

Monday,
31 August

Poster Session 1

Fundamentals Of
Laser-Material
Interactions

- P-001 **Mr Xuewen Wang**, *Swinburne University of Technology, Australia*
Colour centres in KBr induced by femtosecond laser pulses
- P-002 **Dr Csaba Vass**, *University of Szeged, Department of Optics & Quantum Electronics, Hungary*
Study on effects induced by ultrashort laser pulses focused inside transparent materials
- P-003 **Dr Csaba Vass**, *University of Szeged, Department of Optics & Quantum Electronics, Hungary*
Two dimensional numerical modeling of TWIN-LIBWE method for interpretation of submicrometer grating fabrication in fused silica
- P-004 **Dr Olivier Uteza**, *Aix Marseille Univ., CNRS, LP3, France*
Time-resolved measurement of femtosecond laser energy deposition in fused silica
- P-005 **R. Lachaine**, *Polytechnique Montréal, Canada*
Comparative study of nanoparticle-assisted resonant and non-resonant ultrafast laser nanocavitation
- P-006 **Prof Haizheng Tao**, *Wuhan University of Technology, China*
Origin of photoinduced change in optical properties of chalcogenide glass
- P-007 **Toufik Tamsaout**, *Center For Development Of Advanced Technologies (CDTA), Algeria*
Three-dimensional modeling of laser cutting process with compressible and incompressible assisting gas
- P-008 **Dr Juan Song**, *Jiang Su University, China*
The three-level ripples induced by femtosecond laser on a 6H-SiC single crystal and the formation mechanism
- P-009 **A/Prof Maria Doubenskaia**, *Lyon University, Ecole Nationale d'Ingenieurs de Saint-Etienne (ENISE), LTDS Laboratory, France*
Integrated analysis of millisecond pulsed laser irradiation of metals by comprehensive optical diagnostics and numerical simulation
- P-010 **Prof Arvinder Singh**, *National Institute Of Technology Jalandhar, India*
Second Harmonic Generation of q-Gaussian Laser Beam by Localization of Upper Hybrid Wave in Collisionless Plasma
- P-011 **Prof Nek Shaikh**, *Institute Of Physics, University Of Sindh, Pakistan*
Effect of Transverse Magnetic Field on Dynamics of Sn Plasma Produced by CO₂ Laser
- P-012 **Dr Alexander Samokhin**, *Prokhorov General Physics Institute, Russian Academy of Sciences, Russia*
On different regimes of condensed matter laser ablation: molecular dynamic simulations
- P-013 **Dr Alexander Samokhin**, *Prokhorov General Physics Institute, Russian Academy of Sciences, Russia*
Laser ablation of absorbing liquids under transparent cover: acoustical and optical monitoring
- P-016 **Dr Smijesh Nadarajan Achary, Prof Reji Philip**, *Raman Research Institute, India*
Influence of laser pulse width on the ablation of Zinc in nitrogen ambient
- P-017 **Ayumu Matsumoto**, *Kyoto University, Japan*
Effects of pulse duration on overall temporal behavior of the bubble produced by nanosecond laser ablation in water
- P-018 **Dr Marta Castillejo**, *Institute Physical Chemistry "Rocasolano"-CSIC, Spain*
Double Pulse Femtosecond Laser Ablation and Deposition of Co/Zn/S nanostructures
- P-020 **Toufik Tamsaout**, *Center for Development of Advanced Technologies (CDTA), Algeria*
Optimisation of laser cutting process in relation to the maximum cutting speeds using numerical modelling
- P-022 **Dr Kuo-Cheng Huang**, *Instrument Technology Research Center, National Applied Research Laboratories, Taiwan*
Section Analysis of Fabric materials Cut Using Ultraviolet Laser Ablation
- P-023 **Prof. Dr. Alexander Horn**, *Laserinstitut Hochschule Mittweida, Germany*
Simulation of the spherical aberration by focusing laser radiation in transparent materials: Comparison of different simulation approaches
- P-024 **Dr Arvinder Singh**, *National Institute of Technology Jalandhar, India*
Excitation of Upper Hybrid Wave by Cross-Focusing of Two Cosh-Gaussian Laser Beams in Preformed Parabolic Plasma Channel
- P-025 **Dr Olivier Uteza**, *LP3 - CNRS - AMU, France*
Space-time study of microplasmas inside silicon induced by infrared ultrashort laser pulses

**Lasers in
Nanoscience -
Photonic
Fabrication At
Nanometer Scale**

- P-026 **Dr Miklós Füle**, *Department of Experimental Physics, University of Szeged, Hungary*
Structure and surface morphology evolution of amorphous carbon surfaces during transformation by 0.2-20 ps laser pulses
- P-027 **Prof Cristian Focsa**, *University of Lille, France*
Electrical and optical investigations of plasma plumes generated by femtosecond laser ablation of various metals
- P-028 **Dr Guillaume Duchateau**, *Centre Lasers Intenses et Applications (CELIA) / CEA, France*
Energy deposition in dielectric materials by few cycles laser pulses
- P-029 **Jason Becker**, *CMUXE, School of Nuclear Engineering, Purdue University, USA*
Effect of Metal Thermal Properties on LIBS Plasma Emission
- P-030 **Patrick Skrodzki**, *CMUXE, School of Nuclear Engineering, Purdue University, USA*
Effects of Transverse Magnetic Fields on nanosecond and femtosecond Laser Produced Plasma
- P-031 **Jason Becker**, *CMUXE, School of Nuclear Engineering, Purdue University, USA*
Improving the conversion efficiency of EUV emission using CO₂ reheating of Nd:YAG pre-pulse produced Sn plasma
- P-032 **Dr Wen-Tse Hsiao**, *Instrument Technology Research Center, National Applied Research Laboratories, Taiwan*
Optical constant of molybdenum film in CuInGaSe solar cell and the estimated ablating temperatures with a moving laser
- P-033 **Prof Marta Castillejo**, *Instituto de Química Física Rocasolano, CSIC, Spain*
Femtosecond laser ablation plasmas of metals as nonlinear optical media for low order harmonic generation
- P-035 **Chris Baldwin**, *Macquarie University, Australia*
Nanostructuring of diamond via two photon UV etching at sub-ablation fluences
- P-037 **Dr Rosalina Zakaria**, *University Of Malaya, Malaysia*
Laser Annealing of Thin Films using NdYAG laser
- P-039 **Cheng-Yu Shih**, *University of Virginia, USA*
Molecular dynamics simulation study of femtosecond laser ablation of silver thin films and bulk targets in water environment
- P-040 **Prof Leonid Zhigilei**, *University of Virginia, USA*
Large-scale atomistic modeling of structural modification of metal surfaces in femtosecond laser processing
- P-041 **Dr Maria Lucia Pace**, *CNR - ISM UOS Tito Scalo, Italy*
Fs laser pulses for ablation and deposition of noble metal nanoparticles with tunable optical properties
- P-044 **Dr Lebogang Kotsedi**, *University of South Africa / iThemba LABS-National Research Foundation, South Africa*
Molybdenum thin films interaction with femtosecond laser to form Molybdenum dioxide nanorods
- P-045 **Jeonghong Ha**, *Pohang University of Science & Technology, Korea*
Plasmonic nanowelding of silver nanowires using a femtosecond laser
- P-046 **Prof Dongsik Kim**, *Pohang University of Science & Technology, Korea*
Structural transformation of single-walled carbon nanotubes by femtosecond laser irradiation
- P-047 **Prof Wolfgang Husinsky**, *Technische Universität Wien, Austria*
Influence of the pulse duration on the ablation threshold and the incubation coefficient of copper and silicon upon irradiation by femtosecond laser pulses
- P-048 **Dr Wen-Tse Hsiao**, *Instrument Technology Research Center, National Applied Research Laboratories, Taiwan*
Surface modification nanoporous titanium oxide films for dye-sensitized solar cell application using Nd:YVO₄ and CO₂ lasers
- P-049 **A/Prof Ranran Fang**, *College of Science, Chongqing University of Posts & Telecommunications, China*
Time-resolved microscopy of femtosecond laser-induced surface nanostructures on metal
- P-050 **Dr Won Seok Chang**, *Korea Institute Of Machinery And Materials, Korea*
Design and Fabrication of a Tip-On-Aperture Probe for Resolution Enhancement of Optical Patterning
- P-051 **Dr Won Seok Chang**, *Korea Institute Of Machinery And Materials, Korea*
Fabrication of solution-based electronics using laser selective scanning

**Promising New
Laser And Optical
Technologies**

- P-052 **Prof Nikita Bityurin**, *Institute of Applied Physics, RAS, Russia*
Diffusion-assisted laser writing for 3D nanostructuring by means of multiphoton polymerization
- P-053 **Carlos Acosta Zepeda**, *Universidad Autónoma Metropolitana, Mexico*
Slit diffraction patterning of silicon surfaces by ns-laser irradiation: theory and experiment
- P-054 **A/Prof Yoshiki Nakata**, *Institute of Laser Engineering, Osaka University, Japan*
Sub-Micron Period Metal Lattices Fabricated by Interfering Ultraviolet Femtosecond Laser Processing
- P-055 **Prof Tomasz Tanski**, *Institute of Engineering Materials & Biomaterials, Poland*
Influence of laser alloying of AlMg₅Si₂Mn on structure and mechanical properties obtained layers
- P-056 **Prof Andrei Rode**, *Australian National University, Australia*
Mapping laser-induced thermal forces acting on particles in air in a diverging hollow-core vortex beam
- P-057 **Prof Krzysztof Labisz**, *Institute of Engineering Materials & Biomaterials, Poland*
Ceramic particles feeding in carbon prepared aluminium surface using diode laser
- P-058 **Prof Leonid Zhigilei**, *University of Virginia, USA*
Strong enhancement of surface diffusion under the action of laser induced nonlinear surface acoustic waves
- P-059 **Chi-Chung Yang**, *Instrument Technology Research Center, Taiwan*
Hybrid laser cutting technology of Ti-6Al-4V thin sheet using diode-pumped-solid-state ultraviolet laser
- P-060 **Dr Egor Loktionov**, *Bauman Moscow State Technical University, Russia*
Improvements in combined laser interferometry technique for laser ablation research
- P-061 **Dr Yuji Sato**, *Joining & Welding Research Institute, Osaka University, Japan*
Investigation of micro structure and surface morphology of Ti64 plate fabricated by vacuum selective laser melting
- P-062 **Dr Maria Lucia Pace**, *CNR - ISM UOS Tito Scalo, Italy*
Laser ablation parameters as fundamental key factors for controlling the 3D Additive Manufacturing process: considerations
- P-063 **Dr Citlali Sanchez-Ake**, *National Autonomous University Of Mexico, Mexico*
Real-time study of gold nanoparticles formation by pulsed laser annealing
- P-064 **Dr Alexandra Palla-Papavlu**,
National Institute for Lasers, Plasma & Radiation Physics, Romania
Fabrication of a lab-on-a-chip device by laser micromachining
- P-065 **Prof D. Geohegan**, *Oak Ridge National Laboratory, USA*
Synthesis of Ultrasmall Nanoparticles by Laser Vaporization as "Building Blocks" for Nanostructures and Thin Films
- P-067 **Dr Olaf Krueger**, *Ferdinand-Braun-Institut, Leibniz-Institut für Höchstfrequenztechnik (FBH), Germany*
Precision UV laser scribing for cleaving mirror facets of GaN-based laser diodes
- P-068 **Dr Sayarifah Nur Aqida Syed Ahmad**, *University Malaysia, Pahang, Malaysia*
Surface modification of AISI H13 tool Steel by laser cladding with NiTi powder

**Tuesday,
1 September**

Poster Session 2

- Promising New Laser And Optical Technologies
- P-069 **Changho Seo**, *Department of Mechanical Engineering, POSTECH, Republic of Korea*
Removal of 5 nanometer gold particles from solid surfaces by laser-induced spray jet
- P-070 **Dr Seung-Man Kim**, *Korea Institute of Machinery & Materials, Republic of Korea*
Laser based edge zone release process for ZoneBOND temporary bonding and debonding
- P-071 **Dr Jaegu Kim**, *Korea Institute Of Machinery And Materials, South Korea*
Selective lift-off of GaN LED from sapphire substrate using 266 nm diode-pumped solid-state laser irradiation
- P-072 **Prof Helena Jelinkova**, *Czech Technical University In Prague, Czech Republic*
Dysprosium thiogallate laser - source of mid-infrared radiation
- P-073 **Falko Jahn**, *University Of Applied Sciences Mittweida, Germany*
Microstructuring of tetrahedral amorphous carbon films (ta-C) using a 248 nm KrF excimer laser
- P-074 **Dr Peter Gregorcic**, *Faculty Of Mechanical Engineering, University Of Ljubljana, Slovenia*
Optimization of laser-pulse energy during selective laser trabeculoplasty by detection of cavitation bubbles formation
- P-075 **Dr Toufik Tamsaout**, *Centre De Développement des Technologies Avancées, Algeria*
Characterization of titanium oxide layers produced by nanosecond laser irradiation
- P-077 **Prof Dan C. Dumitras**, *National Institute for Laser, Plasma & Radiation Physics, Romania*
Laser photoacoustic technology for measurement of gas ablation products at sub-ppb level
- P-078 **Robert Donaldson**, *Queensland University Of Technology, Australia*
Creating and utilizing spatially varying light intensity profiles to enhance nonlinear responses
- P-079 **Dr Burkhard Fechner**, *Coherent LaserSystems GmbH & Co. KG, Germany*
Excimer Laser Assisted Growth of Group IV Alloys
- P-081 **Prof Nikita Bityurin**, *Institute of Applied Physics, RAS, Russia*
Femtosecond surface nanostructuring by means of colloidal particle lens array
- Pulsed Laser Ablation And Deposition
- P-082 **Kumiko Yokota**, *Kobe University, Japan*
Laser-detonation facility for acceleration of gaseous materials: Etching and deposition of solid materials
- P-085 **Tei Watanabe**, *National Institute of Technology, Anan College, Japan*
TiO₂ PLD nanocrystalline films supporting Au nanoparticles for application to visible-light-operating plasmonic photocatalysts
- P-086 **Dr Rongping Wang**, *Australian National University, Australia*
Epitaxial growth of Sc₂O₃ films on Gd₂O₃-buffered silicon substrates by Pulsed Laser Deposition
- P-087 **Dr Marco Ernst**, *Australian National University, Australia*
Nanosecond laser ablation of aluminium-oxide dielectric films for the formation of p-type doped silicon for photovoltaic applications
- P-088 **Takeshi Ueyama**, *Graduate school of information science & electrical engineering, Kyushu University, Japan*
Synthesis of ZnO Micro-Spheres by Laser Ablation and Their Application to Refractive Sensor
- P-089 **Eri Ueno**, *Hitachi Zosen Corporation, Japan*
Numerical analysis of flow field during laser ablation process for formation of Si clusters
- P-090 **Dr Shih-Feng Tseng**, *Instrument Technology Research Center, National Applied Research Laboratories, Taiwan*
Graphene resistance chip fabricated by ultraviolet laser beams for a high-sensitivity electrochemical impedance spectroscopy
- P-091 **Dr Suwon Kim**, *Kyungpook National University*
A Study on Laser Joining of Metal and Plastic
- P-093 **Prof Kouichi Takase**, *Nihon University, Japan*
Vanadium Oxide thin film preparation by PLD for Resistive switching memory In/VOx/Al
- P-094 **A/Prof Masahito Tagawa**, *Kobe University, Japan*
Property of the hyperthermal CO₂ beam formed by a laser-detonation facility for space environmental effect studies in upper Martian
- P-095 **Prof Hendrik Swart**, *University of the Free State, South Africa*
Luminescence properties of Pulsed Laser Deposited Y₂O₃:Bi³⁺ thin films
- P-096 **Yi Sun**, *Osaka Institute Of Technology, Japan*
Flexible Transparent ZnO Thin-Film Transistors by Pulsed Laser Deposition

- P-097 **Dr Sergey Starikov**, *Joint Institute for High Temperatures of Russian Academy of Sciences, Russia*
Atomistic simulation of surface modification by laser pulse: comparison of models with various scales
- P-098 **Dr Maria Dinescu**, *National Institute for Lasers, Plasma and Radiation Physics, Romania*
Growth of SrxBa1-xNb2O6 and Ca-doped SrxBa1-xNb2O6 thin films on MgO and Nb:SrTiO3 substrates by PLD and RF-PLD technique
- P-099 **Ville Kekkonen**, *Picodeon Ltd Oy, Finland*,
Picosecond pulsed laser deposition process of porous ceramic coating for Li-ion battery separator film
- P-100 **Dr Jørgen Schou**, *DTU Fotonik, Technical University of Denmark, Denmark*
Pulsed Laser Deposition of absorber and buffer layer for thin-film earth-abundant solar cells
- P-101 **Dr Maria Dinescu**, *INFLPR- National Institute for Laser, Plasma and Radiation Physics, Romania*
Small band-gap thin film of doped and pure BiFeO3 obtained by pulsed laser deposition for photovoltaic and photocatalytic applications
- P-102 **Dr Maria Dinescu**, *INFLPR- National Institute for Laser, Plasma and Radiation Physics, Romania*
Dielectric properties enhancement in epitaxial BCZT thin films with nanoscale strain domains.
- P-103 **Prof Koichi Sasaki**, *Hokkaido University, Japan*
Spectrum of laser light scattered by nanoparticles in ablation-induced cavitation bubble
- P-104 **Dr Citlali Sanchez-Ake**, *National Autonomous University Of Mexico, Mexico*
NaCl thin films obtained by pulsed laser deposition
- P-105 **Dr Citlali Sanchez-Ake**, *National Autonomous University Of Mexico, Mexico*
A pulsed photo acoustic study of the laser ablation synthesis of Ag nanoparticles in ethanol
- P-106 **Shota Sakaki**, *Hokkaido University, Japan*
Synthesis of submicrometer-sized spherical particles by laser irradiation in liquid with different laser pulse width
- P-110 **Dr Rongping Wang**, *Australian National University, Australia*
Growth and Characterization of Y2O3 thin films on Gd2O3 buffered Si substrates using Pulsed Laser Deposition
- P-112 **Owen Bodley**, *The University of Auckland / The MacDiarmid Institute for Advanced Materials and Nanotechnology and The Dodd Walls Centre for Quantum and Photonic Technologies, New Zealand*
An Apparatus to Control the Spatial Beam Characteristics for Femtosecond Laser Ablation of a Wide Variety of Materials
- P-113 **Rakesh Arul**, *The University of Auckland / The Dodd Walls Centre for Quantum and Photonic Technologies and The MacDiarmid Institute for Advanced Materials and Nanotechnology, New Zealand*
Laser reduction of graphene oxide to reduced graphene oxide: an experimental and simulated comparison between methods
- P-115 **Thomas Ward**, *The University of Auckland / The MacDiarmid Institute for Advanced Materials and Nanotechnology and The Dodd Walls Centre for Quantum and Photonic Technologies, New Zealand*
Optimisation of femtosecond laser ablation parameters for efficient cutting of sintered alumina wafers
- P-116 **Zhiwei Han**, *The University of Auckland / The MacDiarmid Institute for Advanced Materials and Nanotechnology and The Dodd Walls Centre for Quantum and Photonic Technologies, New Zealand*
Femtosecond laser cutting speed optimization for single crystal quartz wafers
- P-117 **Satoshi Ohmuro**, *Graduate School Of Science And Technology, Nihon University, Nihon*
Effect of applied electric field in Pulsed Laser Deposition
- P-118 **A/Prof Tomomas Ohkubo**, *Tokyo University Of Technology, Japan*
Numerical Simulation of Laser Processing of Carbon Fiber Reinforced Plastics Including Combustion Effect
- P-119 **Dr Michal Novotny**, *Institute of Physics, Academy of Sciences of the Czech Republic, Czech Republic*
The properties of rare-earth doped zinc oxide/phthalocyanine structures for optoelectronics
- P-120 **Dr Takahiro Nakamura**, *Institute of multidisciplinary research for advanced materials, Tohoku University, Japan*
Formation of Diamond-Like Carbon Thin Films by Femtosecond Laser Ablation of a Frozen Cyclohexane Target

- P-121 **J.J. Naddeo & Matt Ratti**, *Rutgers University, USA*
Light Induced Toxicity of Silver Nanoparticles Produced by Laser Ablation in Liquid
- P-123 **Prof Dermot Brabazon**, *Dublin City University, Ireland*
Confined atmospheric pulsed laser deposition of nanostructured ultrathin films
- P-124 **Dr Andreea Matei**, *National Institute for Lasers Plasma & Radiation Physics, Romania*
PLD of layered double hydroxides for hydrophobic coatings
- P-125 **Dr Andreea Matei**, *National Institute for Lasers Plasma & Radiation Physics, Romania*
Thin films of ferrocene derivatives for non-linear optical applications: laser processed thin films and printed pixels
- P-126 **Yong-Won Ma**, *Pusan National University, Republic of Korea*
Fabrication of Polyimide Spheres by Pulsed Laser at 355 nm
- P-127 **Dr Antonella Lorusso**, *Department Of Mathematics And Physics "E. De Giorgi", Italy*
Structural and morphological properties of metallic thin films grown by pulsed laser deposition for photocathode application
- P-128 **Prof Jingquan Lin**, *Changchun University of Science & Technology, China*
Systematic investigation of plasma shock evolution from Al target induced by nanosecond Nd:YAG laser ablation
- P-129 **Dr Zhibin Lin**, *Electro Scientific Industries, USA*
Experimental and Numerical Studies of Nanosecond Laser Processing for Industrial Micromachining Applications
- P-131 **Dr Ok Sik Kim**, *Laser Application Center, South Korea*
Laser ablation of CFRP by using picosecond laser and femtosecond laser
- P-132 **Prof Mishik Kazaryan**, *Lebedev Physical Institute of Russian Academy of Sciences, Russia*
Printing and surface patterning in liquids by laser and ultrasound ablation
- P-133 **Prof Deb Kane**, *Macquarie University, Australia*
Laser removal of a coating from glass slides of consolidant materials relevant to museum conservation practice
- P-134 **Mr Ryota Kajimoto**, *Osaka Institute Of Technology, Japan*
Preparation of visible-light-responsive titanium oxide by laser ablation in liquid
- P-135 **Prof Miroslav Jelinek**, *Institute of Physics ASCR, Czech Republic*
Bonds and bio- properties of hybrid laser Cr- doped DLC for implants
- P-136 **Prof Miroslav Jelinek**, *Institute of Physics ASCR, Czech Republic*
Thermoelectric YbCoSb Laser Prepared Layers
- P-137 **Prof Miroslav Jelinek**, *Institute of Physics ASCR, Czech Republic*
Scanning thermal microscopy: Characterization of PLD films
- P-138 **Ryuchi Ishihara**, *Nihon-University, Japan*
Synthesis of Rod-Shaped Iron Nanocrystals Using Blue Laser-Assisted Pulsed-Laser Ablation in Liquid
- P-139 **Dr Kuo-Cheng Huang**, *Instrument Technology Research Center, National Applied Research Laboratories, Taiwan*
Planar Square-spiral Inductor Generated from the ITO Film Removal by Using UV Laser Ablation

**Pulsed Laser
Ablation And
Deposition**

- P-140 **A/Prof Yasutaka Hanada**, *Hirosaki University, Japan*
Microfabrication of UV transparent fluoric polymer CYTOP using a conventional pulsed green laser
- P-141 **Young-Joon Han**, *Australian National University, Australia*
Low temperature micro-photoluminescence spectroscopy on laser doped silicon with different surface condition
- P-142 **Dr Taeho Ha**, *Korea Institute of Machinery & Materials, Republic of Korea*
Prototype of Mini-size Er:YAG Laser Skin Perforator
- P-143 **Dr Peter Gregorcic**, *Faculty Of Mechanical Engineering, University Of Ljubljana, Slovenia*
Photodisruption of the elastic membrane with the laser-induced cavitation bubble dynamics: an optodynamic study
- P-144 **Nathan Goodfriend**, *University of Edinburgh, United Kingdom*
Blister-based nanosecond laser-induced forward transfer of large molecules and nanoparticles for gas-phase analysis
- P-145 **Gabriela Gomes**, *Centro Brasileiro de Pesquisas Físicas, Brazil*
Crystalline hydroxyapatite thin coatings produced by Nd:YAG 532nm Pulsed Laser Deposition at room temperature
- P-146 **Dr Florent Bourquard**, *Laboratoire Hubert Curien, France*
Textured graphene synthesis by pulsed laser ablation for surface-enhanced Raman scattering
- P-147 **Dr Rongping Wang**, *Australian National University, Australia*
Laser ablation of ZnS nanoparticles in liquids
- P-148 **Emily Foka**, *University Of The Free State, South Africa*
Effect of substrate temperature on structure and luminescence properties of YVO₄:Eu thin films grown by PLD
- P-149 **Prof Cristian Focsa**, *University of Lille, France*
Rare earth doped cobalt ferrite thin films grown by PLD: influence of the deposition conditions
- P-150 **Prof Maria Dinescu**, *National Institute for Lasers, Plasma & Radiation Physics, Romania*
Tailoring the physical properties of plasma mirrors antireflection coatings
- P-151 **Dr Luis Escobar-Alarcon**, *Instituto Nacional De Investigaciones Nucleares, Mexico*
Preparation of vanadium oxide thin films modified with Ag using an hybrid deposition configuration
- P-152 **Prof Francis Dejene**, *University of The Free State, South Africa*
Characterization of structural and luminescence properties of blue-green SrAl_xO_y:Eu²⁺, Dy³⁺ thin films deposited by PLD system
- P-153 **Prof Francis Dejene**, *University of The Free State, South Africa*
Structural and luminescence properties of yellow Y₃Al₅O₁₂:Ce³⁺, thin film phosphors prepared by Pulsed Laser Deposition
- P-157 **Prof Marta Castillejo**, *Instituto de Química Física Rocasolano, CSIC, Spain*
Pulsed Laser Deposition and Characterization of Single Crystal Cobalt Ferrite Films with Biphasic Composition
- P-158 **Dr Anna Paola Caricato**, *Department Of Mathematics And Physics "E. De Giorgi", University Of Salen, Italy*
Decoration of silica nanowires forests with Au nanoparticles by PLD
- P-160 **Dr Florent Bourquard**, *Laboratoire Hubert Curien, France*
Nitrogen plasma assisted Femtosecond Pulsed Laser Deposition of a-C:N films for environmental analytical microsystems and in situ plume analysis
- P-162 **Dr Stefano Orlando**, *CNR-ISM, Italy*
ZnSb-based thermoelectric thin films by PLD and combined PLD-sputtering system
- P-163 **Abdub Ali**, *University of The Free State, South Africa*
The effect of different species of gases on material properties of Eu³⁺ doped Y₂O₂S thin films phosphor deposited by Pulsed Laser
- P-164 **Abdub Ali**, *University of The Free State, South Africa*
Effect of annealing temperature on structural and luminescence properties of Eu³⁺ -doped Y₂O₃ red phosphor thin films by PLD method.

**Laser Interactions
With Organic
And Biological
Materials**

- P-168 **Dr Olivier Uteza**, *University Aix-Marseille, France*
Control and optimization of an energetic sub-picosecond laser-driven hard x-ray K-alpha source with a high pulse repetition rate
- P-169 **Prof Andrei Rode**, *Australian National University, Australia*
New High-Pressure Silicon Phases Formed in Fs-Laser Induced Confined Microexplosion
- P-171 **Prof Jack J. Yoh**, *Seoul National University, Korea*
Thermal effects on the rapid bubble growth in the laser-induced microjet injector for transdermal drug delivery
- P-172 **Dr Akimichi Shibata**, *Keio University, Japan*
Biodegradability of poly(lactic-co-glycolic acid) after irradiation of femtosecond laser pulses
- P-173 **Dr Jørgen Schou**, *DTU Fotonik, Technical University of Denmark, Denmark*
Thin film production from a compressible organic target by laser irradiation: from material destruction at high target pressure to material
- P-174 **Dr Yuji Sato**, *Joining & Welding Research Institute, Osaka University, Japan*
Femtosecond laser induced periodic nano-structure on PET surface for controlling of cell elongation
- P-176 **Dr Esther Rebollar**, *Instituto De Química Física Rocasolano, CSIC, Spain*
Simultaneous laser induced periodic nanostructuring and diffraction-assisted micropatterning of thin polymer films
- P-177 **Simon Ashforth**, *The University of Auckland / The MacDiarmid Institute for Advanced Materials & Nanotechnology and The Dodd Walls Centre for Quantum & Photonic Technologies, New Zealand*
Ultrashort laser ablation of load bearing and skull cortical bone tissue: A comparative study
- P-179 **Dr Egor Loktionov**, *Bauman Moscow State Technical University, Russia*
Laser ablation of UV curing polymer and compositions
- P-180 **Takuya Kawa**, *Graduate School of Engineering, Osaka University, Japan*
Periodic Nanostructures Produced on Ti Substrate with Femtosecond Laser for Controlling of Cell Spreading in Multi Direction
- P-181 **Dr Miklos Füle**, *High Intensity Laser Laboratory, Department of Exp. Physics, University of Szeged, Hungary*
The influence of pulse duration, wavelength and fluence on laser induced structure formation from the viewpoint of dental applications
- P-182 **Dr Premysl Fitl**, *University of Chemical Technology Prague, Czech Republic*
Patterning of organic semiconductors for photovoltaic applications by LIFT technology
- P-183 **Dr Valentina Dinca**, *National Institute for Lasers, Plasma & Radiation Physics, Romania*
Human mesenchymal stem cells interaction with nano and microtextured surfaces
- P-184 **Dr Valentina Dinca**, *National Institute for Lasers, Plasma & Radiation Physics, Romania*
Sericin-tethered graphene artificial composite matrix obtained by MAPLE for MC3T3-E1 pre-osteoblasts studies
- P-185 **Prof Nikita Bityurin**, *Institute of Applied Physics, RAS, Russia*
Indirect laser surgery
- P-186 **Dr Koji Sugioka**, *RIKEN Center for Advanced Photonics, Japan*
Hybrid subtractive and additive 3D microprocessing using femtosecond laser for functional biochip fabrication
- P-187 **A/Prof Michael Ziskind**, *Laboratoire De Physique Des Lasers, Atomes Et Mole'cules Laboratoire De Physique, France*
Development of a real time mass spectrometry instrument for non-invasive ex-vivo and in-vivo analysis based on IR laser ablation
- P-188 **Dr Syarifah Aqida**, *Universiti Malaysia Pahang, Malaysia*
Interfacial Indentation Test of Laser Surface Modified AISI H13 tool steel thermal barrier coatings
- P-189 **Dr Sung Hyun Pyun**, *Korea Institute of Machinery & Materials, South Korea*
Laser induced breakdown spectroscopy for in situ elemental analysis of deep sea minerals
- P-190 **Dr Cristina Popa (Achim)**, *National Institute For Laser, Plasma And Radiation Physic/University Politehnica, Romania*
Laser spectroscopy for noninvasive gas monitoring in patients with dysfunctions
- P-191 **Aparna Neettiyath**, *Indian Institute of Technology Madras, India*
Analysis of copper sulfide contaminant in solid transformer insulation using vacuum ultraviolet laser induced breakdown spectroscopy

**Laser-Based
Analytical
Methods**

- P-193 **Dr Peter Gregorcic**, *Faculty Of Mechanical Engineering, University Of Ljubljana, Slovenia*
Laser-induced breakdown spectroscopy and shadowgraphic analysis of selective thin-layers removal by laser ablation
- P-194 **Patrick Skrodzki**, *CMUXE, School of Nuclear Engineering, Purdue University, USA*
Role of Material Properties on Signal Enhancement in Nd:YAG-CO₂ DPLIBS
- P-195 **Dr Burkhard Fechner**, *Coherent LaserSystems GmbH & Co. KG, Germany*
Laser Ablation Sampling at Ultrashort Wavelength
- P-196 **Dr Alessandro De Giacomo**, *University Of Bari, Italy*
Nanoparticles Enhanced Laser Induced Breakdown Spectroscopy: applying nanoparticle to LIBS
- P-197 **Prof Dan Dumitras**, *National Institute for Laser, Plasma & Radiation Physics, Laser Department, Romania*
Spectroscopic analysis of the breath from subjects with type 2 diabetes
- P-199 **Prof Nilesh Vasa**, *Indian Institute Of Technology Madras, India*
Suitability of laser-induced breakdown spectroscopy in screening potential additives to mitigate fouling deposits
- P-200 **Dr Valentin Serban Teodorescu**, *National Institute For Materials Physics, Romania*
Fast atomic diffusion in solid state amorphous thin films irradiated with low fluence laser pulse in UV
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