahn <i>Laserinstitut Hochschule Mittweida, Germany</i>	Investigations on various approaches in order to reduce droplet incorporation into films produced by Pulsed Laser Deposition
253	Jijil JJ Nivas <i>University of Naples Federico II, Italy</i>	Influence of ambient pressure on LIPSS formation in silicon
254	Modestas Sadauskas <i>FTMC – Center for Physical Sciences and Technology, Lithuania</i>	Metal micro mesh electrode formation on transparent dielectric surface using Selective Surface Activation Induced by Laser technology
255	Sena Maru <i>Waseda University, Japan</i>	Dynamics observation of pressure waves during femtosecond laser irradiation in amorphous silica glass
256	Nicolas Sanner <i>Aix Marseille Univ., CNRS, LP3, France</i>	Towards laser-fabricated nanophotonic structures in bulk glass
257	Andrius Žemaitis <i>Center for Physical Sciences and Technology (FTMC), Lithuania</i>	Femtosecond bursts advancing ablation efficiency and quality of metals
258	Antonio Brancato <i>University of Study of Catania, Italy</i>	Study of magnetic nanoparticles obtained by Laser ablation of Mount Etna volcanic rocks
259	Misa Beppu <i>Kyushu University, Japan</i>	Sn doping into β -Ga ₂ O ₃ by a KrF excimer laser

POSTER SESSION 3

Thursday, October 3, 2024

301	Meenu M S <i>Cochin University of Science And Technology, India</i>	Femtosecond Laser Written Polymer Micro-Scaffolds for Tissue Engineering
302	Kevin Lubig <i>Friedrich Schiller University Jena, Germany</i>	Investigation of contact friction on material surfaces nanostructured with fs-lasers
303	Bogusz Stepak <i>Fluence, Poland</i>	Enhancing metal processing efficiency with femtosecond fiber laser: drilling, deep engraving, cutting, and polishing
304	Christos Boutopoulos <i>University of Montreal, Canada</i>	Modeling and optimization of NIR photothermal immunotherapy for melanoma treatment
305	Lucrezia Catanzaro <i>University of Catania, Italy</i>	Tuning the Aggregation of Metal Nanoparticles prepared by Laser Ablation with Halide Salt solutions
306	Markus Uehlein <i>Department of Physics and Research Center OPTIMAS, RPTU Kaiserslautern-Landau, Germany</i>	Tracing non-thermal electrons in laser-excited metals with an extended two-temperature model

307	Yu-Hsuan Lin <i>National Applied Research Laboratories, Taiwan</i>	Enhancement of hydrophobicity and biocompatibility in embedded pressure sensor through laser surface modification
308	Wolfgang Husinsky <i>Technische Universität Wien, Austria</i>	Simulations of Ripple Formation under Ultra short Laser Pulses – A try
309	Sharath Rameshbabu <i>Swiss Federal Laboratories for Materials Science and Technology (Empa), Switzerland</i>	Pulsed laser deposition of Ho ₂ O ₃ thin films for Nano-Photonics
310	Simon Kümmel <i>Institute for Functional Matter and Quantum Technologies, Germany</i>	Investigation of excitation-induced non-thermal effects in semiconductors, metals and alloys
311	Mark Braun <i>German Aerospace Center (DLR), Institute of Quantum Technologies, Germany</i>	Fiber-based pulsed laser ablation setup for the release of neutral atoms within an ultra-high vacuum chamber
312	Hendrik Wrigge <i>Institut für Nanophotonik Göttingen, Germany</i>	Broadband pump probe setup for ultrafast transient reflectivity measurements
313	Angela De Bonis <i>Dipartimento di Scienze, Università della Basilicata, Italy</i>	Tailored Nanozyme Composite Materials via Laser Ablation in Liquid: Towards Enhanced Photocatalytic and Antimicrobial Capabilities
314	Makoto Nakajima <i>Osaka University, Japan</i>	Laser processing of organic wood-plastic composite materials
315	Anu Avarachan <i>Cochin University of Science and Technology, India</i>	Time-Resolved Wollaston Interferometry for Laser-produced Plasma Characterization
316	Salvatore Almviva <i>ENEA, Italian National Agency for New Technologies, Italy</i>	LIBS spectroscopy for Biological threats
317	Xuan Wang <i>Wuhan University, China</i>	Surface Enhanced Raman Scattering Studies of Femtosecond Laser Written Ripple-like Nanostructures in Air and Vacuum
318	George Perrakis <i>IESL – FORTH, Greece</i>	Hybrid electromagnetic surface modes impact on low spatial frequency LIPSS formation and periodicity reduction
319	Antonio Santagata <i>CNR-ISM, Italy</i>	LIPSS for Li-less lithium metal negative electrodes of secondary aprotic batteries

320	Panagiotis Konstantakis <i>IESL – FORTH, Greece</i>	Retrieving Optical Information in Nonlinear Chaotic Systems using Neural Networks
321	Tatsunori Shibuya <i>National Institute of Advanced Industrial Science and Technology, Japan</i>	Development of sub-microsecond delay pump-probe imaging method for hydrodynamic micro liquid deformation
322	Achu Purushothaman <i>Università degli Studi di Napoli Federico II, Italy</i>	Metallic film deposition by femtosecond laser ablation in air at atmospheric pressure
323	Lukáš Vála <i>University of West Bohemia, Czech Republic</i>	Comparative study of pulsed laser induced synthesis and precipitation of nanostructured ternary Co-Fe-S based coat and nanoparticles
324	Giulio Gorni <i>Laser Processing Group – Institute of Optics (IO-CSIC), Spain</i>	Near-white light emission of thin film glasses prepared by pulsed laser deposition for application in white LEDs
325	Xiaona Zhao <i>Wuhan University, China</i>	Direct Laser Written Periodic Si Ripples Decorated with Au Nanoparticles as a Platform for Surface Enhanced Raman Spectroscopy of inorganic elements in Banana Peels using LIBS
326	Argyro Klini <i>IESL – FORTH, Greece</i>	Role of substrate temperature and laser fluence on cesium lead bromide thin films by Pulsed Laser Deposition
327	Aram Melkonyan <i>UJM Saint-Etienne, CNRS, Institute of Optics Graduate School, France</i>	Densification of amorphous silica obtained from different polymorphs
328	Rodrigas Liudvinavičius <i>Department of Laser Technologies, Center for Physical Sciences and Technology, Lithuania</i>	Formation of periodic plasmonic structures on a thin gold layer sputtered on different surfaces
329	Sathiesh Kumar V <i>MIT Campus, Anna University, India</i>	Investigation of Nutrient Content (Normal/Deficit) in Psidium guajava using remote-LIBS method combined with Machine Learning Approach
330	Yuan Chen <i>China Academy of Engineering Physics (CAEP), China</i>	Talbot effect replicative transcription on downstream optics in high-power laser diagnostics system

331	Mikuru Okazaki <i>Course of Science and Technology, Japan</i>	Antibacterial effect of periodic structure formed on stainless steel by using femtosecond pulsed laser
332	Rajeev Rajendran <i>Cochin University of Science and Technology, India</i>	Femtosecond Laser Processing of Chalcogenide Glass Thin Films
333	Jinsi C P <i>Cochin University of Science and Technology, India</i>	Modeling and Femtosecond Laser Micromachining of 2D Photonic Crystal Heat Reflectors for Energy Saving Smart Windows
334	Kiran Kumar K <i>Technology Innovation Institute, United Arab Emirates</i>	Numerical Simulation of Ultrashort Pulse Laser - Material Interaction with an Angle of Incidence
335	Mario García-Lechuga <i>Universidad Autónoma de Madrid, Spain</i>	Femtosecond laser processing of gold-implanted glass: assisted absorption and optoplasmonic tuneability
336	Sandra Stroj <i>Research Center for Microtechnology, Austria</i>	Realization of miniaturized PMN-PT piezo actuators by femtosecond laser processing for compensation of fine structure splitting of entangled photon quantum emitters
337	Deividas Andriukaitis <i>Ekspla, Lithuania</i>	Efficient Dielectric Material Processing In Femtosecond GHz Burst Mode
338	Marnix Vreugdenhil <i>Utrecht University, Netherlands</i>	Wavelength dependence of single-shot laser ablation thresholds for semiconductors
339	Lebogang Kotsedi <i>iThemba LABS-NRF, South Africa</i>	Comparison of thermal and Laser heating activation energy calculation of Sn-Zn
340	Hiroshi Ogawa <i>National Institute of Advanced Industrial Science and Technology, Japan</i>	Predictive Multimodal AI model for Laser Processed Material Functions and Properties
341	Iaroslav Gnilitzkyi <i>King's College London, UK</i>	Laser-Induced Self-Organized Microrod Arrays
342	Wen-Tse Hsiao <i>Taiwan Instrument Research Institute, National Applied Research Laboratories, Taiwan</i>	Characterization analysis of 1064 nm and 532 nm dual pulsed laser fragmentation in liquid on copper target

343	Yu-Jen Hsiao <i>National Kaohsiung University of Science and Technology, Taiwan</i>	Gas Sensing Films Using Laser Annealing for MEMS Applications
344	Daisuke Satoh <i>National Institute of Advanced Industrial Science and Technology</i>	Laser processing for the fabrication of high-power millimeter-wave components
345	Evaldas Stankevicius <i>Center for Physical Sciences and Technology, Lithuania</i>	Direct laser writing for the formation of nanophotonic structures
346	Meirong Dong <i>South China University of Technology, China</i>	Study on Characteristics of Combustion Process of Solid Fuel Particles by Laser Ignition
347	Lebogang Kotsedi <i>iThemba LABS-NRF, South Africa</i>	Zinc Surface Modification by Femtosecond Laser Studied using Rutherford Backscattering Spectrometry
348	Hamza Qayyum <i>COMSATS University Islamabad, Pakistan</i>	Radiofrequency pulse generation by nanosecond pulsed laser irradiation of aluminum: the effect of laser fluence
349	Hongbin Ding <i>Dalian University of Technology, China</i>	Dynamic plasma sheath of laser-ablated Tungsten plasma
350	Yuan Lu <i>Ocean University of China, China</i>	Laser-induced breakdown spectroscopy for ocean applications
351	Ran Hai <i>Dalian University of Technology, China</i>	Double pulse laser-induced breakdown spectroscopic diagnosis of plasma facing materials in Tokamak
352	Dimitra Ladika <i>IESL – FORTH, Greece</i>	Wavelength-independent and photoinitiator-free multiphoton lithography
353	Eudokia Kyriakou <i>IESL – FORTH, Greece</i>	Bioinspired Hierarchical Materials with enhanced mechanical properties
354	Andreas Parlanis <i>IESL – FORTH, Greece</i>	Auxetic Scaffolds via Multiphoton Lithography for Neuroregeneration
355	Antonis Kordas <i>IESL – FORTH, Greece</i>	Development of in vitro biomimetic environments for the regeneration of the nervous tissue
356	Konstantina Terzaki <i>IESL – FORTH, Greece</i>	Fabrication of porous mastic gum scaffolds by UV laser for drug delivery applications

357	Savvas Papamakarios <i>IESL – FORTH, Greece</i>	Fabrication of Split Ring Resonators (SRRs) for IR energy harvesting using multiphoton lithography
358	Vasileia Melissinaki <i>IESL – FORTH, Greece</i>	Micro-optical elements fabricated by multiphoton lithography on various substrates
359	Gordon Zyla <i>IESL – FORTH, Greece</i>	Laser-based 3D printing of micro-optics with high fidelity
360	Elmina Kabouraki <i>IESL – FORTH, Greece</i>	3D micro-optical elements by multiphoton lithography and nano-imprinted patterns using high laser induced damage threshold photoresists
361	Ioannis Syngelakis <i>IESL – FORTH, Greece</i>	Laser direct writing of efficient 3D TiO ₂ nano-photocatalyst
362	Argyro Klini <i>IESL – FORTH, Greece</i>	Role of substrate temperature and laser fluence on cesium lead bromide thin films by Pulsed Laser Deposition
363	Ioannis Lontos <i>IESL – FORTH, Greece</i>	THz beam profile shaping through linear and nonlinear superposition of two-color laser filaments

