

Programme COLA 2017

Sunday, September 3rd

From 18:00 to 20:30 : welcome drink and registration

Monday, September 4 th		
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	Coffe break	
Session 1		
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		
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	Coffe break	
	Session 3	
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 nanostructuring by irradiation of metal thin films
17:30 - 17:45	Vasily Lednev	Picosecond Pulses Train vs Nanosecond Pulse Laser Ablation and Laser Induced Breakdown Spectroscopy
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 5th	
	Session 4	
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	Coffe break	

Session 4		
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 5		
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	Coffe break	
Session 6		
16:15 - 16:45	F. Ömer Ilday	Ablation-cooled material removal with ultrafast bursts of pulses
16:45 - 17:00	Thomas Ward	Ablation Rate Dependence on Material Bandgap and Pulsed Time Delay for Ultrashort Pulsed Dual Wavelength machining
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	

Wednesday, September 6 th		
Session 7		
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	Coffe break	
Session 8		
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 7 th		
Session 9		
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 Agueraray	Enhanced laser ablation of bone tissue using ultrafast pulsed Bessel beams for applications in LASSOS
9:45 – 10:00	Jernej LaloĀi	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	Coffe break	
Session 10		
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 11	
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 '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	Coffe break	
	Session 12	
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 8 th		
Session 13		
8:30 - 9:00	Taira Takunori	
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	Coffe break	
Session 14		
10:45 – 11:15	Matthieu Lancry	Femtosecond laser induced self-assembled nanostructures in glasses and related anisotropic optical properties
11:15 - 11:30	Iaroslav Gnilitzkiy	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	Johannes Roth	Molecular dynamics simulations of laser ablation in Silicon and Germanium: the influence of electron-temperature dependent interactions
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	Femtosecond filament-solid interactions in single- and multiple-filament regimes	Skrodzki Patrick
6	Slow' development of nanoscaled voids in ultrafast laser micro-explosions in bulk dielectrics	Stoian Razvan
7	Femtosecond self-reconfiguration of laser-induced plasma patterns in dielectrics	Déziel Jean-Luc
8	Investigation of damage generation during femtosecond laser drilling of glass	Ito Yusuke
9	Fast CO2 laser ablation of silica and application to the processing of high power laser optics	Gallais Laurent
10	Identification of Nutrients in Plant Material using Laser Induced Breakdown Spectroscopy technique	Kaliyaperumal Veerappan
11	Analysis of Ca in Zn matrix, using NE-LIBS with ZnO nanoparticles	Rinaldi Carlos
12	Isotopic Analysis of Uranium in matrix of alumina by LIBS	Rinaldi Carlos
13	Multiple wavelength stratigraphy by laser-induced breakdown spectroscopy	Kautek Wolfgang
14	Elemental profiling of laser cladded coatings by laser induced breakdown spectroscopy	Lednev Vasily N.
15	Investigation of optimal parameters for remote soil testing using LIBS	Maruthaiah Thangaraja
16	Comparison of ns- and fs-LIBS technique for the analysis of copper contamination in aged insulation material	Neettiyath Aparna
17	Development of quantitative analyses of glass via calibration-free laser-induced breakdown spectroscopy	Taleb Aya
18	An Analytical Model to Calculate and Minimize the Residual Stress of Laser Cladding Process	Tamanna Nusrat
19	Facilitating Metal Oxide Diatomic Molecule Formation in Tailored Femtosecond-Laser-Induced Plasmas	Zorba Vassilia
20	Ultrafast Vortex Laser Beam Plasma Spectroscopy	Zorba Vassilia
21	Measurement of thin film coatings with femto- and picosecond LIBS	Basler Carl
21	Spectroscopic Studies of Silicon Plasma Produced by an Nd: YAG Laser	Hanif Muhammad
22	Stagnation Layer Formation at the Centre of Annular Laser Produced Plasmas	Delaney Ben
23	Target Charging During Laser Ablation of Polyethylene targets	Delle Side Domenico
24	Ultrashort Wavelength Technology for Laser Ablation Analysis	Delmdahl Ralph
25	Analysis of aerosols via laser-induced breakdown spectroscopy	Dutouquet Christophe
26	Accurate analyses of materials via calibration-free laser-induced breakdown spectroscopy: a dream?	Hermann Jörg

Poster number	Poster Title	Presenter
27	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
28	Femtosecond laser-induced breakdown spectroscopy of thin films: spectrochemical micro-imaging and dual-pulse emission enhancement	Pedarnig Johannes
29	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	Tapie Jean-Luc
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 comporment 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	Microfluidic filtration in glass and hydrophobic channel in PMMA	Lim Ki-Soo
48	In-Volume Micro Structuring of Transparent Materials	Villiger Roman
49	Photonic jet laser micro-etching: single-mode fibre challenge	Lecler Sylvain
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	Thermal Direct Write at Solid-Liquid Interfaces	Tomko John

Poster number	Poster Title	Presenter
54	Preheat effect of titanium plate fabricated by sputter-free selective laser melting in vacuum	Sato Yuji
55	Three-Dimensional Ultrafast Laser Chemical Imaging	Hou Huaming
56	Laser writing for selective copper seeding on polymers	Ratautas Karolis
57	Laser Direct Writing fabrication of 3D biomimetic magnetic responsive scaffolds for bone regeneration	Paun Irina Alexandra
58	Hybrid UV laser direct writing of UV curable PDMS thin film using aerosol jet printing	Hohnholz Arndt
59	Comparison of different physical models predicting ultrafast polarization resolved reflectometry and ellipsometry	Olbrich Markus
60	Laser-induced forward transfer of nanostructured materials for printed electronics	Sopeña Pol
61	Laser Induced Forward Transfer of Metallic inks: printing and jetting studies	Zergioti Ioanna
62	Laser-induced forward transfer of sensing devices	Palla Papavlu Alexandra
63	A study on the ablation processes induced by a Ho:YAG laser on polymeric materials and nano-composites	Spizzichino Valeria
64	Synthesis of ultrasmall yttrium iron garnet nanoparticles by laser ablation and fragmentation of pressed powders	Schmitz Tim
65	Gas-phase nanoparticles in nanosecond laser ablation plasma plumes of metals revealed by optical emission and third order harmonic generation	De Nalda Rebeca
66	Investigation of photo-polymerization process using interference lithography	Stankevicius Evaldas
67	Molecular dynamics simulation of Al explosive boiling and transcritical regimes in nanosecond laser ablation	Zubko Aleksey
68	Application of intensity modulated nanosecond laser pulses for acoustical monitoring of metal ablation	Samokhin Alexander
69	Investigations on resonant-infrared laser ablation (RIA) of organic materials with mid-IR femtosecond laser radiation	Horn Alexander
70	Case study on the dynamics of ultrafast laser heating and ablation of gold thin films by ultrafast pump-probe ellipsometry	Pflug Theo
71	193nm ArF laser ablation and patterning of chitosan thin films	Aesa Abdulsattar
72	Ion dynamics of a laser produced Aluminium plasma at different ambient pressures	Philip Reji
73	Femtosecond laser formed periodic nanostructures on medical polymer plate surface for control of cell spreading	Keisuke Takenaka
74	Femtosecond laser ablation of selected metals: Influence of the target physical properties on the plume dynamics	Focsa Cristian
75	A compact non-differential approach for modeling laser ablation plasma dynamics	Focsa Cristian
76	Metal Nanoparticle Enhancement in Pulsed Laser Deposited CdTe/CdS Photovoltaic Thin Films	Sahiner Mehmet Alper
77	Kinetic and hydrodynamic simulations of the plasma shielding effect during laser ablation of metal targets by short laser pulses	Volkov Alexey
78	Effectiveness of material removal during pulsed laser drilling of high-aspect ratio cavities	Volkov Alexey
79	Femtosecond laser-induced surface plasmon resonances for metallic nanostructuring	Nishiyama Hiroaki

Poster session 2 - Tuesday 5th

Poster number	Poster Title	Presenter
80	Tuning the optical and catalytic properties of nickel oxide by pulsed laser deposition	Popat Yaksh
81	Phase purity control through oxygen pressure in VO ₂ thin films grown by PLD	Ait Djafer Zouina Amina
82	Growth of TiO ₂ Nanolayers by Pulsed Laser Deposition Under Single and Multipulse Laser Excitation	Alvira Fernando
83	Pulsed laser deposition of PbTe under monopulse and multipulse regime	Alvira Fernando
84	Engineered thin films by Pulsed Laser Deposition for thermionic applications	Bellucci Alessandro
85	Comparison of tungsten boride layers deposited by laser pulse, magnetron sputtering and combined magnetron sputtering - pulsed laser deposition	Chrzanowska Justyna
86	Bioactive glass and glass-ceramics thin films deposited by Pulsed Laser for the coating of bone-related implants	Curcio Mariangela
87	Synthesis of metastable W-O and W-N films and nanostructure growth induced by thermal annealing	Dellasega David
88	Dielectric materials grown as thin films by laser ablation for antireflective coatings	Dinescu Maria
89	2-dimensional carbon nanostructures obtained by laser ablation in liquid: effect of an ultrasonic field	Escobar-Alarcon Luis
90	Zn-modified TiO ₂ thin films deposited by combining plasmas produced by laser ablation and magnetron sputtering	Escobar-Alarcon Luis
91	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	Francis Dejene
92	Luminescence properties and thickness profile of pulsed laser deposited [(KY)] ₃ F ₁₀ :(Ho) ³⁺ thin films	Francis Dejene
93	Structural and luminescence properties of BaAl ₂ O ₄ :Eu ²⁺ , Dy ³⁺ phosphor thin films grown by pulsed laser deposition	Francis Dejene
94	Yellow emission and luminescence enhancement of Y ₃ Al ₅ O ₁₂ :Ce ³⁺ , thin film phosphors prepared by Pulsed Laser Deposition	Francis Dejene
95	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	Francis Dejene
96	3-d metal silicides functional structures by pulsed laser deposition: growth and investigation	Goikhman Alexandr
97	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
98	Artificial Photosynthesis by CaNbO ₂ N and LaTiO ₂ N Oxynitride Thin Films prepared by Pulsed Reactive Crossed Beam Laser Ablation	Haydous Fatima
99	Laser induced deposition (PLD) of ZnO thin films on single fibres for the production of flexible dye-sensitized solar cells	Krämer Andre
100	Band-gap tuning in EuOx thin films controlling the non-stoichiometric growth by PLD	Mariscal Antonio
101	Growth and characterization of shellac films grown by matrix assisted pulsed laser evaporation at different wavelengths	Matei Andreea

Poster number	Poster Title	Presenter
102	Single-step fabrication of plasmonic nanostructured gold thin films via Confined Atmospheric Pulsed Laser Deposition	Mccann Ronan
103	Diamond like carbon prepared by Pulsed laser deposition with ion bombardment - physical properties	Miksovsky Jan
104	Pulsed-laser deposition of Nd/Nb-codoped TiOx (with x equal 1.5 or 2) thin films	Millon Eric
105	Tuning electrical and optical properties of Nd doped ZnO thin films grown by pulsed laser deposition and pulsed electron beam deposition	Nistor Magdalena
106	Characterization of Ni based thin film heaters grown by PLD on flexible PDMS substrates	Palla Papavlu Alexandra
107	Strong enhancement of sesquioxide thin film luminescence deposited on porous alumina membrane	Pereira Antonio
108	Room temperature epitaxial growth of Zn-doped Fe oxide films by Pulsed Laser Deposition	Perriere Jacques
109	Background pressure and gas effect on the crystalline phase of pulsed laser deposited CdTe thin films	Quiñones-Galván J. G.
110	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.
111	Characterization of nanostructured Al-Si-N thin films deposited by laser ablation	Rivera Laura
112	Influence of the spot size on ZnO thin films produced by pulsed laser deposition	Sánchez-Aké Citlali
113	MAPLE preparation of arylenevinylene polymer: fullerene derivative C71 mixed layer for photovoltaic applications	Stanculescu Anca
114	Electromagnetic fields at nanostructured metal surfaces prepared by pulsed laser deposition. Simulations and experiments	Trusso Sebastiano
115	Preparation of carbon based multilayered coatings by means of pulsed laser deposition: outstanding mechanical properties and enhanced film toughness	Weissmantel Steffen
116	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.
117	Optimisation of Multiwavelength Continuous Nanoparticle Fabrication via Pulsed Laser Ablation in Liquid	Freeland Brian
118	Invetsigation on Synthesizing spherical NiTi alloy nanoparticles from rotating targets in under water liquid assisted laser ablating technique	Iyamperumal Anand Palani
119	Elemental and alloyed noble metal particles by picosecond and nanosecond ablation in water. Nanostructure, optical and spectroscopic properties	Ossi Paolo
120	Laser Ablation of Metals in Liquid Contact	Kautek Wolfgang
121	Adding new information on pulsed laser ablation in liquids by fast X-ray diagnostics	Reich Stefan
122	Gold nanoparticles size changes by two-wavelength pulsed laser ablation in liquid monomer isodecylacrylate	Zulina Natalia
123	The modelling and synthesis of nanodiamonds with laser ablation of graphite and diamond-like carbon in liquid-confined ambient	Basso Luca
124	Femtosecond laser ablation using high average power and high pulse repetition rates	Bernard Benjamin

Poster number	Poster Title	Presenter
125	CFRP Bonding pre-Treatment With Laser Radiation of 3 μm Wavelength: Effectiveness Compared With Conventional Laser Sources	Blass David
126	10 μm - wide Pattern Engraving Using Metal Specimens Coated With a Heterogeneous Metal for Printed Electronics	Cao Binh
127	Decontamination of metallic surfaces by nanosecond laser ablation	Carvalho Luisa
128	Molecular Dynamics Simulations of Laser Ablation of Metals	Eisfeld Eugen
129	Laser ablation and pulsed photoacoustic technique	García-Fernández Tupak
130	Ablation of metals with sub-ns laser pulses	Gecys Paulius
131	Droplet formation during sub-picosecond laser deposition of ultra-thin gold films	Gontad Francisco
132	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
133	Simulation of ablating on metal Mo films using the moving laser	Hsiao Wen-Tse
134	Short pulse laser patterning processes for manufacturing of organic photovoltaics	Kapnopoulos Christos
135	Precise Scribing of Amorphous Silicon Thin-film Solar Cells with Femtosecond Laser Beams for High Efficiency	Luan Haitao
136	Morphology of metallic surfaces ablated with femtosecond laser	Maharjan Niroj
137	Laser direct microstructuring with bursts of picosecond pulses	Mur Jaka
138	Ultraviolet laser ablation as technique for defect repair of GaN-based light-emitting diodes	Passow Thorsten
139	Micro structuring of YAG:Ce ceramic converters for white light-emitting diodes by ultraviolet picosecond laser ablation	Passow Thorsten
140	Inscription of waveguides inside monolithic crystalline silicon with nanosecond laser pulses	Chambonneau Maxime
141	Multi-imaging analysis of nascent surface structures generated during femtosecond laser irradiation of silicon in high vacuum	Gesuele Felice
142	Polarization Dependent Nano-Structuring of Silicon with a Femtosecond Laser Vortex Beam	Rahimiangolkhandani Mitra
143	Impact of resolidification dynamics on crystal properties of laser molten amorphous Silicon	Meyer Fabian
144	Effects of post deposition heat treatment on the surface morphological properties of Femtosecond Pulsed Laser Deposited ZnS on Silicon and Glass substrates	Miranda Jessa Jayne
145	Reduction of ablation rate on silicon surface irradiated by double-pulse beam with two color laser	Masaki Hashida
146	Transient electron-hole dynamics in the surface layer of silicon upon femtosecond laser irradiation in modification regime	Derrien Thibault
147	Modelling of single nanosecond pulse laser-induced melt flows on Silicon	Acosta-Zepeda Carlos
148	The morphology of the laser-plasma torch during nanosecond ablation of Al target in the surrounding gas	Mazhukin Vladimir
149	Nanosecond laser ablation of Al target in a gaseous environment	Mazhukin Alexander
150	Nanosecond laser-induced grating formation in Silicon	Haro-Poniatowski Emmanuel
151	Electric Properties of Crystallized Amorphous Silicon Film Treated Using Pulsed Ultraviolet Laser and Continuous CO ₂ Laser	Hsiao Wen-Tse

Poster number	Poster Title	Presenter
152	Micro-cutting of multilayer stack materials on silicon-based wafer with ultraviolet nanosecond pulsed laser for sensor device application	Hsiao Wen-Tse
153	Influence of N2 gas flow on cutting of carbon fiber reinforced plastics with high power sub nanosecond pulse fiber laser.	Masuno Shin-ichiro
154	Detection of covered liquids and solids after a laser ablation based sampling process for security research purposes	Wild Dominik
155	Influence of ambient pressure on surface structures generated by ultrashort laser pulse irradiation	Jj Nivas Jijil
156	Fast photodeposition of noble metals onto semiconducting substrates via direct laser writing	Sutton David
157	Pulsed laser-assisted synthesis of carbon encapsulated silver nanoparticles	Soni Ravi
158	Particles Distribution in Laser Modified Layer with Tungsten Carbide Powder Addition	Nur Aqida Syarifah
159	Evolution and properties of laser-induced periodic surface structures on different glasses	Gräf Stephan
160	Interface bonding of NiCrAlY coating on sandblasted Nd:YAG laser modified H13 tool steel	Reza Mohamed

Poster session 3 - Thursday 7th

Poster number	Poster Title	Presenter
161	Productivity Limiting Factors in Pulsed Laser Ablation in Liquids	Barcikowski Stephan
162	Noble metal nanoparticles generated by fs pulsed laser ablation in liquid for sensor and biosensor applications	Antonio Santagata
163	Balance of O ₂ and H ₂ content under laser-induced breakdown of aqueous colloidal solutions	Barmina Ekaterina
164	Laser ablation of copper target in distilled water and 2-propanol for nanoparticle synthesis	Baruah Prahlad
165	Ultra-high density optical data storage in common transparent plastics using ultrafast lasers	Bhardwaj Ravi
166	Optoacoustic effects and spectroscopy of water solutions under the laser breakdown in an ultrasound field	Bulanov Alexey
167	Laser-induced damage thresholds of metals: Comparison of air and water environments	Bulgakov Alexander
168	Synthesis of anisotropic In ₂ O ₃ Nanoparticles by Pulsed Laser Ablation in Solutions	Das Rupali
169	Intraocular pressure measurement based on the laser induced cavitation phenomena.	Devia-Cruz Luis
170	Zirconia ablation: Ablation thresholds and laser welding tests.	Devia-Cruz Luis
171	Femtosecond laser fragmentation for synthesis of ultrapure nanomaterials for biological applications	Tselikov Gleb
172	Femtosecond laser fragmentation for synthesis of nanomaterials for biological and catalytic applications	Popov Anton
173	Expedition of Phase Transition in TiO ₂ Nanoparticles during Laser-Target-Liquid Interaction	Nath Arpita
174	Production of metal nanoparticles by ultra-short pulsed laser ablation in aqueous solutions	Orlando Stefano
175	Carbon nanoparticles synthesized by the laser ablation in liquid	Szymanski Zygmunt
176	Effects of liquid viscosity on laser-induced cavitation bubble studied by high-speed stroboscopic videography	Tanabe Rie
177	Laser assisted fabrication and modification of nanostructured materials	Tarasenko Nikolai
178	Silicon surfaces irradiated by nanosecond IR pulsed laser under sulfuric acid solution	Jiménez-Jarquín Javier
179	Design, fabrication, and experimental characterization of laser patterned graphene film heaters on glass substrates	Tseng Shih-Feng
180	Viability evaluation of cells in femtosecond laser driven cell sorter	Hong Zhen-Yi
181	Optical properties of polymer nanocomposites with metal nanoparticles of gold and silver	Rakov Ignat
182	One step production of Phage-silicon nanoparticles by PLAL as quantum dots nanoprobe for cells identification.	De Plano Laura
183	Investigation of minerals using Laser Induced Breakdown Spectroscopy techniques under high pressure conditions	Jayabal Sumathi
185	Measurement of apical extrusion during laser activated irrigation within root canals using particle image velocimetry (PIV)	Jereb Teja
186	Experimental investigation of the substrate-mediated laser ablation of biological tissues	Maulouet Tony
187	Laser-generated Au nanoparticles for bio-medical applications	Restuccia Nancy

Poster number	Poster Title	Presenter
188	Surface stiffness of zebrafish embryo evaluated from responses to femtosecond laser impulse	Yasukuni Ryohei
189	Super-hydrophobicity of casted PDMS surfaces	Aguergaray Claude
190	Controlled cell Adhesion on Microstructured PDMS surface with femtosecond pulses	Alshehri Ali
191	Study of Au nanoparticles formation by ns pulsed irradiation of thin films in vacuum and at atmospheric pressure	Canales Adriana
192	Selective cell response on natural polymer bio-interfaces textured by femtosecond laser	Daskalova Albena
193	Generation of high-contrast superhydrophobic/superhydrophilic bionic surfaces using fs-lasers	Domke Matthias
194	Spectrometric characterization of laser colored metal surfaces	Gregorcic Peter
195	Enhancement of corrosion resistance after nanosecond-laser texturing of stainless steel	Gregorcic Peter
196	Evaporation-induced two-phase flow at selective laser melting	Gusarov Andrey
197	Crystallite size effect on structural, morphological and steady photoluminescence spectroscopy of intense blue Ce ³⁺ -doped Lu ₂ SiO ₅ scintillator nanomaterial	Hamroun Mohammed Salah Eddine
198	Comparison of different laser beam source influence on structure and properties of unalloyed titanium	Tanski Tomasz
199	Numerical Investigation on the mechanisms of striation formation in laser cutting of steel	Tamsaout Toufik
200	Three-dimensional modelling of laser cutting with inert assisting gas	Tamsaout Toufik
201	The role of laser pulse overlap in ultrafast thin film structuring applications	Karnakis Dimitris
202	Apertureless scanning near-field nanolithography on metal and polymer films with a femtosecond Yb-doped fiber laser oscillator	Kautek Wolfgang
203	Influence of laser irradiation area and pulse number on top-down (ablation) and bottom-up (LIPSS) processes	Kautek Wolfgang
204	Hybrid nano-/microstructures generated by 30-fs laser pulse processing of Titanium alloy surfaces for tribological applications	Kirner Sabrina
205	Nanostructures formation on Ni film surface by nanosecond laser irradiation	Koda Kazuki
206	Silicon-catalyzed growth of amorphous SiO _x nanowires by laser ablation of SiO in high-pressure gas	Kokai Fumio
207	Silicon diffractive optics for the THz range fabricated by laser ablation	Komlenok Maxim
208	Conductivity of the graphitized paths fabricated by nano- and femtosecond lasers on the diamond surface	Komlenok Maxim
208	Electrically responsive microstructured polypyrrole-polyurethane composites for stimulated osteogenesis	Luculescu Catalin
209	Controll of periodic nanostructures on Ti substrates with femtosecond laser by change of dielectric constant of Ti surface	Oga Takahiro
210	Surface texturing of CRFP composites using femtosecond laser interferometry	Oliveira Victor
211	Selective rear-side ablation of thin Nickel-Chromium alloy films by ultrashort laser pulses	Pabst Linda
212	Femtosecond laser fabrication of periodic nanostructures in polymeric surfaces reinforced by carbon nanoadditives	Rebollar Esther

Poster number	Poster Title	Presenter
213	Functional Nanostructured Surfaces Induced by Laser Irradiation on Fullerene Materials	Rebollar Esther
214	Ultrafast Laser Fabrication of Biomimetic Micro and Nano structured Surfaces	Skoulas Evangelos
215	Smoothing of steel materials and formation of nano periodic structures by picosecond pulsed laser ablation	Tomoki Kobayashi
216	Influence of pulse width in laser assisted texturing on chromium films	V Ezhilmaran
217	Ablation of steel using picosecond laser pulses in burst mode	Weissmantel Steffen
218	Direct Laser Interference Patterning on a Curved Surface Using 355nm Laser	Yun Dan Hee
219	3D porous metal structure manufacturing using UV pulsed laser and copper formate solution	Hong Sungmoo
220	Laser-induced periodic surface structures on Ytria-stabilized Zirconia ceramics by cross-polarized femtosecond double-pulse irradiations	Kakehata Masayuki
221	Numerical Simulation about Effect of Laser Ablation on Surface of CFRP	Ohkubo Tomomasa
222	Isotopic Enrichment of Zn particles generated by Laser Ablation	Rinaldi Carlos
223	Energy confinement and thermal boundary conductance effects on short-pulsed thermal ablation thresholds in thin films	Tomko John
224	Ultrafast dynamics of non-equilibrium electrons and strain generation under femtosecond laser irradiation of Nickel	Tsibidis George
225	Interface bonding of NiCrAlY coating on sandblasted Nd:YAG laser modified H13 tool steel	Aqida Syarifah
226	Optimization of laser marking process parameters, for surface roughness and surface reflectance	Brihmat-Hamadi Farida
227	Effect of laser peening with glycerol as plasma confinement layer	Ehara Naoya
228	Processing Quality Analysis of Laser Drilling of Multilayer Flexible Printed Circuit Board	Hsiao Wen-Tse
229	Transparent conductive oxide films induced crystallization using low temperature blue laser diode irradiation	Hsiao Wen-Tse
230	Comparison of Chromium Oxide Layer formed using Nanosecond Laser and Femtosecond Laser for Solar Absorber Application	Kotsedi Lebogang
231	Experimental and numerical modelling studies of laser induced thermal desorption of titanium hydride	Ma Mingwang
232	Particles Distribution in Laser Modified Layer with Tungsten Carbide Powder Addition	Nur Aqida Syarifah
233	Laser Melting Repair of Groove Defect on High Thermal Conductivity Steel (HTCS-150)	Nur Aqida Syarifah
234	Mechanisms of self-assembled periodic nanostructures induced by the femtosecond laser irradiation	Shimotsuma Yasuhiko
235	The structure and mechanical properties of AlMg5Si2Mn alloy after surface alloying by the use fiber laser	Tanski Tomasz
236	Laser peening for surface enhancement of aluminum alloy 5052	Toyokura Shin
237	Effects of Near Infrared Pulse Laser Irradiation on Laser Peening	Zhang Kun
238	Momentum coupling at laser ablation of liquids in a porous matrix	Loktionov Egor
239	How do defects influence the laser ablation of titanium dioxide nanotube arrays?	Arul Rakesh

Poster number	Poster Title	Presenter
240	Investigation of the thermal effects of nanosecond laser irradiation on tungsten-based material for nuclear fusion applications	Besozzi Edoardo
241	Laser action onto film or bulk targets: melting, capillary hydrodynamics, and freezing in motion	Inogamov Nail
242	Thermo-structural Modelling of Laser Surface Glazing for H13 Tool Steel	Kabir Israt Rumana
243	Enhanced Optical and Ion emissions from Nanostructured Silicon Target	Kiliyanamkandy Anoop
244	Nano-structures formed by low fluence irradiation of XeCl excimer laser	Kusaba Mitsuhiro
245	Optical properties of laser-excited metals under nonequilibrium conditions	Ndione Pascal