

Programme COLA 2017

Sunday, September 3rd

From 18:00 to 20:00 : welcome drink and registration

	Monday, September 4th	
	Opening Session	
8:30 - 9:00	Registration	
9:00 - 9:15	Welcome - Opening	
9:15 - 10:15	Plenary opening Paul Corkum	The response of transparent materials to intense ultrashort light pulses
10:15 - 10:45	Coffee break	
	Session 1 - Olivier Uteza	
10:45 – 11:15	Javier Solis	Femtosecond laser induced local modification of the glass composition: An alternative route for producing efficient active and passive photonics devices
11:15 - 11:30	Peter Juergens	Background-free detection of subcycle ionization dynamics in solid dielectrics
11:30 - 11:45	Eugene Gamaly	Conversion of transparent dielectric by intense short laser into novel electrically and optically inhomogeneous state (Die-met)
11:45 – 12:00	Romain Beuton	Thermo-elasto-plastic modeling of femtosecond laser-induced cavity in fused silica
12:00 - 12:15	Konstantin Mishchik	Thermal and stress management by controlled energy deposition during fs glass modification with Bessel beams
12:15 - 12:30	Clemens Kunz	Hierarchical surface morphologies by fs-laser induced direct writing on fused silica
12:30 – 14:00	Lunch break	
	Session 2 – Andrei Rode	
14:00 - 14:30	Craig Arnold	Plasmonic-Enhanced Welding of Metal Nanowire Networks for Direct Integration of Transparent Conducting Layers on Organic Electronic Devices
14:30 - 14:45	Keunhee Lee	Laser direct writing of graphene-based transparent conductive films on glass substrates

14:45 - 15:00	Bryce Dorin	Three-dimensional direct laser written graphitic electrical contacts to randomly distributed components
15:00 - 15:15	Yasutaka Nakajima	PDMS/metal composite nanowire fabrication by femtosecond laser direct writing
15:15 - 15:30	Simonluca Piazza	Laser direct-write nanofabrication using engineered materials and shaped light
15:30 - 15:45	Daniel Bubb	Pulsed-Laser Stimulated Pore Formation in Polymersomes Loaded with Plasmonic Nanoparticles
15:45 - 16:15	Coffee break	
	Session 3 – Vassilia Zorba	
16:15 - 16:45	Richard Russo	Laser Ablation for Elemental and Isotopic Chemical Analysis
16:45 - 17:00	Marta Castillejo	Nonlinear microscopy imaging for studying ultraviolet laser ablation of polymer layers
17:00 - 17:15	Marin Vojkovic	Influence of the desorption and ionization wavelengths for soot particles surface chemical analysis by Two-step Laser Mass Spectrometry
17:15 - 17:30	Citlali Sanchez-Aké	Enhancement of LIBS through surface nanostructuration by irradiation of metal thin films
17:30 - 17:45	Pedarnig Johannes	Femtosecond laser-induced breakdown spectroscopy of thin films: spectrochemical micro-imaging and dual-pulse emission enhancement
17:45 - 18:00	Shuntaro Tani	Direct observation of electromagnetic field emission from laser ablation with sub-picosecond temporal resolution
18:00 - 20:00	Poster session 1	

	Tuesday, September 5 th	
	Session 4 – David Geohegan	
8:30 - 9:15	Keynote Guus Rijnders	Novel Functionalities in Atomically Controlled Oxide Heterostructures by Pulsed Laser Deposition
9:15 - 9:30	Corinne Champeaux	VO ₂ smart thin films and nanoparticles by laser ablation processes: size-dependent MIT transition temperature
9:30 - 9:45	Ksenia Maksimova	Structural and functional properties of BaTiO ₃ and SrTiO ₃ thin films grown by Pulsed Laser Deposition
9:45 – 10:00	Daniel Guay	Electrocatalytic activity of epitaxially grown Pt alloys thin films prepared by pulsed laser deposition
10:00 - 10:15	Keita Katayama	Effect of counter shockwave on the expanding plume

10:15 - 10:45	Coffee break	
	Session 5 – Thomas Lippert	
10:45 – 11:15	Venky Venkatesan	Recent Advances in Pulsed Laser Deposition Technology
11:15 - 11:30	Jürgen Schou	Non-stoichiometry of material transfer in pulsed laser deposition (PLD)
11:30 - 11:45	Catalin Constantinescu	Para-/ferro-electric films grown by pulsed laser deposition for various configurations of high-frequency tunable microcapacitors
11:45 – 12:00	Aleksei Grunin	Pulsed laser deposition of the polycrystalline Ni-Mn-based Heusler alloys thin films
12:00 - 12:15	Angela De Bonis	Iron doped LiCoPO ₄ thin films for lithium-ion microbatteries obtained by ns pulsed laser deposition
12:15 - 12:30	Xiang Yao	An insight into the expansion of a laser-induced plasma in vacuum
12:30 – 14:00	Lunch break	
	Session 6 – Jan Siegel	
14:00 - 14:30	Emmanuel Stratakis	Ultrashort pulsed laser biomimetic surface structuring for extreme wettability and tissue engineering
14:30 - 14:45	Juergen Reif	Controlling LIPSS formation for the manipulation of surface wettability
14:45 - 15:00	Peter Gregorcic	Super wettability development after nanosecond-laser ablation of metal surface
15:00 - 15:15	Sandra Stroj	Generation of high-adhesion superhydrophobic surfaces by a femtosecond laser based fabrication process
15:15 - 15:30	Camille Hairaye	Superhydrophobicity of metallic surfaces obtained by laser ablation
15:30 - 15:45	Juergen Ihlemann	Nano ridge formation by ultrashort UV laser irradiation of gold
15:45 - 16:15	Coffee break	
	Session 7 – Saulius Juodkazis	
16:15 - 16:45	F. Ömer Ilday	Ablation-cooled material removal with ultrafast bursts of pulses
16:45 - 17:00	Johannes Roth	Molecular dynamics simulations of laser ablation in Silicon and Germanium: the influence of electron-temperature dependent interactions
17:00 - 17:15	Alexey Volkov	Atomistic and macroscopic simulations of material removal rates under conditions of laser ablation of metal targets by short laser pulses

17:15 - 17:30	George Tsibidis	Convection roll-driven generation of supra-wavelength periodic surface structures on dielectrics upon irradiation with femtosecond pulsed lasers
17:30 - 17:45	Jan Siegel	Angle dependence of LIPSS in steel
17:45 - 18:00	Anthony Abou Saleh	Crystallographic orientation dependence on the formation of periodic nanostructures and defects induced by ultrashort laser irradiation
18:00 - 20:00	Poster session 2	

	Wenesday, September 6th	
	Session 8 – Razvan Stoian	
8:30 - 9:15	Keynote Saulius JUODKAZIS	Laser Ablation/fabrication in Ultrashort Regimes
9:15 - 9:30	Heinz P. Huber	Improving the understanding of ultrafast laser processing of metals by experimental and simulated transient studies of reflectivity and absorption
9:30 - 9:45	Laurent Gallais	Application of quantitative polarized phase microscopy to the field of laser ablation
9:45 – 10:00	Jérôme Gaudin	Ultrafast dynamics of phase change material probed by frequency domain interferometry
10:00 - 10:15	Sebastian Weber	Mutual influence of relaxation processes in laser-excited noble metals
10:15 - 10:45	Coffee break	
	Session 9 – Craig Arnold	
10:45 – 11:15	Michael Schmidt	Tailored laser beam shaping for efficient and accurate microstructuring
11:15 - 11:30	Salvatore Amoruso	Versatile direct femtosecond laser surface structuring with optical vector beams generated by a tunable q-plate converter
11:30 - 11:45	François Courvoisier	Megabar pressures in the wake of ultrafast Bessel pulses
11:45 – 12:00	Wei Chu	High-throughput femtosecond laser processing in transparent materials with simultaneous spatial temporal focusing technique
12:00 - 12:15	Christoph Zwahr	Effects of Nano- and Picosecond Direct Laser Interference Patterning on the Topography and Chemistry of Titanium surfaces
12:15 - 12:30	Qian Zhang	Femtosecond laser transverse writing of depressed cladding waveguides inside ZBLAN glass using tailored 3D focal fields

12:30 – 13:30	Lunch
14:00 - 18:00	Visit of Cassis (boat trip in the Calanques, wine test) or Marseille (touristic train and pedestrian guided tour of few typical places of the city)
20:00 - 23:00	Conference diner at ‘Palais de la Bourse’

	Thursday, September 7th	
	Session 10 – Mitsuhiro Terakawa	
8:30 - 9:15	Keynote Alfred VOGEL	Bio-related applications of lasers
9:15 - 9:30	Tomaz Pozar	Widely applicable simulation of wave propagation inside a human eye: acoustic eye model (AEM)
9:30 - 9:45	Claude Aguergaray	Enhanced laser ablation of bone tissue using ultrafast pulsed Bessel beams for applications in LASSOS
9:45 – 10:00	Jernej Laloć	Laser-ablation-induced mechanical waves in skin phantoms studied by a high-speed camera and a laser-beam-deflection probe
10:00 - 10:15	Miroslav Jelinek	Laser synthesized bioactive, nanocrystalline, ferroelectric BaTiO ₃ /Pt/TiNb for implants
10:15 - 10:45	Coffee break	
	Session 11 – Maria Dinescu	
10:45 – 11:15	Boris N. Chichkov	Recent progress in additive nanomanufacturing and laser printing
11:15 - 11:30	Ioanna Zergioti	Laser Induced Forward Transfer of aptamers for Silicon Nitride-based optical sensors.
11:30 - 11:45	Pere Serra	Laser-induced forward transfer for printed electronics applications
11:45 – 12:00	Qingfeng Li	Double-pulse laser-induced forward transfer: liquid jet formation from solid thin copper film
12:00 - 12:15	Martin Klein Schaarsberg	Laser-Induced Forward Transfer: From Metals to Non-Newtonian Fluids
12:15 - 12:30	Stefan Andree	Femtosecond Laser-Induced Forward Transfer of Micro-Concentrator Solar Cell Materials

12:30 – 14:00	Lunch break	
	Session 12 – Leonid Zhigilei	
14:00 - 14:30	Martí Duocastella	Laser direct-write of tailored microlenses and microlens arrays
14:30 - 14:45	Nathalie Destouches	Ultrafast laser driven 3D self-organization in nanocomposite films
14:45 - 15:00	Taj Khan	Atmospheric pulsed laser deposition of plasmonic nanoparticle films of silver
15:00 - 15:15	David Geohegan	Nanoparticle PLD: Ultrasmall nanoparticles as metastable a building blocks for the bottom-up synthesis of nanostructures and 2D films
15:15 - 15:30	Gaétan Laurens	Mechanical stress in nano-size particles
15:30 - 15:45	Nikita Bityurin	Controlling over the spatial distribution of nanoparticles in photoinduced nanocomposites
15:45 - 16:15	Coffee break	
	Session 13 - Marta Castillejo	
16:15 - 16:45	Stephan Barcikowski	Scalable laser ablation synthesis of nanoparticles for heterogeneous catalysis
16:45 - 17:00	Tetsuo Sakka	Rotational, vibrational, and excitation temperatures of the species in laser ablation plasma in water
17:00 - 17:15	Leonid Zhigilei	Mechanisms of the generation of nanoparticles by short pulse laser irradiation of metal targets in liquid environment: Insights from atomistic simulations
17:15 - 17:30	David Amans	Origin of the nano-carbon allotropes in Pulsed Laser Ablation in Liquids synthesis
17:30 - 17:45	Marcella Dell'aglio	Single and Double pulsed laser ablation in water at high pressure: from the plasma spectroscopy to the nanoparticles formation
17:45 - 18:00	Takeshi Tsuji	Preparation of submicron-sized spherical particles of gold using laser melting in liquids: Improvement of the formation efficiency and size control by utilizing laser-induced agglomeration of colloidal nanoparticles
18:00 - 20:00	Poster session 3	

	Friday, September 8th	
	Session 14 – Florence Garrelie	
8:30 - 9:00	Taira Takunori	Ubiquitous Power Lasers from Giant Micro-photonics
9:00 - 9:15	Alessandro Maffini	Nanosecond Pulsed Laser Deposition of ultra-low density carbon foams for laser-driven ion acceleration
9:15 - 9:30	Amina Bensalah	Pure Organic Chiral Thin Films by Pulsed Laser Deposition
9:30 - 9:45	Ngoc-Vu Hoang	Laser and plasma processing of 2D metastructure for giant luminescence enhancement
9:45 – 10:00	Daniele Trucchi	Black Diamond Laser Technology for High-Temperature Solar Cells
10:00 - 10:15	Vitali Kononenko	Laser-induced modification of diamond: photolytic defect formation and latent graphitization
10:15 - 10:45	Coffee break	
	Session 15 – Marc Sentis	
10:45 – 11:15	Matthieu Lancry	Femtosecond laser induced self-assembled nanostructures in glasses and related anisotropic optical properties
11:15 - 11:30	Iaroslav Gnilitzkyi	High-speed, highly-regular laser-induced periodic structures on metallic and non-metallic surfaces: Experimental and theoretical insights
11:30 - 11:45	Stephan Gräf	Influence of temperature on evolution and properties of laser-induced periodic surface structures on fused silica
11:45 – 12:00	Thomas Ward	Ablation Rate Dependence on Material Bandgap and Pulsed Time Delay for Ultrashort Pulsed Dual Wavelength machining
12:00 - 12:15	Aurélien Sikora	Ablation rate and efficiency optimization for picosecond laser micromachining of silicon
12:15 - 12:30	Ryohei Tasaki	High-speed observation of semiconductor microsphere generation by laser ablation in the air
12:30 – 12:45	Awards and closing ceremony	
	Lunch box	

Poster session 1 - Monday 4th

Poster number	Poster Title	Presenter
1	Propagation of tightly focused femtosecond laser pulses in dielectric materials	Chimier Benoit
2	Visualizing material expansion in dielectrics after fs-laser surface irradiation using fs-resolved microscopy	Garcia-Lechuga Mario
3	Time-resolved investigations of laser-dielectric interaction mechanisms.	Guizard Stéphane
4	Direct imaging of fs laser induced heat flows in glasses	Mermillod-Blondin Alexandre
5	On the role of nanopore formation and evolution in multi-pulse laser nanostructuring of glasses	Itina Tatiana
6	Laser amplification in laser excited dielectrics	Winkler Thomas
7	Femtosecond filament-solid interactions in single- and multiple-filament regimes	Skrodzki Patrick
8	Slow development of nanoscaled voids in ultrafast laser micro-explosions in bulk dielectrics	Stoian Razvan
9	Femtosecond self-reconfiguration of laser-induced plasma patterns in dielectrics	Déziel Jean-Luc
10	Investigation of damage generation during femtosecond laser drilling of glass	Ito Yusuke
11	Evolution and properties of laser-induced periodic surface structures on different glasses	Gräf Stephan
12	Study of moderate aspect ratio micro-channel fabrication on fused silica by ultrafast micro-Bessel beam	Liu Xin
13	Fast CO2 laser ablation of silica and application to the processing of high power laser optics	Gallais Laurent
14	Identification of Nutrients in Plant Material using Laser Induced Breakdown Spectroscopy technique	Vajravelu Sathiesh Kumar
15	Comparison of ns- and fs-LIBS technique for the analysis of copper contamination in aged insulation material	Neettiyath Aparna
16	Analysis of Ca in Zn matrix, using NE-LIBS with ZnO nanoparticles	Rinaldi Carlos
17	Isotopic Analysis of Uranium in matrix of alumina by LIBS	Rinaldi Carlos
18	Multiple wavelength stratigraphy by laser-induced breakdown spectroscopy	Kautek Wolfgang
19	Investigation of optimal parameters for remote soil testing using LIBS	Maruthaiah Thangaraja
20	Development of quantitative analyses of glass via calibration-free laser-induced breakdown spectroscopy	Taleb Aya
21	Facilitating Metal Oxide Diatomic Molecule Formation in Tailored Femtosecond-Laser-Induced Plasmas	Zorba Vassilia
22	Ultrafast Vortex Laser Beam Plasma Spectroscopy	Zorba Vassilia
23	Three-Dimensional Ultrafast Laser Chemical Imaging	Hou Huaming
24	Measurement of thin film coatings with femto- and picosecond LIBS	Basler Carl

25	Spectroscopic Studies of Silicon Plasma Produced by an Nd: YAG Laser	Hanif Muhammad
26	Target Charging During Laser Ablation of Polyethylene targets	Delle Side Domenico
27	Ultrashort Wavelength Technology for Laser Ablation Analysis	Delmdahl Ralph
28	Analysis of aerosols via laser-induced breakdown spectroscopy	Hermann Jörg
29	Correlation study between the rapid barrier control method and Laser Induced Breakdown Spectroscopy (LIBS) for laser process control of thin organic and large area electronic devices	Banerjee Shyama Prasad
30	High quality laser dicing and mechanical breaking strength of thin Silicon chips	Pedarnig Johannes
31	Precise laser ablation imaging of isotopes distribution	Alibakhshi Amin
32	Magnetohydrodynamic compression and heating of a laser produced plasma	Lunney James G.
33	Surface processing with high-power lasers: Analysis of technical and economic criteria for real-world large-scale applications	Rode Andrei
34	Functionalised polymers for more efficient nanosecond UV laser micromachining	Simpson M.
35	Tribological performance of titanium samples oxidized by fs-laser radiation, thermal heating, or electrochemical anodization	Bonse Joern
36	Investigation of peculiarities in laser-matter interaction through LIPSS formation on stainless steel using two-colour double-pulse picosecond laser irradiation	Raciukaitis Gediminas
37	308-nm Double-Pulse Ablation of Polymer Materials	Delmdahl Ralph
38	Enhancement of laser machining resolution using the two-photon absorption effect	Ward Thomas
39	Investigation of the surface uniformity of classically-manufactured fused silica windows	Gerhard Christoph
40	Impact of dielectric barrier discharge plasma treatment at atmospheric pressure on the laser-induced damage threshold of sapphire surfaces	Gerhard Christoph
41	Quantum-kinetic self-consistent model of laser-induced optical nonlinearities in transparent materials	Shcheblanov Nikita
42	The Development of Simulation on Intense Femtosecond Laser Pulse Propagation Dynamic	Wang Yuheng
43	Simulation of Incidence Power Effect on Femtosecond Laser Pulse Propagation in air based on Parallel Computing	Yang Yiming
44	Thermo-optical comportment of glass fiber-reinforced plastic composite laminates under high-energy laser radiation	Allheily Vadim
45	Laser annealing of SiOx films for the generation of luminescent silicon nanoclusters and nanocrystals	Ihlemann Jürgen
46	Periodic patterning of glass by phase mask projection	Ihlemann Jürgen
47	In-Volume Micro Structuring of Transparent Materials	Villiger Roman
48	Photonic jet laser micro-etching: single-mode fibre challenge	Fontaine Joël

49	Design, fabrication, and experimental characterization of laser patterned graphene film heaters on glass substrates	Tseng Shih-Feng
50	Laser structuring of micro-pillars array for light-emitted-diode array module	Chuang Wen-Ning
51	Laser-induced microstructures on Ti substrates for reduced cell adhesion	Heitz Johannes
52	Laser direct writing of silver microstructure in hydrogel by using 522-nm femtosecond laser	Machida Manan
53	Preheat effect of titanium plate fabricated by sputter-free selective laser melting in vacuum	Sato Yuji
54	Laser writing for selective copper seeding on polymers	Ratautas Karolis
55	Laser Direct Writing fabrication of 3D biomimetic magnetic responsive scaffolds for bone regeneration	Paun Irina Alexandra
56	Hybrid UV laser direct writing of UV curable PDMS thin film using aerosol jet printing	Hohnholz Arndt
57	Comparison of different physical models predicting ultrafast polarization resolved reflectometry and ellipsometry	Olbrich Markus
58	Laser-induced forward transfer of nanostructured materials for printed electronics	Sopeña Pol
59	Laser Induced Forward Transfer of Metallic inks: printing and jetting studies	Zergioti Ioanna
60	Laser-induced forward transfer of sensing devices	Palla Papavlu Alexandra
61	A study on the ablation processes induced by a Ho:YAG laser on polymeric materials and nano-composites	Spizzichino Valeria
62	Synthesis of ultrasmall yttrium iron garnet nanoparticles by laser ablation and fragmentation of pressed powders	Schmitz Tim
63	Gas-phase nanoparticles in nanosecond laser ablation plasma plumes of metals revealed by optical emission and third order harmonic generation	Castillejo Marta
64	First evaluation of the cleaning of easel paintings by an optical scalpel	Lopez Maxime
65	Investigation of photo-polymerization process using interference lithography	Stankevicius Evaldas
66	Molecular dynamics simulation of Al explosive boiling and transcritical regimes in nanosecond laser ablation	Zubko Aleksey
67	Application of intensity modulated nanosecond laser pulses for acoustical monitoring of metal ablation	Samokhin Alexander
68	Investigations on resonant-infrared laser ablation (RIA) of organic materials with mid-IR femtosecond laser radiation	Horn Alexander
69	Case study on the dynamics of ultrafast laser heating and ablation of gold thin films by ultrafast pump-probe ellipsometry	Pflug Theo
70	193nm ArF laser ablation and patterning of chitosan thin films	Aesa Abdulsattar
71	Ion dynamics of a laser produced Aluminium plasma at different ambient pressures	Philip Reji
72	Femtosecond laser formed periodic nanostructures on medical polymer plate surface for control of cell spreading	Keisuke Takenaka
73	Femtosecond laser ablation of selected metals: Influence of the target physical properties on the plume dynamics	Focsa Cristian

74	A compact non-differential approach for modeling laser ablation plasma dynamics	Focsa Cristian
75	Metal Nanoparticle Enhancement in Pulsed Laser Deposited CdTe/CdS Photovoltaic Thin Films	Sahiner Mehmet Alper
76	Kinetic and hydrodynamic simulations of the plasma shielding effect during laser ablation of metal targets by short laser pulses	Volkov Alexey
77	Effectiveness of material removal during pulsed laser drilling of high-aspect ratio cavities	Volkov Alexey
78	Femtosecond laser-induced surface plasmon resonances for metallic nanostructuring	Nishiyama Hiroaki
79	On the formation of laser-induced periodic surface structures by femtosecond pulses of megahertz pulse repetition frequencies	Schille Jörg
80	Quality analysis of LIPSS produced on large areas using highly-repetitive ultrashort laser pulses in the visible wavelength range	Schneider Lutz

Poster session 2 - Tuesday 5th

Poster number	Poster Title	Presenter
101	Tuning the optical and catalytic properties of nickel oxide by pulsed laser deposition	Popat Yaksh
102	Phase purity control through oxygen pressure in VO ₂ thin films grown by PLD	Ait Djafer Zouina Amina
103	Engineered thin films by Pulsed Laser Deposition for thermionic applications	Bellucci Alessandro
104	Comparison of tungsten boride layers deposited by laser pulse, magnetron sputtering and combined magnetron sputtering - pulsed laser deposition	Chrzanowska Justyna
105	Bioactive glass and glass-ceramics thin films deposited by Pulsed Laser for the coating of bone-related implants	Curcio Mariangela
106	Synthesis of metastable W-O and W-N films and nanostructure growth induced by thermal annealing	Dellasega David
107	2-dimensional carbon nanostructures obtained by laser ablation in liquid: effect of an ultrasonic field	Escobar-Alarcon Luis
108	Zn-modified TiO ₂ thin films deposited by combining plasmas produced by laser ablation and magnetron sputtering	Escobar-Alarcon Luis
109	Effect of the deposition time on the structural, luminescence and optical properties of Y ₂ O ₂ S:Ce ³⁺ thin films deposited by pulsed laser deposition	Dejene Francis
110	Luminescence properties and thickness profile of pulsed laser deposited [(KY)] ₃ F ₁₀ :(Ho) ³⁺ thin films	Dejene Francis
111	Structural and luminescence properties of BaAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ phosphor thin films grown by pulsed laser deposition	Dejene Francis
112	Yellow emission and luminescence enhancement of Y ₃ Al ₅ O ₁₂ :Ce ³⁺ , thin film phosphors prepared by Pulsed Laser Deposition	Dejene Francis
113	Effect of oxygen partial pressure on the structural and luminescence properties of pulsed laser deposited (Y-Gd) ₃ Al ₅ O ₁₂ :Ce ³⁺ thin films	Dejene Francis
114	3-d metal silicides functional structures by pulsed laser deposition: growth and investigation	Goikhman Alexandr
115	Effect of UV-laser irradiation on the structure and photoluminescence response of Er ³⁺ -doped fluorotellurite film glasses produced by pulsed laser deposition	Gonzalo Jose
116	Artificial Photosynthesis by CaNbO ₂ N and LaTiO ₂ N Oxynitride Thin Films prepared by Pulsed Reactive Crossed Beam Laser Ablation	Haydous Fatima
117	Laser induced deposition (PLD) of ZnO thin films on single fibres for the production of flexible dye-sensitized solar cells	Krämer Andre
118	Band-gap tuning in EuOx thin films controlling the non-stoichiometric growth by PLD	Mariscal Antonio
119	Growth and characterization of shellac films grown by matrix assisted pulsed laser evaporation at different wavelengths	Dinescu Maria
120	Dielectric materials grown as thin films by laser ablation for antireflective coatings	Dinescu Maria
121	Diamond like carbon prepared by Pulsed laser deposition with ion bombardment - physical properties	Jelinek Miroslav
122	Pulsed-laser deposition of Nd/Nb-codoped TiO _x (with x equal 1.5 or 2) thin films	Millon Eric

123	Tuning electrical and optical properties of Nd doped ZnO thin films grown by pulsed laser deposition and pulsed electron beam deposition	Nistor Magdalena
124	Characterization of Ni based thin film heaters grown by PLD on flexible PDMS substrates	Palla Papavlu Alexandra
125	Strong enhancement of sesquioxide thin film luminescence deposited on porous alumina membrane	Pereira Antonio
126	Characterization of Ge ₁₅ Sb ₈₅ phase change material grown by Pulsed Laser Deposition	Ghamlouché Hassan
127	Background pressure and gas effect on the crystalline phase of pulsed laser deposited CdTe thin films	Quiñones-Galván J. G.
128	Effect of the combination of Cu and CdTe plasmas on the structural and optical properties of CdTe thin films deposited by laser ablation	Quiñones-Galván J. G.
129	Characterization of nanostructured Al-Si-N thin films deposited by laser ablation	Rivera Laura
130	Influence of the spot size on ZnO thin films produced by pulsed laser deposition	Sánchez-Aké Citlali
131	Laser ablation and pulsed photoacoustic technique	Sánchez-Aké Citlali
132	MAPLE preparation of arylenevinylene polymer: fullerene derivative C71 mixed layer for photovoltaic applications	Stanculescu Anca
133	Preparation of carbon based multilayered coatings by means of pulsed laser deposition: outstanding mechanical properties and enhanced film toughness	Weissmantel Steffen
134	Effect of plasma ion density on the physical properties of Zn _{1-x} Sn _x O _y nanostructured thin films grown by pulsed laser deposition	Zetina G. J.
135	Electromagnetic fields at nanostructured metal surfaces prepared by pulsed laser deposition. Simulations and experiments	Trusso Sebastiano
136	Elemental and alloyed noble metal particles by picosecond and nanosecond ablation in water. Nanostructure, optical and spectroscopic properties	Santoro Marco
137	Single-step fabrication of plasmonic nanostructured gold thin films via Confined Atmospheric Pulsed Laser Deposition	Mccann Ronan
138	Optimisation of Multiwavelength Continuous Nanoparticle Fabrication via Pulsed Laser Ablation in Liquid	Freeland Brian
139	Laser Ablation of Metals in Liquid Contact	Kautek Wolfgang
140	Adding new information on pulsed laser ablation in liquids by fast X-ray diagnostics	Reich Stefan
141	The modelling and synthesis of nanodiamonds with laser ablation of graphite and diamond-like carbon in liquid-confined ambient	Basso Luca
142	Femtosecond laser ablation using high average power and high pulse repetition rates	Bernard Benjamin
143	Tuning sensitivity based on a coupled atom cavity for rotation sensors	Zhisong Xiao
144	10µm- wide Pattern Engraving Using Metal Specimens Coated With a Heterogeneous Metal for Printed Electronics	Cao Binh
145	Decontamination of metallic surfaces by nanosecond laser ablation	Carvalho Luisa
146	Molecular Dynamics Simulations of Laser Ablation of Metals	Eisfeld Eugen

147	Ablation of metals with sub-ns laser pulses	Gecys Paulius
148	Droplet formation during sub-picosecond laser deposition of ultra-thin gold films	Gontad Francisco
149	Ultrashort-pulsed-laser ablation of Ge ₂ Sb ₂ Te ₅ thin films: Applications for near-field marking of topology-optimized nanoparticles	Hanghøj Møller Søren
150	Super-Resolution inscription in thin film multilayers	Moisset Charles
151	Short pulse laser patterning processes for manufacturing of organic photovoltaics	Kapnopoulos Christos
152	Precise Scribing of Amorphous Silicon Thin-film Solar Cells with Femtosecond Laser Beams for High Efficiency	Luan Haitao
153	Microfluidic filtration in glass and hydrophobic channel in PMMA	Lim Ki-Soo
154	Laser direct microstructuring with bursts of picosecond pulses	Mur Jaka
155	Ultraviolet laser ablation as technique for defect repair of GaN-based light-emitting diodes	Passow Thorsten
156	Micro structuring of YAG:Ce ceramic converters for white light-emitting diodes by ultraviolet picosecond laser ablation	Passow Thorsten
157	New structures of diffraction resistant beams	Zamboni Rached Michel
158	Inscription of waveguides inside monolithic crystalline silicon with nanosecond laser pulses	Chambonneau Maxime
159	Multi-imaging analysis of nascent surface structures generated during femtosecond laser irradiation of silicon in high vacuum	Amoruso Salvatore
160	Femtosecond laser induced homogeneous and large area surface patterning of solids and ultrathin fibers	Singh Kamal
161	Ablation of Silicon and Spider silk by single femtosecond pulse	Sidhu Mehra
162	Polarization Dependent Nano-Structuring of Silicon with a Femtosecond Laser Vortex Beam	Rahimiangolkhandani Mitra
163	Impact of resolidification dynamics on crystal properties of laser molten amorphous Silicon	Meyer Fabian
164	Reduction of ablation rate on silicon surface irradiated by double-pulse beam with two color laser	Masaki Hashida
165	Transient electron-hole dynamics in the surface layer of silicon upon femtosecond laser irradiation in modification regime	Derrien Thibault
166	Modelling of single nanosecond pulse laser-induced melt flows on Silicon	Acosta-Zepeda Carlos
167	The morphology of the laser-plasma torch during nanosecond ablation of Al target in the surrounding gas	Mazhukin Vladimir
168	Nanosecond laser ablation of Al target in a gaseous environment	Mazhukin Alexander
169	Nanosecond laser-induced grating formation in Silicon	Haro-Poniatowski Emmanuel
170	Electric Properties of Crystallized Amorphous Silicon Film Treated Using Pulsed Ultraviolet Laser and Continuous CO ₂ Laser	Hsiao Wen-Tse
171	Micro-cutting of multilayer stack materials on silicon-based wafer with ultraviolet nanosecond pulsed laser for sensor device application	Hsiao Wen-Tse

172	Simulation of ablating on metal Mo films using the moving laser	Hsiao Wen-Tse
173	Influence of N2 gas flow on cutting of carbon fiber reinforced plastics with high power sub nanosecond pulse fiber laser.	Masuno Shin-ichiro
174	Detection of covered liquids and solids after a laser ablation based sampling process for security research purposes	Wild Dominik
175	Influence of ambient pressure on surface structures generated by ultrashort laser pulse irradiation	Allahyari Elaheh
176	Fast photodeposition of noble metals onto semiconducting substrates via direct laser writing	Sutton David
177	Pulsed laser-assisted synthesis of carbon encapsulated silver nanoparticles	Soni Ravi

Poster session 3 - Thursday 7th

Poster number	Poster Title	Presenter
201	Productivity Limiting Factors in Pulsed Laser Ablation in Liquids	Barcikowski Stephan
202	Femtosecond laser fragmentation for synthesis of ultrapure nanomaterials for biological applications	Tselikov Gleb
203	Femtosecond laser fragmentation for synthesis of nanomaterials for biological and catalytic applications	Popov Anton
204	Noble metal nanoparticles generated by fs pulsed laser ablation in liquid for sensor and biosensor applications	Santagata Antonio
205	Laser ablation of copper target in distilled water and 2-propanol for nanoparticle synthesis	Baruah Prahlad
206	Optoacoustic effects and spectroscopy of water solutions under the laser breakdown in an ultrasound field	Bulanov Alexey
207	Production of metal nanoparticles by ultra-short pulsed laser ablation in aqueous solutions	Orlando Stefano
208	Synthesis of anisotropic In ₂ O ₃ Nanoparticles by Pulsed Laser Ablation in Solutions	Das Rupali
209	Expedition of Phase Transition in TiO ₂ Nanoparticles during Laser-Target-Liquid Interaction	Nath Arpita
210	Carbon nanoparticles synthesized by the laser ablation in liquid	Szymanski Zygmunt
211	Laser assisted fabrication and modification of nanostructured materials	Tarasenko Nikolai
212	Effects of liquid viscosity on laser-induced cavitation bubble studied by high-speed stroboscopic videography	Tanabe Rie
213	Silicon surfaces irradiated by nanosecond IR pulsed laser under sulfuric acid solution	Jiménez-Jarquín Javier
214	Viability evaluation of cells in femtosecond laser driven cell sorter	Hong Zhen-Yi
215	One step production of Phage-silicon nanoparticles by PLAL as quantum dots nanoprobe for cells identification.	De Plano Laura
216	Investigation of minerals using Laser Induced Breakdown Spectroscopy techniques under high pressure conditions	Jayabal Sumathi
217	Measurement of apical extrusion during laser activated irrigation within root canals using particle image velocimetry (PIV)	Jereb Teja
218	Experimental investigation of the substrate-mediated laser ablation of biological tissues	Maulouet Tony
219	Laser-generated Au nanoparticles for bio-medical applications	Restuccia Nancy
220	Surface stiffness of zebrafish embryo evaluated from responses to femtosecond laser impulse	Yasukuni Ryohei
221	Super-hydrophobicity of casted PDMS surfaces	Aguergaray Claude
222	Controlled cell Adhesion on Microstructured PDMS surface with femtosecond pulses	Alshehri Ali
223	Study of Au nanoparticles formation by ns pulsed irradiation of thin films in vacuum and at atmospheric pressure	Canales Adriana
224	Selective cell response on natural polymer bio-interfaces textured by femtosecond laser	Daskalova Albena

225	Generation of high-contrast superhydrophobic/superhydrophilic bionic surfaces using fs-lasers	Domke Matthias
226	Spectrometric characterization of laser colorized metal surfaces	Gregorcic Peter
227	Enhancement of corrosion resistance after nanosecond-laser texturing of stainless steel	Gregorcic Peter
228	Evaporation-induced two-phase flow at selective laser melting	Gusarov Andrey
229	Comparison of different laser beam source influence on structure and properties of unalloyed titanium	Tanski Tomasz
230	The structure and mechanical properties of AlMg5Si2Mn alloy after surface alloying by the use fiber laser	Tanski Tomasz
231	Numerical Investigation on the mechanisms of striation formation in laser cutting of steel	Brihmat-Hamadi Farida
232	Three-dimensional modelling of laser cutting with inert assisting gas	Brihmat-Hamadi Farida
233	Optimization of laser marking process parameters, for surface roughness and surface reflectance	Brihmat-Hamadi Farida
234	Apertureless scanning near-field nanolithography on metal and polymer films with a femtosecond Yb-doped fiber laser oscillator	Kautek Wolfgang
235	Influence of laser irradiation area and pulse number on top-down (ablation) and bottom-up (LIPSS) processes	Kautek Wolfgang
236	The role of laser pulse overlap in ultrafast thin film structuring applications	Karnakis Dimitris
237	Hybrid nano-/microstructures generated by 30-fs laser pulse processing of Titanium alloy surfaces for tribological applications	Kirner Sabrina
238	Nanostructures formation on Ni film surface by nanosecond laser irradiation	Koda Kazuki
239	Silicon-catalyzed growth of amorphous SiO _x nanowires by laser ablation of SiO in high-pressure gas	Kokai Fumio
240	Silicon diffractive optics for the THz range fabricated by laser ablation	Komlenok Maxim
241	Conductivity of the graphitized paths fabricated by nano- and femtosecond lasers on the diamond surface	Komlenok Maxim
242	Electrically responsive microstructured polypyrrole-polyurethane composites for stimulated osteogenesis	Luculescu Catalin
243	Controll of periodic nanostructures on Ti substrates with femtosecond laser by change of dielectric constant of Ti surface	Oga Takahiro
244	Surface texturing of CRFP composites using femtosecond laser interferometry	Oliveira Victor
245	Selective rear-side ablation of thin Nickel-Chromium alloy films by ultrashort laser pulses	Pabst Linda
246	Investigation for the determination of thresholds using laser radiation with none Gaussian beam profile	Pabst Linda
247	Femtosecond laser fabrication of periodic nanostructures in polymeric surfaces reinforced by carbon nanoadditives	Castillejo Marta
248	Ultrafast Laser Fabrication of Biomimetic Micro and Nano structured Surfaces	Skoulas Evangelos
249	Smoothing of steel materials and formation of nano periodic structures by picosecond pulsed laser ablation	Tomoki Kobayashi
250	Influence of pulse width in laser assisted texturing on chromium films	V Ezhilmaran

251	Ablation of steel using picosecond laser pulses in burst mode	Weissmantel Steffen
252	Ultrafast dynamics of non-equilibrium electrons and strain generation under femtosecond laser irradiation of Nickel	Tsibidis George
253	Direct Laser Interference Patterning on a Curved Surface Using 355nm Laser	Yun Dan Hee
254	3D porous metal structure manufacturing using UV pulsed laser and copper formate solution	Hong Sungmoo
255	Laser-induced periodic surface structures on Yttria-stabilized Zirconia ceramics by cross-polarized femtosecond double-pulse irradiations	Kakehata Masayuki
256	Numerical Simulation about Effect of Laser Ablation on Surface of CFRP	Ohkubo Tomomasa
257	Effect of laser peening with glycerol as plasma confinement layer	Ehara Naoya
258	Processing Quality Analysis of Laser Drilling of Multilayer Flexible Printed Circuit Board	Hsiao Wen-Tse
259	Transparent conductive oxide films induced crystallization using low temperature blue laser diode irradiation	Hsiao Wen-Tse
260	Comparison of Chromium Oxide Layer formed using Nanosecond Laser and Femtosecond Laser for Solar Absorber Application	Kotsedi Lebogang
261	Interface bonding of NiCrAlY coating on sandblasted Nd:YAG laser modified H13 tool steel	Nur Aqida Syarifah
262	Particles Distribution in Laser Modified Layer with Tungsten Carbide Powder Addition	Nur Aqida Syarifah
263	Laser Melting Repair of Groove Defect on High Thermal Conductivity Steel (HTCS-150)	Nur Aqida Syarifah
264	Mechanisms of self-assembled periodic nanostructures induced by the femtosecond laser irradiation	Shimotsuma Yasuhiko
265	Laser peening for surface enhancement of aluminum alloy 5052	Toyokura Shin
266	Effects of Near Infrared Pulse Laser Irradiation on Laser Peening	Zhang Kun
267	Momentum coupling at laser ablation of liquids in a porous matrix	Loktionov Egor
268	How do defects influence the laser ablation of titanium dioxide nanotube arrays?	Arul Rakesh
269	An Analytical Model to Calculate and Minimize the Residual Stress of Laser Cladding Process	Tamanna Nusrat
270	Thermo-structural Modelling of Laser Surface Glazing for H13 Tool Steel	Kabir Israt Rumana
271	Nano-structures formed by low fluence irradiation of XeCl excimer laser	Kusaba Mitsuhiro
272	Optical properties of laser-excited metals under nonequilibrium conditions	Ndione Pascal
273	Investigation of the thermal effects of nanosecond laser irradiation on tungsten-based material for nuclear fusion applications	Besozzi Edoardo
274	Enhanced Optical and Ion emissions from Nanostructured Silicon Target	Kiliyanamkandy Anoop
275	Isotopic Enrichment of Zn particles generated by Laser Ablation	Rinaldi Carlos
276	Thermal Direct Write at Solid-Liquid Interfaces	Tomko John

277	Energy confinement and thermal boundary conductance effects on short-pulsed thermal ablation thresholds in thin films	Tomko John
278	Direct laser writing of CdS QDs within a polymeric matrix	Delaporte Philippe