

Poster Board Session Assignments

Poster Board #	Abstract #	Talk	Presenter
Monday, September 12, 2005			
MoPO1	002	Industrially-Scaled Tribological Coating by PLD and Hybrid PLD	Juergen Lackner
MoPO2	003	Modelling of a Water Plasma: Study of the Departures from Radiative Equilibrium	Riadh Riahi
MoPO3	006	New Regime of Laser-Induced Ionization of Solids	Vitali E. Gruzdev
MoPO4	007	Thin Films Growth Parameters in MAPLE Technology	M. Jelinek
MoPO5	008	Laser Induced Breakdown Spectroscopy in Aqueous Solution- Sample Presentation Considerations	S. R. Ahmad
MoPO6	009	Pulsed Laser Deposition for Coating Applications	Ralph F. Delmdahl
MoPO7	010	Properties of Gold Nanoparticles Formed by Laser Ablation in Water	Nikolai.V. Tarasenko
MoPO8	011	A Laser Beam Model for High Performance Microdrilling	Sylvain Lazare
MoPO9	012	Real Time Characterization of Pulsed Laser Deposition of Magnetic Oxide Thin Films by Ellipsometry	P.R. Dahoo
MoPO10	013	Laser Bulk Structuring and Filamentation in Optical Materials by Sub-Picosecond Ultraviolet Pulses	I. Zergioti
MoPO11	014	Glass Wafer Singulation by Femtosecond and Nanosecond lasers	Qiong Xie
MoPO12	016	CO2 laser cladding of VERSAlloy on SM20C with powder feeding	Jae-Do Kim
MoPO13	017	Field-Free Time-of-Flight Mass Spectrometric Measurements of Neutral and Cation Components of a UV Matrix Assisted Laser Desorption/Ionization Plume	David Ermer
MoPO14	019	Femtosecond Laser Processing of Silicon for High Aspect Ratio Holes and the Formation of Nano-Scale Silicon Particles	Dennis R. Alexander
MoPO15	031	Comparison of Morphology Evolution of Ge(001) Homoepitaxial Films Grown by Pulsed Laser Deposition and Molecular Beam Epitaxy	Byungha Shin
MoPO16	023	Nitridation of Titanium Surface by the Irradiation of YAG Laser Pulses in N ₂ /O ₂ Gas Mixture and Liquid Nitrogen	N. Takada
MoPO17	025	Generation of Nanoparticles in Laser Ablation: Combined MD - DSMC Computational Study	Tatiana E. Itina
MoPO18	027	Surface Processing of Graphite-Like Hexagonal Boron Nitride Under Picosecond Uv Laser Irradiation	A. Kanaev
MoPO19	029	Effects of Excimer Laser Annealing on Perovskite Thin Film Structure and Gas-Sensor Properties	Xiaomei Du
MoPO20	030	Laser Ablation of Nanoscale Materials with 193 nm Light	Donald Lucas
MoPO21	020	Reaction Between Laser Ablation Plume and Ambient Studied by Laser-Induced Fluorescence Imaging Spectroscopy	K. Sasaki
MoPO22	021	Visualization of the Temporal Variation of C2 Temperature in Laser Ablation Plumes Produced From a Graphite Target	K. Sasaki
MoPO23	033	Nanoscale Patterning by Pulsed Laser Irradiation in Near Field	Hong Minghui
MoPO24	034	Thermoelastic modeling of microbump and nanojet formation on gold nanosize films under femtosecond laser irradiation	Nadezhda M. Bulgakova
MoPO25	036	A Molecular Dynamics Study of Non-equilibrium Processes under Ultrafast Laser Irradiation	Arun K.Upadhyay
MoPO26	037	Multi-photon Effects in Nanomachining of SiC by a Nanosecond Pulsed Laser	Shaochen Chen
MoPO27	043	Crystallized Hydroxyapatite Coatings Deposited by PLD With Targets of Different Densities	Masahito Katto
MoPO28	044	Laser Ablation and Depth Control	Michael Kuhl
MoPO29	045	Laser Ablation-Inductively Coupled Plasma Mass Spectrometry – The Influence of Particle Formation on Quantitative Analysis	D. Günthe
MoPO30	046	Explosive Crystallization From A Long Pulse Excimer Laser : Application To The Formation Of Highly Doped Junction Formation Of Cmos Devices	J. Venturini
MoPO31	047	Organic Active Layers for Chemical Sensors Prepared by MAPLD	Martin Vrnata
MoPO32	049	Micromachining of Silicon Carbide Using Femtosecond Lasers	M. Farsari
MoPO33	052	One-Dimensional Numerical Simulation of Laser-Driven Flyer Plates	GU Zhuowei
MoPO34	053	Laser Ablative Micromachining of Monolithic, Metal, High-Current Cathodes	R.M. Gilgenbach
MoPO35	054	Laser Ablation of Metal and Plume Expansion into 1 atm Ambient Gas: A Two-Dimensional Two-Temperature Model	Zhaoyang Chen
MoPO36	055	Excimer Laser Ablation Method for Synthesis of Carbon Nanotubes	Mitsuhiro Kusaba
MoPO37	059	Modeling Chemical Kinetics of Small Clusters at Nanosecond Laser Ablation	Andrey V. Gusarov
MoPO38	060	Evaluation and Control of the Uniformity of Drug Nanoparticles Directly Deposited on the Particulate Surfaces of Excipient By PLD	Sanshiro Nagare
MoPO39	061	Development and Evaluation of Hierarchical Units in the Deposited Protein Films by IR Laser	M. Senna
MoPO40	062	Elimination of large particulate units from silk fibroin PLD films by post-treatments	S. Nakayama
MoPO41	063	Laser-Generated Microshells and Nanojets on Metal Surfaces	Jürgen Koch
MoPO42	064	Effective Ablation of Hard Bone Tissue with Minimal Thermal Side Effects Using Pulsed CO ₂ Laser	Mikhail Ivanenko
MoPO43	065	Laser Cleaning of Monuments' Metal Surfaces - Research, Potential, and Practice	Peter Mottner
MoPO44	067	Molecular Dynamics Simulation of Ultra-fast Laser Ablation of Fused Silica	Xianfan Xu
MoPO45	069	Incubation Behaviour in Triazene-polymer Thin Films Upon Near-Infrared Femtosecond Laser Pulse Irradiation	Thomas Lippert
MoPO46	070	High Repetition Rate and Low Energy Femtosecond Laser Ablation Coupled to ICPMS Detection: A New Analytical Approach for Trace Elements Determination in Solid Sample	Christophe Pécheyran
MoPO47	071	Laser Ablation as an Enabling Technology for the Structuring of Optical Multilayer Structures	Nina Hendrickx
MoPO48	072	Pulsed Laser Deposition of Iron-Doped and Free-Standing Thin Films of Ferromagnetic Shape-Memory Ni-Mn-Ga Alloys	Antti Hakola
MoPO49	073	Nano-Spallation from Silica Film Surfaces by Acoustic Wave Emitted by Laser-Heated Artificial Nano-Inclusions	Susan D. Allen
MoPO50	076	Photoacoustic Monitoring of Linear and Non-Linear Thermal Laser-Particle and Laser-Cell Interactions at Single Microparticle/Cell Level	Susan D. Allen
MoPO51	074	Molecular Dynamics Simulations of Matrix-Assisted Laser Evaporation (MAPLE) for Deposition of Nanocomposites	E. Leveuge

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Poster Board #	Abstract #	Talk	Presenter
MoPO52	078	Preparation of Superhard Tetrahedral Amorphous Carbon Films with Low Internal Stress by means of Excimer Laser Ablation and Annealing	Steffen Weissmantel
MoPO53	079	Microstructuring of Silicon, Glasses and Metals Using Femtosecond Laser Ablation	Guenter Reisse
MoPO54	080	Free Electron or Excimer Laser Direct Write of Polylactic Acid Containing Fluorescence Agent Onto a Pearl for Marking	Kaoru SUZUKI
MoPO55	081	(LaO)CuS and ZnO Films Deposition by Plasma-Assisted Laser Ablation Method	Yohei Shimizu
MoPO56	083	Dual Targets Off-Axis Ablation for Carbon Nanotubes Synthesis	Catalin R. Luculescu
MoPO57	084	Structural, Optical, and Mechanical Properties of PbTiO ₃ Waveguides Grown by Pulsed-Laser Deposition	E. Millon
MoPO58	086	Capabilities of Laser Desorption Mass Spectrometry with or without Matrix to Characterize Molecular Nanoclusters	Frédéric Aubriet
MoPO59	087	Ultrafast Laser Assisted Field Evaporation and Atom Probe Tomography Applications	Eric Mottay
MoPO60	089	A New Approach to Laser Material Processing: Synchronous, Digitally-Scripted Genotype Sequencing and Pockels Cell Modulation	Frank Livingston
MoPO61	091	Electrochromic WO ₃ Fabricated by Laser Assisted Molecular Beam Deposition	Ralph Deleon
MoPO62	094	A High-Power Laser Ablation Ion Source for Penning Trap Studies of Nuclear Reaction Products	D.A. Davies
MoPO63	095	Investigations of Particles Generated by 266-nm Laser Ablation During the Surface Decontamination	Doh-Won Lee
MoPO64	096	Aggregation Mechanism of Si Nanocrystals During Pulsed Laser Ablation in Background Gas	Ikuro Umezu
MoPO65	098	Pulsed Laser Epitaxy of p-type ZnO Realizing Light Emitting Diode	Masashi Kawasaki
MoPO66	100	Large- and Small-Area Metal Films Produced by Pulsed Laser Deposition	Nini Pryds
MoPO67	101	Laser Processing of Polyethylene Glycol and Mussel Adhesive Protein Analogs by Matrix Assisted Pulsed Laser Evaporation Technique	Rodica Cristescu
MoPO68	103	Excimer Laser Nanostructuring of Thin Metal Films	Simon J Henley
MoPO69	105	Doping of Silicon by Carbon during Laser Ablation Process	Gediminas Račiukaitis
MoPO70	107	Growth of GaAs "Nano Ice Cream Cones" by Dual Wavelength Pulsed Laser Ablation	Tom Schamp
MoPO71	109	Localized Synthesis of Single-Walled Carbon Nanotubes on Silicon Substrate by Laser Heating Catalytic CVD	Masamichi Kohno
MoPO72	110	Laser Micro Fabrication and Drilling of Opaque Materials Using a Bessel Beam	Shinji Kawauchi
MoPO73	111	Si-K _α Radiation Generated by the Interaction of Femtosecond Laser Radiation with Crystalline and Porous Silicon	Alexander Horn
MoPO74	112	Debris Analyses in the Femtosecond Laser Ablation of Titanium	Hitoshi Nakano
MoPO75	113	Numerical Modeling of Pulsed Laser Ablation of Carbon Particles in an Aerosol	A.N. Volkov
MoPO76	114	On the Mechanism of Ultra Short Laser Ablation of Biological Tissue: Velocity-Distribution and Pulse Width Dependence of Neutrals	Wolfgang Husinsky
MoPO77	115	Study of the Ablation Mechanisms of ZnO at Laser Wavelengths of 266 and 308 nm	Margarita Martín
MoPO78	119	Excimer Laser-Induced Material Modification to Create Nanometer High Smooth Patterns in Glass Using Mask Projection	Thomas Rudolph
MoPO79	120	Backside Etching of Fused Silica with Ultra-Short Laser Pulses at the Interface to Absorbing Liquid	Klaus Zimmer
MoPO80	121	Study of Si/SiO ₂ Nanoparticles Produced by Laser Ablation	Constantin Grigoriu
MoPO81	124	Laser Induced Nanobump Array on Magnetic Glass Disk for Low Slider Flying Height Application	Waldemar Mróz
MoPO82	127	Analysis of Laser-Induced Hydrodynamic Phenomena in the Laser Shock Cleaning Process	Dongsik Kim
MoPO83	131	Laser Ablation of Silver in Aqueous Ambient: Effect of Laser Pulse Wavelength and Energy on Efficiency of the Process	Petr Šmejkal
MoPO84	132	Optimization of Pulsed Laser Deposition of SrBi ₂ Ta ₂ O ₉ Thin Films on Pt(111) Electrode	R. I. Tomov
MoPO85	133	Dynamics of Cluster Emission Under Femtosecond Laser Ablation of Silicon: Pump-Probe Measurements and Theoretical Analysis	A.V. Bulgakov
MoPO86	134	Novel Approach for Synthesis of Photoluminescent Silicon and Germanium Nanoparticles by Laser Ablation	Daria Riabinina
MoPO87	135	Laser Induced Modification and Ordering of Silver Nanoparticles	E. Haro-Poniatowski
MoPO88	136	Effect of Molecular Weight on UV Laser Ablation of Doped Polymers: Physicochemical Modifications and Properties of Ejecta	Marta Castillejo
MoPO89	138	High Power Picosecond Mid-IR Source for Polymer Ablation	Barry Luther-Davies
MoPO90	139	Laser Ablation of Ag in Water: Shift and Broadening of Emission Line Profile of Ablated Ag Atoms	Satoru Masai
MoPO91	140	Effect of Citrate Ions on Laser Ablation of Ag Foil in Aqueous Medium	Karolina Siskova
MoPO92	141	Micro Patterning of Fused Silica by ArF- and F ₂ -Laser Ablation	Jürgen Ihlemann
MoPO93	142	Apparent Excitation Temperature in Laser-Induced Plasmas	José Antonio Aguilera
MoPO94	280	Laser Assisted Fabrication of a Resonant Angular Rate Sensor	Stella Duhalde
MoPO95	254	Low Temperature Growth of Epitaxial PZT/LSMO/LAO Film by Excimer Laser Metal Organic Deposition	T. Tsuchiya
MoPO96	255	Preparation and Characterization of Epitaxial SnO ₂ Thin Films by Excimer Laser Metal Organic Deposition	T. Tsuchiya
MoPO97	271	Photoacoustic Study of Laser-Induced Dethorning of Nopal Cladodes	M. Arronte
MoPO98	269	Emission Spectroscopy Analysis During Nopal Cladodes Dethorning by Laser Ablation	M. Arronte

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Poster Board #	Abstract #	Talk	Presenter
Tuesday, September 13, 2005			
TuPO1	032	Elimination of Surface Debris Generated by KrF Excimer Laser Ablation of Polymer	Dong Sig Shin
TuPO2	028	Laser Processing of New Hybrid Organic-Inorganic Materials Based on Titanium Oxide Gels	A. Kanaev
TuPO3	039	A Laser Beam Model for High Performance Microdrilling	Sylvain Lazare
TuPO4	040	Optical Limiting Phenomena of Carbon Nanoparticles Prepared by Laser Ablation in Liquids	Hong Minghui
TuPO5	042	2D Modeling of Dielectric Breakdown with Temporally Shaped Femtosecond Laser Pulses: Application to Surface Structuring	N.M. Bulgakova
TuPO6	048	Optimizing Pulsed Laser Deposition Parameters of SmFeO_3 from Optical and Magneto-Optical Property Characterization	P.R. Dahoo
TuPO7	050	Influence of Laser-Pulse Width and Electron-Phonon Relaxation Time on Materials Processes in Ultrafast-Laser Ablation	Arun K.Upadhyay
TuPO8	085	Growth of LiNbO_3 Thin Films on Sapphire by Pulsed-Laser Deposition for Electro-Optical Modulators	E. Millon
TuPO9	092	High Mobility ZnO and GaN Fabricated by Laser Assisted Molecular Beam Deposition	Ralph Deleon
TuPO10	093	Effect of Coherent Carrier-Lattice Interactions on Dry Fs-Laser Cleaning of Critical Surfaces	Susan D. Allen
TuPO11	104	Plume Emissions Accompanying the Growth of Nanostructured Amorphous Carbon by Pulsed Laser Ablation	Simon J Henley
TuPO12	116	Mechanisms of SiO_m Cluster Formation and Fragmentation in the Laser Ablation of SiO Targets at 266 nm	Margarita Martín
TuPO13	122	Synthesis and Optimization of Tungsten and Tungsten Oxide Films Produced by Laser Ablation	Constantin Grigoriu
TuPO14	128	Effect of Laser Irradiation on Thermal Conductivity of ZnO Nanofluids	Dongsik Kim
TuPO15	137	Pulsed Laser Deposition of Polymers Doped with Fluorescent Probes. Application to Environmental Sensors	Marta Castillejo
TuPO16	143	Chemical Effects in the 248 nm Femtosecond Ablation of Doped Polymers	Marta Castillejo
TuPO17	144	UV-Assisted Selective Chemical Etching of Submicron Period Relief Gratings in Er/Yb-Codoped IOG 1 Phosphate Glass	S. Pissadakis
TuPO18	145	Laser Processing of Polymer Nanocomposite Thin Films: Experimental and Computational Methodologies	Aaron T. Sellinger
TuPO19	146	Local Growth of Aligned Carbon Nanotubes by Laser-Induced Surface Modification of Coated Surfaces	Klaus Zimmer
TuPO20	147	Femtosecond Laser Structuring for Interconnection of Thin Film Solar Cells	David Ruthe
TuPO21	148	Simulations of Laser Ablation of Poly(methyl methacrylate)	Patrick F. Conforti
TuPO22	149	Ionization in Vacuum Ultraviolet F_2 Laser ablated Polymer Plumes	Peter E Dyer
TuPO23	150	Long-Range, Arrayed Nano-Planes Produced Inside Fused Silica in the Moving Focus of a Femtosecond Laser Beam	David Rayner
TuPO24	152	Electron Microscopy Observations of an Amorphous Layer Formed by Femtosecond Laser Irradiation of Silicon	T.H.R. Crawford
TuPO25	153	Fabrication of Laser Active Er^{3+} :ZBLAN Planar Waveguides by Pulsed Laser Deposition and Femtosecond Laser Structuring	Jens Gottmann
TuPO26	155	Quantitative Emission from Femtosecond Microplasmas for Laser-Induced Breakdown Spectroscopy	Michael T. Taschuk
TuPO27	157	Sub-Wavelength Ripple Formation on Various Materials Induced by Tightly Focused Femtosecond Laser Radiation	Ralph Wagner
TuPO28	158	Prompt Electron Emission During Nanosecond Laser Ablation of Tin	S. S. Harilal
TuPO29	159	Time Resolved Images of Particle Ejection During Laser Ablation	Chunyi Liu
TuPO30	160	Study of High Power Laser Induced Vapor Plume Expansion in Background Air	Sy-Bor Wen
TuPO31	161	Growth of Carbon Nanofiber on Metal-Catalyzed Substrates by Laser Ablation of Graphite	Y. Suda
TuPO32	163	Femtosecond Laser Ablation-Based Synthesis of Colloidal Nanoparticles in Aqueous Environment	Michel Meunier
TuPO33	165	Dependence of Femtosecond Laser Ablation for Organic Molecules on Chosen Substrate	Mizuki Kurata-Nishimura
TuPO34	166	Kinetic Energy of Ions Produced With First-, Second-, and Multi-Shot Femtosecond Laser Ablation on a Solid Surface	Tohru Kobayashi
TuPO35	167	Femtosecond-Pulsed Laser Deposition of Diamond-Like Carbon Films Onto Silicone Rubber	Satoshi Yoshida
TuPO36	168	Comparison Between Femtosecond and Nanosecond Laser Ablation of Solution Samples Applied on a Substrate	Toshiyuki Kato
TuPO37	169	Epitaxial Growth of b-FeSi_2 Thin Films on $\text{Si}(100)$ Substrates from e-FeSi Targets by ArF Excimer Laser Deposition	Yasuo Takigawa
TuPO38		Blank	
TuPO39	172	Ablation of Solids by Short Pulse Lasers: Mechanisms of Ablation, Ablation Thresholds and Rates	Eugene G. Gamaly
TuPO40	175	A Deep Micro-Trench on Silica Glass Fabricated by Laser-Induced Backside Wet Etching (LIBWE)	Yoshizo Kawaguchi
TuPO41	178	Pulsed Laser Deposition of Memory Alloy NiTiCu Thin Film	A.Morone
TuPO42	179	The Effects of Electric Field on the Laser-Produced Zn Plasma Plume	Seung Min Park
TuPO43	180	Preparation of II-VI Semiconductor Nanocrystals Using Pulsed Laser Ablation in Liquid	Takeshi Sasaki
TuPO44	183	Synthesis of Photoluminescent Colloidal Silicon Nanoparticles by Pulsed Laser Ablation in Liquids	Ikuro Umezu
TuPO45	184	Micropatterning onto the SiO_2 Coated Si Surface Using Femtosecond Laser Diffraction	Yuko Fukami
	075	Microscopic visualization of laser cleaning mechanisms-	Susan D. Allen
TuPO46	186	Fabrication and Properties of Rare Earth Doped Gallium Gadolinium Orthogallate Films Prepared by PLD	J. Lancok
TuPO47	187	Sub-Micron Patterning of Complex Oxides by Stencil Deposition	Paul te Riele
TuPO48	189	Metal Nanocolumns Produced by Pulsed Laser Deposited Silver Nanostructures	J��r��mie Margueritat

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Poster Board #	Abstract #	Talk	Presenter
TuPO49	191	Laser Direct Writing of Thin-Film Structures as a Modification of Lithographic Processes	Frank Meyer
TuPO50	192	Melting Hysteresis in Bismuth Nanocrystals Embedded in Al_2O_3 : Size Effects	E. Haro-Poniatowski
TuPO51	193	Direct Surface Micro-Patterning of Self Assembled Monolayers using a CW Laser Beam: Curvilinear Paths and Various Junction Types	M. Reza Shadnam
TuPO52	194	Model for Laser Aggregation of Water-Soluble Proteins Including Eye	N. Bityurin
TuPO53	196	Self-Organized Pattern Formation upon Femtosecond Laser Ablation: Circular Polarization	Juergen Reif
TuPO54	197	Interaction of Fullerene Clusters (C_{60}) _n and (C_{70}) _n with Femtosecond Laser Radiation: Evidence for Molecular Fusion	A.V. Bulgakov
TuPO55	198	Chalcogenide Thin Films for Waveguide Applications	T. W. Allen
TuPO56	200	Simulation of Gun Bore Erosion using Laser Pulse Heating	Jeffrey Warrender
TuPO57	202	Computational Study of Cooling Rates and Recrystallization Kinetics in Short Pulse Laser Quenching of Metal Targets	William H. Duff
TuPO58	203	Residual Thermal Effects in Laser Ablation of Metals	Anatoliy Y. Vorobyev
TuPO59	204	Plume Diagnostics and Room Temperature Deposition of Nanostructured Carbon Onions and Tubes	Gouri Radhakrishnan
TuPO60	206	Femtosecond Laser Pulse Desorption and Patterning of Self-Assembled Monolayers on Gold-Coated Substrates	Sean E. Kirkwood
TuPO61	207	Submicron Scale Three-Dimensional Structure Writing using Two-Photon Absorption Process	Z. R. Chowdhury
TuPO62	209	Formation of Diamond-Like Carbon at Target Plane in Pulsed Laser Ablation of Graphite	Seong-Shan Yap
TuPO63	210	Wavelength Dependence on the Formation Of SiO_2 Films by Ultraviolet-Laser-Induced Photochemical Deposition Using Silicone Rubber	Narumi Inoue
TuPO64		Blank	
TuPO65	212	Pulsed Laser-Induced Effects in the Material Properties of Tungsten Thin Films	R. Evans
TuPO66	213	Characteristics of Nanosecond Laser Ablation of Bulk Cu, Al, Stainless Steel and Bronze	R. Maisterrena-Epstein
TuPO67	214	Local Deformation and Recovering Processes of Single Animal Cell by Focused Femtosecond Laser Beam	Yoichiroh Hosokawa
TuPO68	216	Crystallization of Organic Molecules in its Supersaturated Solution Enforced by Focused Femtosecond Laser Irradiation	Hiroshi Y. Yoshikawa
TuPO69	217	Increase of Laser Micro Ablation Rate of Metals Using Multipulses	Claudia Hartmann
TuPO70	218	Theoretical Analysis of the Formation of Microstructures on the Laser Ablated Surfaces	J.C. Conde
TuPO71	219	Deposition and Crystallinity of Metallic Films	M D Cropper
TuPO72	220	Nucleation and Aggregation Processes in Protein Solution by Femtosecond Laser-Induced Shockwave	Kazuhiko Nakamura
TuPO73	221	Nanoparticle Formation in the Expansion Process of a Laser Ablated Plume	Toshio Takiya
TuPO74	222	Optimization of Nanoparticle Production by Laser Ablation With Tailored Ultrashort Pulses	V. Hommes
TuPO75	223	Plasma Dynamics During Ns-Laser-Pulse Reheating of a Titanium Plasma Induced in Air by an Ultra Short Laser Beam	Stefano Orlando
TuPO76	225	Parametric Study of Polycyclic Aromatic Hydrocarbons Laser Desorption	M. Ziskind
TuPO77	227	Laser-Based Microthrusters: A Correlation of Thrust With Material, Plasma and Shockwave Properties	Thomas Lippert
TuPO78	230	Laser Micromachining Using F2-Laser - A Machine Concept for New Materials in R&D and Examples of Material Processing Results	Jens Hänel,
TuPO79	232	UV Ultrafast Laser Processing Using Phase Masks	P. Simon
TuPO80	233	Properties of Superhard Pulsed Laser Deposited ta-C and c-BN Films	Dirk Rost
TuPO81	234	Investigation of the Formation of Nanostructures on Silicon Thin Films After Excimer Laser Irradiation	Julia Eizenkop
TuPO82	235	ZnO Nanostructures Grown by the Pulsed Laser Deposition Technique	Jean Paul Mosnier
TuPO83		Blank	
TuPO84	237	PLD-grown Yb2O3 Thin Films on Sapphire and Quartz Substrates	Hanno Scheife
TuPO85	239	1.5mm Light Emission of Er^{3+} Ions Doped in SiO_2 Films Including Si Nanocrystallites and in SiO_x Films	Tetsuya Makimura
TuPO86	240	Langmuir Probe Diagnosis of Laser Ablation Plasmas	James G Lunney
TuPO87	241	Pulsed Laser Deposition of Er^{3+} Doped Tellurite Films on Large Area	A.P. Caricato
TuPO88	242	Pulsed Laser Deposited Perovskite Oxides Based Heterostructures on Strontium Ruthenate Bottom Electrodes	Olivier Gautreau
TuPO89	244	Ferromagnetism in Doped-TiO ₂ Thin Films	Stella Duhalde
TuPO90	252	Resistive Switching Induced by Electric Fields in Transition Metal Oxide Thin Films	Stella Duhalde
TuPO91	245	Carbon-Nanotube Cathode Modified by Femtosecond Laser Ablation	Masaki Hashida
TuPO92	246	Effects of Deposition Parameters on the Properties of Amorphous Carbon Nitride Thin Films Prepared by Laser Ablation	L. Escobar-Alarcón
TuPO93	258	Ultrashort Laser Ablation of Solid Targets Irradiated by 0.1-1 Ps Laser Pulses	Marco Vitiello
TuPO94	266	Combinatorial Synthesis and Magnetic Properties of Transparent and Semiconducting Co and Li Co-Doped Homoepitaxial NiO(100) Thin Films	Utpal S. Joshi
TuPO95	272	Determination of Hermite Gaussian Modes Using the Moving Knife-Edge Method	M. Arronte
TuPO96	273	Laser-Induced Stress Field Pattern on Silicon Surfaces	M. Arronte

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Poster Board #	Abstract #	Talk	Presenter
Thursday, September 15, 2005			
ThPO1	022	Diagnostics of Liquid-Phase Laser Ablation Plasmas by Spectroscopic Methods	K. Sasaki
ThPO2	041	Nanoscale Patterning by Pulsed Laser Irradiation in Near Field	Hong Minghui
ThPO3	068	Thermal and Gasdynamic Analysis of Ablation of Polymethyl Methacrylate by Pulsed IR Laser Under Conditions of Nanoparticle Formation	N.M. Bulgakova
ThPO4	099	The Model of Cluster Formation in a Laser-Induced Plume	N.M. Bulgakova
ThPO5	097	Near-Spinode Explosive Bubble Nucleation and Hydrodynamic Instabilities on Laser-Irradiated Free Graphite Surfaces	Susan D. Allen
ThPO6	129	Fs Laser Ablation Of Metals and Crater Formation by Phase Explosion in High-Fluence Regime	Dongsik Kim
ThPO7	156	Laser Processing of Crystalline Fe and Al Based Glass-Forming Alloys for Enhanced Corrosion Resistance	Tomohiro Aburada
ThPO8	176	IR, VIS and UV Laser Interaction with Gelatine	Marta Castillejo
ThPO9	185	Plume Analysis During Pulsed Laser Ablation of Silicon in Hydrogen Gas	Ikuro Umezū
ThPO10	190	Magnetic Properties of Co and CoO ₂ Nanoparticles Produced by Pulsed Laser Deposition	Jérémie Margueritat
ThPO11	208	Enhanced Absorptance of Metals Following Multi-Pulse Femtosecond Laser Ablation	Anatoliy Y. Vorobyev
ThPO12	224	Fs/ns-Dual-Pulse Orthogonal Geometry Plasma Plume Reheating for Compositional Analysis of Ancient Copper-Based-Alloy Artworks	Stefano Orlando
ThPO13	226	Spatial Resolution of 3D Nanopolymerization	N. Bityurin
ThPO14	228	Nanomilling Surfaces Using Near-Threshold Femtosecond Laser Pulses	Sean E. Kirkwood
ThPO15	231	Selective Laser Processing Of Flexible CuInSe ₂ -Solar Cells-Layer Using Ultra Short Pulse Durations And Different Wavelengths – The Results As Well As A Machine Concept	Jens Hänel,
ThPO16	247	Simulation of the Thermionic Emission During Ultrashort Pulse Laser Ablation of Metals	S. H. Jeong
ThPO17	248	The Role of Ballistic Electrons in The Ultrashort Laser Ablation of Metallic Targets: A Monte Carlo Approach	Marco Vitiello
ThPO18	249	Wear Resistance Improvement of Al ₂ O ₃ Microstructured with Fs Laser Pulses	Pablo Moreno
ThPO19	250	Microstructural Characterization of Chromium Oxide Thin Films Grown by Remote Plasma Assisted Pulsed Laser Deposition	Malek Tabbal
ThPO20	251	UV Laser Controlled Quantum Well Intermixing in InGaAlAs/GaAs Heterostructures	Jonathan Genest
ThPO21	253	Study of the Plasmas Produced in a Hybrid Magnetron-Laser Deposition System Used for TiC and SiC Thin Film Preparation	M. Jelinek
ThPO22	335	UV-Femtosecond Laser Ablation of SrTiO ₃ Single Crystals	S. Zoppel
ThPO23	257	Nano-Graphene Particle Formation and Texturing in Carbon Films by Nd:YAG Pulsed Laser Ablation of Graphite	Emilia Cappelli
ThPO24	259	F2 Excimer Laser (157 nm) Ablation of Polymers: Relation of Fragment Detection, Plasma Onset and Absorption	Thomas Lippert
ThPO25	260	Modification of Some Organic Compounds by Synchrotron Radiation	Takehiro Yamada
ThPO26	261	Ablation of Metal-Containing Perylene Tetracarboxylic Dianhydride with 3 rd Harmonic of Nd:YAG Laser	Satoru Nishio
ThPO27	262	Amorphous Carbon Structure Dependence on the Laser Ablation Plasma Parameters	E. Camps
ThPO28	263	Zirconium Diboride Femtosecond PLD	Roberto Teghil
ThPO29	264	Pulsed Laser Deposition of Undoped and Neodymium-Doped Gallium Lanthanum Sulphide Glasses for Photonic Applications	Trevor W. Allen
ThPO30	265	Magnetic Study of Pulsed Laser Ablated Transition Metal Doped Thin NiO layers	Utpal S. Joshi
ThPO31	267	Ferroelectric Mesoscopic Structures By Room-Temperature PLD	C. Harnagea
ThPO32	268	Influence of Chromatic Aberrations on Parameters of a Broadband Argon Laser Beam	M. Arronte
ThPO33	274	Langmuir Probes in a Silver Ablation Plume: A Study of the Probe Geometry	Jörgen Schou
ThPO34	275	Electrodes for Microfluidic Devices Produced by Laser Induced Forward Transfer	Chris Germain
ThPO35	276	Hydrodynamic Multi-Phase Model for Simulation of Laser-Induced Non-Equilibrium Phase Transformations	Alexey Volkov
ThPO36	277	Si Microcones Growth by IR Nanosecond Pulses	J.L. Hernández-Pozos
ThPO37	278	Modeling of Short Laser Pulse Energy Deposition in Transparent Media	François Vidal
ThPO38	279	Simulation of Femtosecond Laser Ablation of Silicon	Y.Y. Tsui
ThPO39	281	Optimization of Single Walled Carbon Nanotubes Preparation Yield and Purity by Use of Near-Infrared Spectroscopy	J. Cech
ThPO40	282	Resonant Infrared Pulsed Laser Deposition of Polyimide	Kenneth E. Schriver
ThPO41	286	Holographic Laser Fabrication of 3D Woodpile Photonic Structures with Phase Masks	Ladan E Abolghasemi
ThPO42	287	Direct Laser Ablation and Ionization of Solids for Chemical Analysis by Mass Spectrometry	Greg Klunder
ThPO43	288	Laser Surface Modification of Ti Implants to Improve Osseointegration	Stella Duhalde
ThPO44	289	Embedding Semiconductor Devices Using Laser Direct-Write	Alberto Piqué
ThPO45	291	b-FeSi ₂ Thin Film Preparation without Fragments from Various Kinds of Iron Silicide Targets by ArF Excimer Laser Deposition	Yasuo Takigawa
ThPO46	292	Microstructures Formation on Titanium Plate by Femtosecond Laser Ablation	Masahiro Tsukamoto
ThPO47	294	Structural and Optical Properties of ZnMgO Thin Films Grown by Pulsed Laser Deposition Using ZnO-MgO Multiple Targets	Toshihiko Maemoto
ThPO48	295	A Study on Electro-Magnetic Energy Distribution of Modified Probe for NSOM-Lithography	J.-B. Kim
ThPO49	297	Laser-Induced Photoemission as a Probe of Slip Band Formation in Single Crystal and Polycrystalline Aluminum During Uniaxial Deformation	M. Cai
ThPO50	298	Deep Ultraviolet Laser Micromachining of Novel Fiber Optic Devices	Jianzhao Li
ThPO51	300	Color Marking of Transparent Materials by Laser-Induced Plasma-Assisted Ablation (LIPAA)	Yasutaka Hanada
ThPO52	301	Heat Accumulation During High Repetition Rate Ultrafast Laser Interaction: Waveguide Writing in Borosilicate Glass	Haibin Zhang
ThPO53	302	F2-Laser Microfabrication of Multilevel Diffractive Optical Elements	Mi Li Ng

Poster Board Session Assignments

Poster Board #	Abstract #	Talk	Presenter
ThPO54	303	3-D Micro Fabrication Inside the Transparent Material by Crossed-Beam Irradiation System Using Femtosecond Laser	F. Takase
ThPO55	306	Comparative Analysis of Microactuators Fabricated by the Femtosecond and Nanosecond Laser Micromachining	Evgueni Bordatchev
ThPO56	307	Spectroscopic Modeling and Characterization of a Collisionally Confined Laser-ablated Plasma Plume	M. E. Sherrill
ThPO57	308	Laser Irradiation Pretreatment Effects on Catalyst Roughening/Alloying and CVD Nanotube Growth	C. M. Rouleau
ThPO58	310	<i>In situ</i> Laser-Irradiation Effects on Chemical Vapor Deposition Growth of Carbon Nanotubes	D. B. Geohegan
ThPO59	311	Laser Vaporization Deposition (LVD) Synthesis of Oxide Nanowires for Functional Applications	Z. Liu
ThPO60	313	Femtosecond Laser Modification of Refractive Index in Silicon	Amir H. Nejadmalayeri
ThPO61	315	Synthesis of Lead-Free Ferroelectric Thin Films by Pulsed Laser Deposition	Maria Dinescu
ThPO62	317	Geometrical Profile of Material Surface Ablated with High-Power, Short-Pulse Lasers in Ambient Gas Media	Norman Tolk
ThPO63	318	Photochemical Writing of Silica Optical Waveguides in Silicone Rubber by F2 Laser	Masayuki Okoshi
ThPO64	319	F2-Laser Photochemical Welding of Silica Microspheres to Silicone: Towards Flexible Micro-Optical Circuits	Masayuki Okoshi
ThPO65	320	Plasma Investigation During Femtosecond Pulsed Laser Deposition of Nano-Structured Metal-Doped Diamond-Like Carbon Films	F. Garrelie
ThPO66	321	Structure and Optical Properties of Size-Selected ZnTe Nanoparticles Produced by Pulsed Laser Ablation	Takaaki Orii
ThPO67	322	The Estimation of Content of sp^3 Hybridization Bonds by Raman Spectroscopy Method in Amorphous Carbon Films Deposited by Excimer KrF Laser	S. Burdyńska
ThPO68	323	Mode Shifting of Quantum Cascade Lasers through Pulsed Nd:YVO4 Processing of Chalcogenide Glass Claddings	Craig B. Arnold
ThPO69	324	Effect of Reactive Atmosphere on Pulsed Laser Deposition of Hydroxyapatite Thin Films	Waldemar Mróz
ThPO70	325	Structural and Optical Properties of Phenylalanine and Tyrosine Thin Films Elaborated by Pulsed Laser Deposition	C. Garapon
ThPO71	326	Pulse Duration and Pulse Shaping Effects on Laser Microstructuring of Si	V. Zorba
ThPO72	327	Simulation of Ablation Channels in Dielectrics Performed with Multiple Femtosecond Pulses	J. R. Vázquez de Aldana
ThPO73	330	Surface Diffraction Studies of PLD-Grown Perovskite Thin Films	Phil Willmott
ThPO74	331	Ion kinetic energy control in dual-pulsed laser ablation on graphite targets	C. Sánchez Aké
ThPO75	332	Explosive Femtosecond Laser Ablation: A Thermal Model	B. Chimier
ThPO76	333	Spectroscopic Study of Reaction Mechanism of Laser-Ablated Silicon Ions With Neon Atoms and Benzene Molecules	Morihisa Saeki
ThPO77	296	157 nm Interactions with Technologically Important Materials	Tom Dickinson
ThPO78	334	Diffraction shaping of excimer-laser beams for pulsed laser deposition	Timo Kajava