

Oral Session

Monday, October 1

Opening

8:45 Opening Address

I. Fundamentals of Laser Ablation

Chair: J. T. Dickinson

- 9:00 I-1 **Laser Photothermal Ablation Studied by Ultrafast Microscopy: Fundamental Mechanisms of Ultra Low Threshold Ablation**, Dana D. Dlott, *School of Chemical Sciences, University of Illinois at Urbana Champaign, USA* (Invited)
- 9:30 O-1 **Bond-Selective Desorption and Ionization of Water Clusters and Biomolecules from Water Ices using a Picosecond Tunable Infrared Laser**, M. Baltz-Knorr, K. R. Schriver and R. F. Haglund, Jr., *Vanderbilt University, USA*
- 9:50 O-2 **Dynamics of Laser-Shocked Condensed Matter Probed by Nanosecond Raman Spectroscopy**, K. G. Nakamura, K. Wakabayashi, A. Matsuda and K. Kondo, *Materials and Structures Laboratory, Tokyo Institute of Technology, Japan*
- 10:10 O-3 **Temporal and Spatial Analysis of Plasmas during Graphite Laser Ablation**, S. Acquaviva and M. L. De Giorgi, *INFN and Università di Lecce, Dipartimento di Fisica via Arnesano, Italy*
- 10:30 Coffee Break

II. Fundamentals of Laser Ablation

Chair: J. Schou

- 11:00 I-2 **Control of Laser Induced Reactions in Solids Using Femtosecond and Nanosecond Pulses**, Wayne P. Hess¹, Alan G. Joly¹, Kenneth M. Beck¹, Daniel P. Gerrity², Peter V. Sushko³ and Alexander L. Shluger³, ¹*Pacific Northwest National Laboratory, USA*, ²*Department of Chemistry, Reed College, USA*, ³*Department of Physics and Astronomy, University College London, UK* (Invited)
- 11:30 O-4 **Multiscale Computational Study of Laser Ablation of Organic Materials**, Leonid V. Zhigilei, Michael Zeifman, Barbara J. Garrison, *Department of Materials Science & Engineering, University of Virginia, USA*, *Department of Chemistry, Penn State University, USA*
- 11:50 O-5 **Fundamental Studies of Photodesorption of Cations from Ionic Inorganic Crystals at 157 nm**, L. Cramer, S. C. Langford, W. Hess and J. T. Dickinson, *Washington State University, USA*
- 12:10 O-6 **Phase Explosion under Ultrashort Pulsed Laser Ablation: Modeling with Analysis of Metastable State of Melt**, Nadezhda M. Bulgakova¹ and Igor M. Bourakov², ¹*Institute of Thermophysics SB RAS, Russia*, ²*Novosibirsk State University, Russia*

12:30 Lunch Time

13:30 Poster Session I

Coffee Break

III. Pulsed Laser Deposition of Films

Chair: J. S. Horwitz / H. Koinuma

- 16:00 I-3 **Development of Prominent PLD (Aurora method) Suitable for High-Quality and Low-Temperature Film Growth**, Takeshi Kobayashi and Hideki Akiyoshi, *Department of Physical Science, Osaka University, Japan* (Invited)
- 16:30 O-7 **Properties of Epitaxially Grown Single Phase $\text{RuSr}_2\text{GdCu}_2\text{O}_8$ Thin Films Prepared by Pulsed Laser Deposition**, H.-U. Habermeier, G. Cristiani and O. Lebedev, *Max-Planck-Institut für Festkörperforschung, Germany*
- 16:50 O-8 **Picosecond and Femtosecond Pulsed Laser Ablation and Deposition of Quasicrystals**, R. Teghil¹, L. D'Alessio¹, A. Santagata¹, M. Zaccagnino¹, D. Ferro², D. J. Sordelet³, *Dipartimento di Chimica, Università della Basilicata, Italy*, ²*CNR Centro per la Termodinamica Chimica alle Alte Temperature, Italy*, ³*Department of Materials Science & Engineering, Iowa State University, USA*
- 17:10 O-9 **Rapid Optimization of Y-Type Magnetoplumbite Thin Films Growth by Combinatorial Pulsed Laser Deposition Technique**, I. Ohkubo¹, Y. Matsumoto¹, K. Itaka¹, T. Hasegawa¹, K. Ueno², M. Ohtani³, M. Kawasaki³, H. Koinuma⁴, ¹*Ceramics Materials and Structures Laboratory, Tokyo Institute of Technology, Japan*, ²*Central Technology Research Laboratories, ASAHI KASEI CORPORATION, Japan*, ³*Department of Innovative and Engineered Materials, Japan*, ⁴*Frontier Collaborative Research Center and Ceramics Materials and Structures Laboratory Tokyo Institute of Technology, Japan and CREST-Japan Science and Technology*
- 17:30 I-4 **Materials by Design: Control of Film Stoichiometry by Decoupling Plasma and Surface Processes in Transition Metal Carbonitrides**, P. R. Willmott¹, H. Spillmann¹ and M. Morstein², ¹*Physical Chemistry Institute, University of Zurich, Switzerland*, ²*ETH Zürich, Laboratory for Surface Science and Technology, Dept. of Materials, Switzerland* (Invited)
- 18:00 O-10 **Influence of the Nitrogen Content on the Field Emission Properties of $\alpha\text{-CN}_x$ Films Prepared by Pulsed Laser Deposition**, E. Fogarassy¹, T. Szorenyi^{1,2}, F. Antoni¹, J. P. Stoquert¹, P. Legagneux³, G. Pirio³, D. Pribat³, P. Boher⁴, J. Perrière⁵, ¹*CNRS-PHASE, France*, ²*Research Group on Laser Physics, Hungary*, ³*THALES-LCR, Domaine de Corbeville, France*, ⁴*SOPRA S.A., France*, ⁵*GPS, Université Paris VII, France*
- 18:20 O-11 **Critical Issues in Enhancing Brightness in Thin Film Phosphors for Flat Panel Display Applications**, R. K. Singh, D. Kumar, K. Cho, M. Ollinger and Z. Chen, *Department of Materials Science and Engineering, University of Florida, USA*
- 18:40

Tuesday, October 2

IV. NanoScience / NanoTechnology using Laser-Solid Interactions

Chair: Key Note: K. Murakami / The Others: F. Traeger

- 9:00 I-5 **Nanotechnology of C Nanotubes and Laser Ablation Methods**, Sumio Iijima, *NEC, Meijo University, Japan* (Key-Note Lecture, Invited)
- 9:40 I-6 **Time-Resolved Diagnostics of Single-Wall Carbon Nanotube Synthesis by Laser Vaporization**, Alex A. Puretzky, *Dep. Material Science and Engineering, Univ. of Tennessee, USA* (Invited)
- 10:10 O-12 **Role of the Catalytic Particle Size in the Laser-Ablation Synthesis of Single-Wall Carbon Nanotubes**, A. Gorbunov¹, O. Jost¹, W. Pompe¹, A. Graff², ¹*Dresden University of Technology, Germany*, ²*Institute for Solid State and Materials Research (IFW), Germany*
- 10:30 Coffee Break

V. NanoScience / NanoTechnology using Laser-Solid Interactions

Chair: D. B. Geohegan

- 11:00 O-13 **Vertically Aligned Carbon Nanotube Growths by Pulsed Laser Deposition (PLD) and Chemical Vapor Deposition (CVD) Methods**, Jung-Inn Sohn and Seonghoon Lee, *Department of Materials Science and Engineering, Kwangju Institute Science and Technology (K-JIST), Korea*
- 11:20 I-7 **Gas Phase ZnO Nanoclusters and Structural, Optical and Lasing Properties of Corresponding Nanostructured Thin Films**, W. Marine, A. V. Bulgakov, D. Nelson, I. Ozerov and M. Sentis, *Groupement Interdisciplinaire Ablation Laser et Applications, UMR CNRS 6631 et UMR CNRS 6594, Faculté des Sciences de Luminy, France* (Invited)
- 11:50 O-14 **Metallic and Intermetallic Nanoparticles, Filaments and Tree-Like Aggregates Prepared by Laser Vaporization Controlled Condensation**, V. Abedelsayed, Y. B. Pithawalla, E. Alsharaeh and M. S. El-Shall, *Department of Chemistry Virginia Commonwealth University, Richmond, USA*
- 12:10 O-15 **Dynamics of Hydrogenation of Si Nanoparticles with Green Photoluminescence**, T. Mizuta, D. Takeuchi, Y. Kawaguchi, T. Makimura, K. Murakami, *Institute of Applied Physics, University of Tsukuba, Japan*
- 12:30 O-16 **The Role of Local Ablation due to Near Field Effects in Laser Cleaning and Surface Nanostructuring**, P. Leiderer¹, M. Mosbacher^{1,2}, H.-J. Münzer¹, M. Bertsch¹, O. Dubbers¹, J. Boneberg¹, B.-U. Runge¹, ¹*University of Konstanz, Center of Modern Optics, Germany*, ²*Johannes-Kepler-Universität Linz, Institute of Applied Physics, Austria*
- 12:50 Lunch Time
- 14:00 Poster II
- Coffee Break

VI. Laser Processing: Modification, Etching, Cleaning, Machining

Chair: T. Okada / E. Fogarassy

- 16:30 I-8 **Laser Creation of 3-Dimensional Micro- and Nanostructures: Processing, Properties and Applications**, M. Stuke, M. Koch, A. Moore, K. Mueller, M. Lapczyna, G. Padeletti¹, *Max-Planck-Institut f. biophys. Chemie, Germany*, ¹*CNR Monterotondo (I)* (Invited)
- 17:00 O-17 **Polycarbazoles Microcavities: towards Plastic Blue Lasers**, M. C. Castex¹, C. Olivero¹, A. Fischer¹, D. Ades² and A. Siove², ¹*Laboratoire de Physique des Lasers (CNRS)*, ²*Laboratoire de Recherches sur les Macromolécules (CNRS), Université Paris Nord, France*
- 17:20 O-18 **Laser Tuning Technique for Analogue Microelectronics: Process Modeling and Device Characterization**, M. Meunier, M. Cadotte and M. Ducharme, *École Polytechnique de Montréal, Canada*
- 17:40 I-9 **Multiwavelength Excitation Processing Using F₂ and KrF Excimer Lasers for Precision Microfabrication of Hard Materials**, Koji Sugioka¹, Toshimitsu Akane¹, Kotaro Obata², Koichi Toyoda² and Katsumi Midorikawa¹, ¹*RIKEN - The Institute of Physical and Chemical Research, Japan*, ²*Science University of Tokyo, Japan* (Invited)
- 18:10 O-19 **Radioactive Oxide Removal by XeCl Laser**, Ph. Delaporte¹, M. Gastaud¹, W. Marine², M. Sentis¹, O. Uteza¹, P. Thouvenot³, J. L. Alcaraz³, B. Fournel³ D. Blin⁴, ¹*Laboratoire Lasers, Plasmas et Procédés Photoniques LP3, FRE 2165 CNRS - Université de la Méditerranée*, ²*Groupe de Physique des Etats Condensés GPEC, UMR 6631 CNRS - Université de la Méditerranée, France*, ³*Commissariat à l'Energie Atomique Centre d'études de Cadarache, France*, ⁴*ONECTRA, France*
- 18:30 O-20 **Laser Crystallization during Pulsed Laser Deposited of Barium Titanate Thin Films at Low Temperatures**, Jens Gottmann, Bernd Vosseler, Ernst Wolfgang Kreutz, *Lehrstuhl für Lasertechnik RWTH Aachen, Germany*
- 18:50

Wednesday, October 3**VII. fs-Laser Ablation & Applications**

Chair: M. Stuke

- 9:00 I-10 **Holographic Encoding of Micro-Grain in Transparent Materials by a Single Pulse from Femtosecond Laser**, Hideo Hosono¹, Ken-ichi Kawamura² and Masahiro Hirano², ¹*Tokyo Institute of Technology, Japan*, ²*Hosono Transparent Electro Active Materials Project, ERATO, Japan Science and Technology Corporation (JST), Japan* (Invited)
- 9:30 O-21 **Ablation of Solids by Femtosecond Lasers: Ablation Mechanism and Ablation Thresholds for Metals and Dielectrics**, E. G. Gamaly¹, A. V. Rode¹, B. Luther-Davies¹, V. T. Tikhonchuk², ¹*Research School of Physical Sciences and Engineering, Australian National University, Australia*, ²*Institute of Fundamental Physics, University Bordeaux-1, France*
- 9:50 O-22 **Application of Femtosecond Laser Pulses for Microfabrication of Transparent Media**, Hiroaki Misawa, Vygantas Mizeikis, Saulius Juodkazis, Andrius Marcinkevičius, Hongbo Sun, Shigeki Matsuo, *The University of Tokushima, Japan*
- 10:10 O-23 **Fundamental and Analytical Aspects of Femtosecond Laser Microablation**, A. F. Semerok, *Commissariat à l'Energie Atomique, France*
- 10:30 *Coffee Break*

VIII. NanoScience / NanoTechnology & Nonthermal Effects

Chair: R. H. Haglund, Jr.

- 11:00 I-11 **Laser Manipulation of Metal Nanoparticles**, F. Stietz, *Univ. Kassel, Germany* (Invited)
- 11:30 O-24 **The Atomic Processes of Ultraviolet-Laser-Induced Etching of Chlorinated Silicon (111) Surface**, H. Amasuga, M. Nakamura, Y. Mera and K. Maeda, *Department of Applied Physics, Graduate School of Engineering, University of Tokyo, Japan*
- 11:50 O-25 **Transient Center Photodecomposition in Potassium Bromide**, Kenneth M. Beck¹, Alan G. Joly¹, Wayne P. Hess¹, Dan Gerrity², Alexander L. Shluger³ and Peter V. Sushko³, ¹*Pacific Northwest National Laboratory, William R. Wiley Environmental Molecular Sciences Laboratory, USA*, ²*Department of Chemistry, Reed College, Portland, USA*, ³*Condensed Matter and Materials Physics, Department of Physics and Astronomy, University College London, UK*
- 12:10
- 12:30 **Bus Starts !
Excursion**
- 19:00 **Bunquet** at Sansuitei (Tel: 55-8181)
- 21:00

Thursday, October 4**IX. Variety of Ultrashort Laser Ablation and Spectroscopy**

Chair: W. Kautek

- 9:00 I-12 **In-Depth Profiling of Multilayer Samples with Femtosecond Laser**, Vanja Margetic, Kay Niemax and Roland Hergenröder, *Institute of Spectrochemistry and Applied Spectroscopy, Germany* (Invited)
- 9:30 O-26 **Dephasing of Coherent THz Phonons in Bismuth Studied by Femtosecond Pump-Probe Technique**, M. Hase¹, K. Ishioka¹, M. Kitajima¹, S. Hishita¹ and K. Ushida², ¹*National Institute for Materials Science, Japan*, ²*RIKEN (The Institute of Physical and Chemical Research), Japan*
- 9:50 O-27 **Ultra-Short Infrared Laser Interactions: Measurements of Nonlinear and Nonthermal Effects and Applications**, David R. Ermer¹, Michelle Baltz-Knorr² and Richard F. Haglund², ¹*Mississippi State University, USA*, ²*Vanderbilt University, USA*
- 10:10 O-28 **Simultaneous Atomization and Ionization of Large Organic Molecules Using Femtosecond Laser Ablation**, Mizuki Kurata-Nishimura, Fuyuki Tokanai, Yukari Matsuo, Tohru Kobayashi, Jun Kawai, Hiroshi Kumagai, Katsumi Midorikawa, Isao Tanihata and Yoshihide Hayashizaki, *RIKEN, Japan*
- 10:30 *Coffee Break*

X. Variety of Laser Ablation

Chair: J. G. Lunney

- 11:00 I-13 **Atmospheric Pressure Matrix-Assisted Laser Desorption Ionization as a Plume Diagnostic Tool in Laser Evaporation Methods**, John H. Callahan¹, Marsha C. Galicia² and Akos Vertes², ¹*Naval Research Laboratory, Chemical Dynamics and Diagnostics Branch, USA*, ²*Department of Chemistry, George Washington University, USA* (Invited)
- 11:30 O-29 **Analytical Applications of Laser Induced Breakdown Spectroscopy in Art Conservation and Archaeology**, Demetrios Anglos, *Foundation for Research and Technology-Hellas (FORTH), Institute of Electronic Structure and Laser, Greece*
- 11:50 *Lunch Time*

XI. Laser Ablation of Polymer / Organic Materials

Chair: A. Yabe

- 13:30 I-14 **Polymers Designed for Laser Ablation-Influence of Photochemical Properties**, T. Lippert¹, J. T. Dickinson², M. Hauer¹, S. C. Langford², H. Masuhara³, O. Nuyken⁴, J. Robert⁴, T. Tada³, K. Tomita³ and A. Wokaun¹, ¹*Paul Scherrer Institut, Switzerland*, ²*Washington State University, USA*, ³*Osaka University, Japan*, ⁴*Technische Universität München, Germany* (Invited)
- 14:00 O-30 **Chemical and Structural Modifications in the UV Laser Ablation of Polymers. Implications for the Laser Cleaning of Molecular Substrates**, D. Anglos, A. Athanassiou, S. Georgiou, V. Tornari and J. Venturini, *Foundation for Research and Technology-Hellas (FORTH), Institute of Electronic Structure and Laser, Greece*

- 14:20 O-31 **Remarkable Enhancement on Elimination Reaction of Side Groups in Excimer Laser Ablation of Mixture Targets of Perylene Derivatives with Metal Powder**, Satoru Nishio, Kazuyuki Tamura, Yukari Tsujine, Tomoko Fukao, Masayoshi Nakano, Akiyoshi Matsuzaki and Hiroyasu Sato, *Laser Photochemistry Research Group, Department of Chemistry for Materials, Faculty of Engineering, Mi'e University, Japan*
- 14:40 I-15 **Laser-Induced Nanometer-Nanosecond Ablation, Expansion, and Contraction Dynamics of Some Polymer Films Studied by Time-Resolved Interferometry**, Hiroshi Masuhara, Tomokazu Masubuchi, Takashi Mito and Takuji Tada, *Department of Applied Physics, Osaka University, Japan* (Invited)
- 15:10 O-32 **Resonant IR-Pulsed Laser Deposition of Polymer Films Using a Free-Electron Laser**, Daniel M. Bubb¹, J. S. Horwitz¹, J. H. Callahan¹, R. A. McGill¹, E. J. Houser¹, D. B. Chrisey¹, M. R. Papantonakis², R. F. Haglund, Jr.², M. Galicia³, A. Vertes³ and Bo Toftmann⁴, ¹*Naval Research Laboratory, USA*, ²*Vanderbilt University, USA*, ³*George Washington University, USA*, ⁴*Risø National Laboratory, Denmark*
- 15:30 *Coffee Break*

XII. Pulsed Laser Deposition of Films

Chair: W. Marine / J. S. Horwitz

- 16:00 I-16 **Pulsed Laser Deposition of SrTiO₃ on InP for the Integration of Piezoelectric Pb_{0.775}La_{0.15}TiO₃**, E. Vasco¹, C. Polop¹, C. Coya², A. Kling³ and C. Zaldo¹, ¹*Instituto de Ciencia de Materiales de Madrid. Consejo Superior de Investigaciones Científicas, Spain*, ²*Escuela Superior de Ciencias Experimentales y Tecnología. Universidad Rey Juan Carlos, Spain*, ³*Instituto Tecnológico e Nuclear, Portugal* (Invited)
- 16:30 O-33 **Advanced Pulsed Laser Deposition for Growth Manipulation**, Dave H. A. Blank and Guus Rijnders, *MESA+ Research Institute, Applied Physics, University of Twente, Netherlands*
- 16:50 O-34 **Properties of Piezoelectric and Ferroelectric Heterostructures Prepared by Pulsed Laser Deposition**, I. Vrejoiu, R. Dinu, R. Savu, C. Grigoriu, F. Craciun¹, P. Verardi¹, M. Dinescu, *IFA, NILPRP, Lasers Dept., Romania*, ¹*Institute of Acoustics "O.M. Corbino", CNR, Italy*
- 17:10 I-17 **Oxygen Atmosphere Laser Ablation of Graphite for Synthesis of Diamond and Carbon Nanostructures**, M. Yoshimoto, K. Nakajima, M. Furusawa, J. Tashiro and A. Sasaki, *Ceramics Laboratory, Tokyo Institute of Technology, Japan* (Invited)
- 17:40 O-35 **Study of Expansion of Laser Ablation Plumes of Ga and GaN in Various N₂ Atmospheres Using Stigmatic Emission Spectroscopy**, A. P. McKiernan¹, E. T. Kennedy¹, J. G. Lunney² and J.-P. Mosnier¹, ¹*School of Physical Sciences and National Centre for Plasma Science and Technology, Ireland*, ²*Physics Department, Trinity College, Ireland*
- 18:00 O-36 **Advantages of PLD in Group III nitride growth**, H. Fujioka¹, J. Ohta¹, H. Takahashi¹, S. Ito¹, M. Oshima¹ and H. Koinuma², ¹*Department of Applied Chemistry, The University of Tokyo, Japan*, ²*Materials and Structures Laboratory, Tokyo Institute of Technology, Japan*
- 18:20 O-37 **Pulsed Laser Deposition of Cubic Boron Nitride Films at High Growth Rates**, Steffen Weißmantel, Günter Reißer, *Hochschule Mittweida, University of Applied Sciences, Germany*
- 18:40

Friday, October 5

XIII. Laser Plasma and Applications

Chair: C. Fotakis

- 9:00 I-18 **X-Ray Generation from fs Laser Heated Xe Clusters**, Kiminori Kondo, M. Mori and T. Shiraishi, *Center for Tsukuba Advanced Research Alliance (TARA), University of Tsukuba, Japan*
(Invited)
- 9:30 O-38 **Time-Resolved EUV Spectroscopy in the Early Stage of Laser Ablation of Carbon**, Pierre Loiseau¹, Tue N. Hansen² and James G. Lunney², ¹*Laboratoire de Physique et Technologie des Plasmas, CNRS/Ecole Polytechnique, France*, ²*Department of Physics, Trinity College, Dublin 2, Ireland*
- 9:50 O-39 **Large Area PLD of nm-Multilayers**, R. Dietsch¹, Th. Holz¹, R. Scholz², D. Weißbach¹, ¹*Fraunhofer Institute Material and Beam Technology, Germany*, ²*Max Planck Institute for Microstructure Physics, Germany*
- 10:10 Coffee Break

XIV. Laser Plasma and Applications

Chair: W. P. Hess

- 10:40 I-19 **The Role of Hot Ballistic Electrons for Ablation of Metals by Ultrashort Laser Radiation**, W. Husinsky, V. Schmidt, R. Siebenküttel, R. Schmitzer and G. Betz, *Institut für Allgemeine Physik, Vienna University of Technology, Austria*
(Invited)
- 11:10 O-40 **Ion Dynamics in Laser Ablation Plumes from Selected Metals at 355 nm**, B. Thestrup¹, B. Toftmann¹, J. Schou¹, B. Doggett² and J. G. Lunney², ¹*Department of Optics and Fluid Dynamics, Risø National Laboratory, Denmark*, ²*Physics Department, Trinity College, Dublin 2, Ireland*
- 11:30 O-41 **Dynamics of Plume Generation in a Laser Forward Transfer Process**, D. Young¹, R. C. Y. Auyeung¹, H. Denham¹, A. Piqué¹, D. B. Chrisey¹ and D. D. Dlott², ¹*Naval Research Laboratory, Washington DC, USA*, ²*Department of Chemistry, University of Illinois at Champaign-Urbana, USA*

Closing

- 11:50 Poster Award
Closing Remarks
- 12:10

Poster Session

Poster I (Monday, Oct. 1)

- PM-1 Study on UV and IR Laser Interaction with Metal Surfaces**, A. V. Fedenev, I. M. Goncharenko, N. N. Koval', V. M. Orlovskii, V. F. Tarasenko
- PM-2 The Onset of Optical Breakdown in KrF-Laser-Irradiated Silica Glass**, Y. Kawaguchi, A. Narazaki, T. Sato, H. Niino, A. Yabe, S. C. Langford, and J. T. Dickinson
- PM-3 Total Surface Super-Absorption of Laser Radiation during Collective Instability of Oscillating Electrons Produced and Accelerated on a Surface of Condensed Target by Short Laser Pulse**, Vladimir Vysotskii
- PM-4 Spectroscopic and Ion Probe Diagnostic of Laser Ablated Ti Target**, T. kerdja, s. Abdelli, s. Nait-Omar, S. Lafane, S. Malek and A. Bendib
- PM-5 Observation of Light Emission Region Produced by Pulsed Laser Irradiation to Solid-Liquid Interface**, Kotaro Saito, Kazuhiro Takatani, Tetsuo Sakka and Yukio H. Ogata
- PM-6 Phase Explosion and Its Time Lag in Nanosecond Laser Ablation**, Xianfan Xu
- PM-7 Photothermal and Photomechanical Effects During Picosecond Laser Ablation of Silicon**, Patrick Lorazo, Laurent J. Lewis and Michel Meunier
- PM-8 Laser Ablation of Solid-Nitrogen Film by UV ps-Laser Irradiation**, Hiroyuki Niino, Tadatake Sato, Aiko Narazaki, Yoshizo Kawaguchi and Akira Yabe
- PM-9 A Computational Model for Selected Emission and Absorption Transitions in an Expanding Laser Produced Lithium Plume**, M. W. Stapleton, J. T. Costello, E. T. Kennedy, P. Van Kampen, W. Whitty and J. -P. Mosnier
- PM-10** (withdrawn)
- PM-11 Modeling of Vapour Flow in Deep Penetration Laser Welding**, E. H. Amara and A. Bendib
- PM-12 Measurement of the Anisotropy of the Electron Distribution of a Laser-Produced Al Plasma Using Space-Resolved Plasma Polarization Spectroscopy**, Jaehoon Kim and Dong-Eon Kim
- PM-13 Characterization of Rear and Front-Side Laser Ablation Plasmas for Thin Film Deposition**, L. Escobar-Alarcón, E. Camps, E. Haro-Poniatowski, M. Villagran, C. Sánchez
- PM-14 Ignition of Thin Explosive Layer by Laser Ablated High Temperature Metal Plasma**, Kunihito Nagayama, Kazunari Inou and Motonao Nakahara
- PM-15 Observation of Continuous Emission Spectra from Laser-Ablation Carbon Plumes**, K. Sasaki, T. Wakasaki and K. Kadota
- PM-16 Translational Temperature of SiO⁺ Produced by Laser Ablation**, Takashi Mogi, Yoshimitsu Fukuyama, Tohru Kobayashi, Isao Tanihata, Kiyoji Uehara, Yukari Matsuo
- PM-17 Role of Gas Breakdown Plasma in Deep Channel Formation by Ultrashort Laser Pulses**, S. M. Klimentov, T. V. Kononenko, P. A. Pivovarov, S. V. Garnov, V. I. Konov, A. M. Prokhorov, D. Breitling and F. Dausinger
- PM-18 Investigation of the Mechanisms Involved in Plasma Formation and Decay at a Surface during Laser Induced Plasma Spectroscopy**, R. Barbini, F. Colao, R. Fantoni, V. Latic, A. Palucci, S. Pershin
- PM-19 Expansion Dynamics of the Laser Induced Plasma in a Background Gas: Comparison of Experimental Results with an Extended Analytical Model**, Jens Gottmann, Ernst Wolfgang Kreutz
- PM-20 Velocity and Metastable-States Population Distributions of Atoms in Laser Ablation Plume from Neodymium and Gadolinium Targets**, Hironori M. Ohba, Hideki Iimura, Takemasa Shibata and Hiroari Miyatake
- PM-21 Comparison of Neutral and Ionic Product Channels in MALDI**, Michael L. Alexander and Wayne P. Hess
- PM-22 LA-ICP-MS: Ablation Studies Using a 266 nm Nd:YAG and an 193 nm Excimer Laser Ablation System for Quantitative Elemental Analysis**, Detlef Günther, Ingo Horn, Marcel Guillong, Bodo Hattendorf

- PM-23 Picosecond Infrared Matrix-Assisted Laser Desorption-Ionization Mass Spectroscopy of Organic Molecules on Nitrate Crystallites**, M. R. Papantonakis, D. R. Ermer and R. F. Haglund, Jr.
- PM-24 Application of Laser-Induced Breakdown Spectroscopy to the Analysis of the Composition of Thin Films Produced by Pulsed-Laser Deposition**, C. Aragón, V. Madurga, J. A. Aguilera
- PM-25 Pulsed Laser Ablation TOF-MS Analysis of Planets and Small Bodies**, William B. Brinckerhoff
- PM-26 Debris from Tape-Target Irradiated with Pulsed YAG Laser**, Hirozumi Azuma, Yasuhiko Nishimura, Atushi Sakata and Akihiro Takeuchi
- PM-27 Thin Films Deposition in RF Plasmas by Reactive Pulsed Laser Ablation**, A. Giardini, V. Marotta, S. Orlando, G. P. Parisi
- PM-28 Synthesis and Characterization of Hastelloy Thin Films by Pulsed Laser Ablation**, S. Duhalde, M. F. Vignolo, F. Audebert, I. Avram, T. Pérez, L. Cultrera, A. Forleo, G. Marsano, A. Perrone and A. Zocco
- PM-29 Thermal Analysis for Cooling Process of Ge Droplets in Laser Droplet Epitaxy**, Shigeru Ohtsubo, Yasuto Yonezawa, Satoru Yamada, Akiharu Morimoto and Tatsuo Shimizu
- PM-30 Raman Scattering Measurements in ZrN Films Produced by RPLD**, R. Castell, C. Castell, Ch. Power and J. Gonzalez
- PM-31 Laser Deposition of Thin Film with Varying Substrate Temperature during Film Growth**, W. D. Song, M. H. Hong, Y. F. Lu, W. J. Wang, Y. F. Xu, S. I. Pang and T. C. Chong
- PM-32 Single-Phase Diamond Thin Films on Diamond(100) Prepared by Pulsed Laser Deposition using a Graphite Target**, Tsuyoshi Yoshitake, Takeshi Hara, Takashi Nishiyama and Kunihito Nagayama
- PM-33 Laser Ablation of Thin Carbon Layer Deposited on a Polymer Substrate by Nd:YAG Laser**, Tsuyoshi Noguchi, Koji Suizu, Kunihito Nagayama
- PM-34 Fabrication of Ce:YIG Thin Films with Different Compositions by Pulsed-Laser Deposition**, Yuko Tashiro, Yoshiaki Nakata, Tatsuo Okada, Mitsuo Maeda, Sadao Higuchi, Kiyotaka Ueda
- PM-35 Effect of Deposition Conditions on Optical and Electrical Properties of ZnO Films Prepared by PLD**, Ji Nan Zeng, Juay Kiang Low, Zhong Min Ren, Yong Feng Lu
- PM-36 Deposition of ZnO Film by Pulsed-Laser Deposition at Room Temperature**, Yoshiaki Nakata, Tatsuo Okada, Mitsuo Maeda
- PM-37 Pulsed Laser Deposition of Gold Thin Films**, E. Irissou, M. Chaker, M. Trudeau, D. Guay
- PM-38 Intermetallics of Nickel and Iron Based, Deposited using KrF Laser**, W. Mróz, A. Prokopiuk, M. Mularczyk-Oliwa, M. Jelinek, B. Major, W. Przetakiewicz, Z. Bojar, S. Józwiak, D. Zasada and K. Kasuya
- PM-39 Preparation of SiN_x Film by Pulsed Laser Ablation in Nitrogen Gas Ambient**, I. Umezu, K. Kohno, T. Yamaguchi, M. Inada and A. Sugimura
- PM-40 Preparation of Epitaxial AlN Thin Films on Silicon Wafers by Pulsed Laser Deposition**, J.-M. Liu, H. L. Chan, C. L. Choy and Z. G. Liu
- PM-41 Capture of Droplets using a Rotation Filter in Pulsed Laser Ablation of FeSi₂**, Tsuyoshi Yoshitake, Gousuke Shiraishi and Kunihito Nagayama
- PM-42 Growth of GaN on Nearly Lattice Matched MnO Substrates by Pulsed Laser Deposition**, S. Ito, J. Ohta, H. Takahashi, H. Fujioka and M. Oshima
- PM-43**
- PM-44 Pulsed Laser Deposition of Thin Films of Boron Carbide and their Nanoindentation Hardness**, M. Taniwaki, F. Kokai, M. Ishihara and Y. Koga
- PM-45 Synthesis of C₃N₄ by the Combination of Laser Ablation of Graphite and N₂ Molecular Beam**, I. Zergioti, A. Sfounis, M. Velegarakis, I. Alexandrou, G. A. J. Amaratunga
- PM-46 (withdrawn)**
- PM-47 TiO₂ Thin Films Prepared by PLD for Photocatalytic Applications**, Narumi Inoue, Hiromitsu Uasa and Masayuki Okoshi
- PM-48 Oxygen Trapping during Pulsed Laser Deposition of Oxide Films**, V. Craciun, J. Perriere, R. K. Singh

- PM-49 UV Assisted Processing of High K Dielectric Materials**, J. M. Howard, V. Craciun, N. D. Bassim and R. K. Singh
- PM-50 Preparation of Epitaxial Pb(Zr, Ti)O₃ Thin Films Using Coating Photolysis Process**, Yuki Miyamoto, Tetsuo Tsuchiya, Iwao Yamaguchi, Takaaki Manabe, Hiroyuki Niino, Akira Yabe, Toshiya Kumagai, Toshio Tsuchiya and Susumu Mizuta
- PM-51 Initial Growth Study of SrRuO₃ Studied by High-Pressure RHEED**, Guus Rijnders, Horst Rogalla and Dave H. A. Blank
- PM-52 Various Oxidation Environments in Preparation of PZT Films by Pulsed Laser Ablation**, Akiharu Morimoto, Satoru Yamada, Takehiko Kishi, Shigeru Ohtsubo and Tatsuo Shimizu
- PM-53 Combinatorial Fabrication and Cathodoluminescence Properties of Composition Spread MHfO₃ : Tm (M= Sr, Ba, Ca) Films and Super-Lattices**, N. Arai, T. W. Kim Y. Matsumoto and H. Koinuma
- PM-54 Combinatorial Pulsed Laser Deposition of Gd_xY_{1-x}Ca₄O(BO₃)₃ Thin Films and Their Nonlinear Optical Properties**, T-W. Kim, N. Arai, Y. Matsumoto, M. Yoshimura, H. Furuya, H. Nakao, Y. Mori, T. Sasaki and H. Koinuma
- PM-55 Laser Induced Forward Transfer Process of Metal Thin Films**, Hirokazu Yamada, Tomokazu Sano, Takayuki Nakayama, Isamu Miyamoto
- PM-56 Ablation of Crystalline Silicon upon Double Femtosecond Laser Beam Irradiation**, Taeyoul Choi, David J. Hwang and Costas P. Grigoropoulos
- PM-57 Femtosecond Multistep Laser Etching of Amorphous Organic Films**, Yoichiro Hosokawa, Masaki Yashiro, Tsuyoshi Asahi and Hiroshi Masuhara
- PM-58** (withdrawn)
- PM-59 Femtosecond Carrier and Phonon Dynamics in Defective Materials**, K. Ishioka, M. Hase, K. Ushida and M. Kitajima
- PM-60 Electrostatic Field Induced Mechanism of Ultrafast Melting in Metals and Semiconductors**, E. G. Gamaly, A. V. Rode, M. Samoc B. Luther-Davies, V. T. Tikhonchuk
- PM-61 Femtosecond Pulse Laser Ablation of Anodic Oxide Coatings on Aluminium Alloys with on-line Acoustic Observation**, J. Krüger, P. Meja, M. Autric, W. Kautek
- PM-62 Formation of Carbon Nano-Foam and Nanotubes by High-Repetition-Rate Laser Ablation**, A. V. Rode, E. G. Gamaly, R. G. Elliman, S. T. Hyde, B. Luther-Davies
- PM-63 Codeposition Process of Monodispersed Silicon Nanoparticles and Transparent Conductors**, N. Suzuki, Y. Yamada, T. Makino, T. Yoshida and T. Seto
- PM-64 Electroluminescence of Silicon Nanostructured Films Synthesized by Pulsed Laser Ablation in Inert Background Gas**, T. Makino, Y. Yamada, N. Suzuki, T. Yoshida and S. Onari
- PM-65 Observation of Large-Size Carbon Cluster Ions by Laser Ablation of Polymers in Vacuum**, K. Shibagaki, N. Takada, K. Sasaki and K. Kadota
- PM-66 Nonlinear Optical Properties Of Laser Ablated Silicon Nanostructures**, S. Vijayalakshmi, A. Lan and H. Grebel
- PM-67 Carbon Nanoparticle Deposition by Plasma Assisted PLD Method on Silicon Substrate**, Y. Suda, T. Ono, Y. Sakai and K. Suzuki
- PM-68 Modeling and Analysis of Nanoparticle Formation and Growth in Inert Gas Ambient Pulsed Laser Ablation of Silicon**, N. Aya, M. Hirasawa, T. Orii and T. Seto
- PM-69 Visible Photoluminescent Si-Based Nanostructured Layers Produced by Air Optical Breakdown Near a Silicon Surface**, A. V. Kabashin and M. Meunier
- PM-70 Fabrication of Er-Doped Si Nanocrystallites without Thermal Quenching of 1.5- μ m Photoluminescence**, Changqing Li, Keiichi Kondo, Tetsuya Makimura and Kouichi Murakami
- PM-71 Synthesis and Properties of Laser-Synthesized Nanofunctionalized Particulates for Pulmonary Based Controlled Drug Delivery Applications**, R. K. Singh, M. Ollinger, W. S Kim, V. Craciun, I. Coowanitwong, G. Hochhaus, R. Houriet, H. Hofmann, N. Koshizaki
- PM-72 Raman Spectroscopic Studies on Bismuth Nanoparticles Prepared by Laser**

- Ablation Technique**, Seinosuke Onari, Masaaki Miura and Kiyoto Matsuishi
- PM-73 Synthesis and Spectroscopic Properties of Silicon Nanowires**, Jifa Qi, Tomomasa Nakanoya, Yasuaki Masumoto
- PM-74 Preparation of Pt/TiO₂ Nanocomposite Films by 2-Beam Pulsed Laser Deposition**, Takeshi Sasaki, Kenneth M. Beck and Naoto Koshizaki
- PM-75 Preparation of Nanocrystalline Titania Films by Pulsed Laser Deposition at Room Temperature**, Naoto Koshizaki, Aiko Narazaki, Takeshi Sasaki
- PM-76 Reduced Degradation Effects by Application of Nanoscale Coatings on Sulfide Based Phosphors**, M. Ollinger, V. Craciun and R. K. Singh
- PM-77 Ultrafast Melting and Ablation of Silicon: Dependence on Pulse Duration**, Harald O. Jeschke, Martín E. Garcia, Matthias Lenzner, Jörn Bonse, Wolfgang Kautek and Jörg Krüger
- PM-78 XeCl Laser Treatment of Steel Surface**, A. Pereira, A. Cros, Ph. Delaporte, W. Marine, M. Sentis
- PM-79 Growth of Surface Structures in Ti through Nd:YAG Laser Irradiation**, E. György, A. Pérez del Pino, P. Serra, J. L. Morenza
- PM-80 Fabrication of Diffractive Phase Elements for the UV-Range by Laser Ablation Patterning of Dielectric Layers**, J. Ihlemann, D. Schäfer
- PM-81 Ablation Threshold Dependence on Pulse Duration for Pure Metals**, M. Hashida, A. F. Semerok, O. Govert, G. Petite, Y. Izawa and J. F.- Wagner
- PM-82 Thin Film Patterning by Direct Laser Fabrication of Resist Mask**, Xuekang Chen, Akiharu Morimoto, Minoru Kumeda and Tatsuo Shimizu
- PM-83 Laser Microprinting of InO_x Active Optical Structures**, I. Zergioti, D. Papazoglou, G. Koundourakis, N. A. Vainos and C. Fotakis
- PM-84 Laser Ablation and Chemistry of Silk Protein**, Yasuyuki Tsuboi and Akira Itaya
- PM-85 Growth of Hydroxyapatite Coatings Deposited by Laser-Assisted Laser Ablation Method**, Masahito Katto, Masahiro Nakamura, Toshiharu Tanaka, Takeyoshi Nakayama
- PM-86 Thin Film Deposition by Laser Ablation of Dimethylpolysiloxane**, Masaaki Kuramatsu, Masayuki Okoshi and Narumi Inoue
- PM-87 Wavelength-Dependence of the Photochemical Modifications in the UV Irradiation of Doped Polymers: Mechanistic Implications**, A. Athanassiou, E. Andreou, D. Fragouli, D. Anglos, S. Georgiou
- PM-88 Femtosecond Laser-Induced Material Transfer and Phase Transition of Organic Dye Solids**, Hiroshi Yoshikawa, Masaki Yashiro, Tuiyoshi Asahi and Hiroshi Masuhara
- PM-89 Femtosecond Laser Ablation Dynamics of Organic Microcrystals Studied by Time-Resolved Optical Micrography and Microspectroscopy**, Tsuyoshi Asahi, Tomokazu Tanaka, Kenji Horie, Yoichiro Hosokawa and Hiroshi Masuhara
- PM-90 Laser Ablation Mechanism of Urethane-Urea Copolymer Film: The Excitation Wavelength Dependence in Time-Resolved Interferometric Measurements**, T. Tada, T. Asahi, H. Masuhara, M. Tsuchimori and O. Watanabe
- PM-91 New Drilling Technique for Multilayered Materials by Single Shot Laser Irradiation**, Naoki Wakabayashi, Takahiro Ide and Yasushi Aoki
- PM-92 Experimental Apparatus to Pulsed Laser Deposition on Large Area**, U. Gambardella and A. Morone
- PM-93 Formation of Silver Nanoparticles by Laser Ablation of Silver Target in NaCl Solution**, Chang Hyun Bae, Sang Hwan Nam, Seung Min Park
- PM-94 Thermogradient Mechanism of p-n Junction Formation by Laser Radiation in Semiconductors**, A. Medvid' and L. Fedorenko
- PM-95 Deposition of Er: YAG (YAP) Layers by Subpicosecond and Nanosecond KrF Excimer Laser Ablation**, Miroslav Jelinek, Costas Fotakis, Argyro Klini, Christos Grivas, Jan Lancok, Vaclav Studnicka and Anna Mackova
- PM-96 Pulsed Laser Deposition of NiMnSb Thin Films at Moderate Temperature**, J. Giapintzakis, C. Grigorescu, A. Klini, A. Manousaki, V. Zorba, J. Androulakis, Z. Viskadourakis and C. Fatakis

PM-97 Physical and Structural Properties of Carbon Thin Films Deposited in 2 Inert Gases Ambient by Pulsed Laser Ablation Using Camphoric Carbon Target, M. Rusop, T. Soga, T. Jimbo and M. Umeno

PM-98 Photoluminescence Decay-Dynamics of Si Nanoparticles Prepared by Pulsed Laser Ablation, Kei Watanabe, Kouichi Sawada, Minoru Fujii, Kazuyuki Moriwaki, Shinji Hayashi

Poster II (Tuesday, Oct. 2)

PT-1 Phase Transformation and Ejection Dynamics in the UV Laser Irradiation of Model Molecular Solids, Antonis Koubenakis and Savas Georgiou

PT-2 Water as a Promoter of Laser and Electron Beam Interactions with Ionic Crystals—Fundamental Studies, J. T. Dickinson, M. Dawes, K. Nwe and S. C. Langford

PT-3 Application of Laser Ablation / ICP-MS to the Analysis of Advanced Ceramics, Tomokazu Tanaka and Masataka Hiraide

PT-4 Ultra Short Laser Pulse Ablation from Sodium Chloride — The Role of Laser Induced Color Centers, Matthias Henyk, Florenta Costache, Juergen Reif

PT-5 Influence of Time-Dimensional Characteristics of the Laser Radiation on the Heat State of the Irradiated Body, L.F. Golovko, V.V. Roman

PT-6 Pulsed Laser Ablation of Solids and Critical Phenomena, Nadezhda M. Bulgakova, Alexander V. Bulgakov, Igor M. Bourakov, and Natalia A. Bulgakova

PT-7 Nanosecond Laser Generation of Internal White Light Luminescence in Insulators—The Nature and Origin of Confined Plasmas in Transparent Solids, C. Bandis, L. Cramer and J. T. Dickinson

PT-8 Theory for Laser Induced Ablation and Ultrafast Melting of Carbon, M. E. Garcia, H. O. Jeschke and K. H. Bennemann

PT-9 Simulation on Femto-Second Laser Ablation, Hiroyuki Furukawa and Masaki Hashida

PT-10 Numerical and Experimental Study of Picosecond Laser Ablation of Metal, Xianfan Xu and David A. Willis

PT-11 Plume Expansion of a Laser-Induced Plasma Studied with the Particle in Cell (PIC) Method, O. Ellegaard, T. Nedelea, J. Schou and H. M. Urbassek

PT-12 Spectroscopic Studies of Two Perpendicularly Interacting Carbon Plasmas Generated by Laser Ablation, E. Camps, L. Escobar-Alarcón, E. Haro-Poniatowski, M. Fernandez-Guasti

PT-13 Emission Spectra of the Species Ablated from a Solid Target Submerged in Liquid, Tetsuo Sakka, Kotaro Saito, Yukio H. Ogata

PT-14 Plasma Deflection during Pulsed Laser Ablation of Solid Targets, A. Perrone, A. Zocco

PT-15 Electron Density in a Carbon Ablation Plume, Maria-Antoaneta Bratescu, Yosuke Sakai, Daisuke Yamaoka, Yoshiyuki Suda and Hirotake Sugawara

PT-16 Laser-Induced Optical Emission of Carbon Plume by Excimer and Nd:YAG Laser Irradiation, Tatsuya Shinozaki, Toshihiko Ooie, Tetsuo Yano, Jian Ping Zhao, Zhi Ying Chen and Masafumi Yoneda

PT-17 Plume Dynamics in ZnO under ArF Laser Radiation, Y. Kawaguchi, A. Narazaki, T. Sato, H. Niino and A. Yabe

PT-18 Temperature and Electron Density Distributions of Laser-Induced Plasmas Generated with an Iron Sample at Different Ambient Gas Pressures, J. A. Aguilera and C. Aragón

PT-19 Laser Analytical Spectroscopy of Atoms by Laser Ablation in Flame, A. T. Khalmanov and H. S. Khamraev

PT-20 X-Ray and Fast Ion Generation from Metal Targets by Femtosecond Laser Irradiation, Y. Okano, H. Kishimura, Y. Hironaka, K. G. Nakamura and K. Kondo

PT-21 Stable Strontium Isotope Ratio Measurements by Means of Laser Ablation Inductively Coupled Plasma Mass Spectrometry (LA-ICP-MS) in Prehistoric and Historic Archeological Findings, T. Prohaska, C. Latkoczy, M. Teschler Nicola and G. Stinger

- PT-22 Optical Method of Measuring Nanosecond Pressure Pulse in Water,** Mitsuru Terada, Sachiko Hatano, Yasuhito Mori and Kunihito Nagayama
- PT-23 Picosecond X-Ray Diffraction from Laser-Irradiated Crystals,** Y. Hironaka, A. Yazaki, K. G. Nakamura, K. Kondo
- PT-24 A keV-Region Spectroscopic Study of Laser-Induced Plasma X-Ray from Aqueous Solutions of Alkali Metal Salts,** Toshifumi Miura, Koji Hatanaka, Hideho Odaka and Hiroshi Fukumura
- PT-25 Improvement of Depth Profile Analysis by Laser Induced Plasma Spectroscopy,** V. Detalle, M. Sabsabi, R. Héon and L. St-Onge
- PT-26 Mechanisms in the Growth of ZrC_xN_{1-x} Thin Films by Pulsed Reactive Crossed-Beam Laser Ablation,** H. Spillmann, C. Clerc and P. R. Willmott
- PT-27 Pulsed Laser Deposition of Semiconductor-ITO Composite Films on Electric-Field-Applied Substrates,** Aiko Narazaki, Tadatake Sato, Yoshizo Kawaguchi, Hiroyuki Niino, Akira Yabe, Takeshi Sasaki and Naoto Koshizaki
- PT-28 Laser Deposited Colossal Magnetoresistive Manganite Thin Films— Fabrication and Characterization of Magnetotransport,** Srinivas V. Pietambaram, D. Kumar and Rajiv K. Singh
- PT-29 Artificial Layered Cuprates Made by Pulsed Laser Interval Deposition,** Guus Rijnders, Victor Leca, Gertjan Koster, Horst Rogalla and Dave H. A. Blank
- PT-30 Combinatorial Fabrication and Multi-Channel Characterization of Thermoelectric Thin Films,** H. Minami, K. Itaka, H. Kawaji, H. Koinuma
- PT-31 The Great Improvement of Surface Smoothness of CaF_2 in Pulsed Laser Deposition Even under the Two-Photon Absorption Process,** Tetsuro Maki, Kei Okamoto, Masanori Sugiura, Takeshi Hosomi and Takeshi Kobayashi
- PT-32 Laser Modelling of Transparent Diamond,** Yves Kerremans
- PT-33 TEM and Raman Investigation of RF-Plasma Assisted Pulsed Laser Deposition of Carbon Films,** E. Cappelli, S. Orlando, G. Mattei, G. Merli and P. Ascarelli
- PT-34 Pulsed Laser Deposition of Materials for Optoelectronic Applications,** A. P. Caricato, M. Fernández, G. Leggieri, A. Luches, M. Martino
- PT-35 Fabrication of Bi-Doped YIG Optical Thin Film for Electric Current Sensor by Pulsed Laser Deposition,** Hiromitsu Hayashi, Shouhachi Iwasa, Nilesh J. Vasa, Tsuyoshi Yoshitake, Kiyotaka Ueda, Shigeru Yokoyama, Sadao Higuchi, Hirohito Takeshita, Kenichi Terazono
- PT-36 Pure and Sn-Doped ZnO Films Produced by Pulsed Laser Deposition,** J. Schou, E. Holmelund and S. Tougaard
- PT-37 PLD Growth of ZnO Film Free From Deep Level Emission Using $(La, Sr)TiO_3$ Substrate,** Masanori Sugiura, Yuu Nakashima, Takuya Nakasaka and Takeshi Kobayashi
- PT-38 Formation of Unusual Intermetallic Phases by Vacuum PLD,** A. Gorbunov, A. Levin, A. Mensch, D. C. Meyer, A. Tselev, P. Paufler, W. Pompe, E. Wieser
- PT-39 Optical Properties of As-S Chalcogenide Films Deposited by Ultra-Fast Laser Ablation,** A. V. Rode, A. Zakery, M. Samoc, E. G. Gamaly and B. Luther-Davies
- PT-40 Influence of the Growth Conditions of AlN Films by Laser Ablation,** A Basillais, C Boulmer-Leborgne and J Perriere
- PT-41 Fabrication of Conductive AlN Thin Films by Pulsed Laser Deposition,** H. Tanaka, Y. Kai, M. Okamoto, Y. K. Yap, M. Yoshimura, Y. Mori and T. Sasaki
- PT-42 Growth of Epitaxial AlN Films on $(Mn, Zn)Fe_2O_4$ Substrates by Pulsed Laser Deposition,** J. Ohta, H. Takahashi, H. Fujioka and M. Oshima
- PT-43 Brilliant Photoluminescence from GaN Film grown by PLD under Particle-Energy-Manipulation,** Kouhei Mizuno, Jun Suzuki, Tetsuro Maki and Takeshi Kobayashi
- PT-44 Structure and Mechanical Properties of Cubic Boron Nitride Films Prepared by Pulsed Laser Deposition at High Growth Rates,** Günter Reiß, Steffen Weißmantel, Steffen Schulze
- PT-45 Deposition of BN Thin Films onto Si Substrate by PLD with Nano-Second and Femto-Second Pulses in Nitrogen Gas Background,** C. R. Luculescu, H. Miyake and S. Sato

- PT-46 Pulsed Laser Deposition of Electrochemical Active Perovskite Films**, M. J. Montenegro, T. Lippert, S. Müller, A. Weidenkaff, P. Willmott, A. Wokaun
- PT-47 Growth Dynamics of La-Modified PbTiO₃ Films by Pulse Laser Deposition**, E. Vasco, C. Polop and C. Ocal
- PT-48 Structural Properties of Indium Oxide Thin Films Prepared by Pulsed Laser Deposition**, Yuka Yamada, Nobuyasu Suzuki, Toshiharu Makino and Takehito Yoshida
- PT-49 Control of Interfacial Oxide Formation During Pulsed Laser Deposition of High K Dielectrics on Silicon**, N. Bassim, V. Craciun, J. Howard, R. K. Singh
- PT-50 Characterization of Tin-Doped Indium Oxide Films Prepared by Coating Photolysis Process**, Tetsuo Tsuchiya, Hiroyuki Niino, Akira Yabe, Iwao Yamaguchi, Takaaki Manabe, Toshiya Kumagai and Susumu Mizuta
- PT-51 Influence of Microstructure on Electrochemical Kinetics of Laser Deposited LiMn₂O₄ Thin Film Electrodes In Li Ion Batteries**, D. Singh, W. S Kim, V. Craciun, H. Hofmann and R. K. Singh
- PT-52 Structural and Electrical Properties of Lanthanum Oxide Thin Films Deposited by Laser Ablation**, M. F. Vignolo, S. Duhalde, M. Bormioli, G. Quintana, M. Cervera and J. Tocho
- PT-53 PLD Growth of La_{0.7}Sr_{0.3}MnO₃ Tilted Nanocolumn Boundaries on Constricted Step-Edged GaAs Substrates and MR Properties**, Issei Satoh, Masatsugu Oniduka and Takeshi Kobayashi
- PT-54 Combinatorial Optimization of Atomically Controlled Growth for Oxide Films by Laser Molecular Beam Epitaxy**, R. Takahashi, Y. Matsumoto, M. Lippmaa, M. Kawasaki, H. Koinuma
- PT-55 Temperature Dependence of Magneto Transport Properties in Pulsed Laser Deposited La_{0.5}Ca_{0.5}MnO₃ Thin Films**, D. Rubi, S. Duhalde, M. C. Terzzoli, G. Leyva, G. Polla, P. Levy, F. Parisi and D. Vega
- PT-56 Acoustic Detection of Anodic Oxide Layer Removal from Aluminium with Nanosecond Laser Pulses**, A. Cortona, G. Daminelli, J. Krüger, P. Meja, M. Autric, W. Kautek
- PT-57 Dynamics of fs-Laser Excited Surfaces near the Ablation Threshold**, Vasily V. Temnov, K. Sokolowski-Tinten, D. von der Linde
- PT-58 Femtosecond Lasers as Novel Tool in Dental Surgery**, J. Serbin, T. Bauer, C. Fallnich, A. Kasenbacher and W. H. Arnold
- PT-59 Heat Effects of Metals Ablated with Femtosecond Laser Pulses**, Yoichi Hirayama and Minoru Obara
- PT-60 Safety for Applications of Femtosecond-Laser-Technology (“SAFEST”) — A New Joint Project**, W. Kautek, M. Goede, A. Fiedler, E. Heberer, A. Stingl, C. Spielmann, M. Brose, G. Grabner
- PT-61 Engineering of a Magnetic Anisotropy using Nano-Particles Embedded in Nano-Multilayer Structures by PLD**, In-Joon Jeon, Dong-Wook Kang, Dong-Eon Kim, Dong-Hyun Kim, Sug-Bong Choe and Sung-Chul Shin
- PT-62 Electrical Property and Size Distribution of Gold Nanoparticles in a Film Produced by Gas Deposition Using Laser Ablation Method**, Yuji Kawakami, Takafumi Seto, Toshinobu Yoshida and Eiichi Ozawa
- PT-63 Growth Dynamics of Single-Wall Carbon Nanotubes and Nanohorn Aggregates by CO₂ Laser Vaporization at Room Temperature**, F. Kokai, K. Takahashi, D. Kasuya, M. Yudasaka and S. Iijima
- PT-64 Nanocapsules and Nanoballoons of Boron and Boron Nitride Prepared by the Synchronized Laser-Plasma Vaporization Deposition**, Shojiro Komatsu, Yoshiki Shimizu, Yusuke Moriyoshi, Katsuyuki Okada, Mamoru Mitomo
- PT-65 Cluster Ion Control by Simultaneous Irradiations Femtosecond Laser and Nanosecond Laser Pulse**, H. Kamada, Y. Hiratani and K. Toyoda
- PT-66 Effects of Surface Passivation of Silicon Nanocrystallites Prepared by Pulsed Laser Ablation**, K. Yoshida, M. Inada, K. Jyuhji, I. Umezu and A. Sugimura
- PT-67 Synthesis of Size-Selected TiO_x Nanoparticles**, M. Hirasawa, T. Seto, S. Kano, N. Aya and H. Shimura
- PT-68 Surface Manipulation on the Atomic Scale Using Laser Light**, D. Martin, T. Jacob, F. Stietz, B. Fricke, F. Träger

- PT-69 Effects of Hydrogen on Si Nanoparticles Formed by Pulsed Laser Ablation**, M. Inada, H. Nakagawa, I. Umezu and A. Sugimura
- PT-70 Functional Impurity Doping and Surface Modification of Si Nanocrystals**, T. Makimura, Y. Yamamoto, S. Mitani, T. Mizuta, C. Q. Li, D. Takeuchi and K. Murakami
- PT-71 Desorption Dynamics of Previously Deposited Si Nanoparticles —Droplet-Free Deposition of Si Nanoparticle Films—**, D. Takeuchi, T. Mizuta, T. Makimura, S. Yoshida, M. Fujita, K. Hata, H. Shigekawa and K. Murakami
- PT-72 Selective Adsorption and Patterning of Si Nanoparticles Fabricated by Laser Ablation on Functionalized Self-Assembled Monolayer**, M. Fujita, S. Yoshida, K. Hata, T. Makimura, K. Murakami and H. Shigekawa
- PT-73 Fabrication of Nanoparticles of Anatase TiO₂ by Oxygen-Supplied Pulsed Laser Deposition**, N. Okubo, T. Nakazawa, Y. Katano and I. Yoshizawa
- PT-74 Photoelectrochemical Behavior of TiO₂-Based Nanocomposite Thin Films Prepared by Pulsed Laser Deposition**, Jong-Won Yoon, Takeshi Sasaki and Naoto Koshizaki
- PT-75 Laser Ablation of Iron Oxide in Various Ambient Gases**, Leszek Zbroniec, Takeshi Sasaki and Naoto Koshizaki
- PT-76 Oxidation of Titanium through Nd:YAG Laser Irradiation**, A. Pérez del Pino, P. Serra and J. L. Morenza
- PT-77 Ripples Revisited**, Juergen Reif, Florenta Costache, Matthias Henyk
- PT-78 Influence of Laser Parameters on the Nitriding of Low Carbon Steel**, S. Duhalde, C. Copola, F. Audebert, I. Avram, T. Pérez, Ph. Delaporte and M. Sentis
- PT-79 Micromachining Parameters and Mechanisms of Typical Solid Materials by Diode-Pumped YAG Laser**, Xiaoyan Zeng, H. Weber and B. Ozygus
- PT-80 Particle on the Surface: Feedback Effects in Dry Laser Cleaning**, B. S. Luk'yanchuk, Y. W. Zheng, Y. F. Lu
- PT-81 Initial Stage of Etching in Fused Silica by Laser Ablation of Pyrene Solution with Nanosecond XeCl Excimer Laser**, Y. Yasui, Y. Kawaguchi, H. Niino and A. Yabe
- PT-82 Dynamics of Nanosecond Dry Laser Cleaning**, N. Arnold, G. Schrems, T. Mühlberger and D. Bäuerle
- PT-83 Ablation of Biological Bone Tissue by Femtosecond Radiation: Emission of Ionic and Neutral Species**, W. Husinsky, A. Daskalova, R. Schmitzer and G. Betz
- PT-84** (withdrawn)
- PT-85 Time-Resolved Study of Water Contribution to Excimer Laser Ablation of Collagen**, Katsunori Tsunoda, Masaru Sugiura, Hirofumi Yajima, Tadahiro Ishii, Hiroshi Itoh and Yutaka Nagai
- PT-86 Incubation and Ablation Behaviour of Polydimethylsiloxane for 266 nm Irradiation**, V. -M. Graubner, M. Hauer, R. Jordan, T. Lippert, O. Nuyken, B. Schnyder, A. Wokaun
- PT-87 Influence of the Irradiation Wavelength on the Ablation Process of Designed Polymers**, M. Hauer, T. Dickinson, S. Langford, T. Lippert, A. Wokaun
- PT-88 Laser Induced Morphological Change of Polystyrene Film**, Takashi Mito and Hiroshi Masuhara
- PT-89 Laser-Induced Decomposition and Ablation Dynamics of Triazene and Its Cross-Linking Polymer Films Studied by Nanosecond Interferometry**, Kazufumi Tomita, Takuji Tada, Hiroshi Masuhara and Thomas Lippert
- PT-90 Investigation of KrF Excimer Laser Ablation of Polymers Using a Microphone**, Jörg Krüger, Hiroyuki Niino and Akira Yabe
- PT-91 Is the VUV Laser Ablation of Polymers a Pure Photochemical Process ?**, M. C. Castex and N. Bityurin
- PT-92 Heterogeneous Laser Ablation of Polystyrene Film was Reduced by Coating Organic Photovoltaic Material**, Keiji Nagai, Hidetsugu Yoshida, Takayoshi Norimatsu, Noriaki Miyanaga, Yasukazu Izawa and Tatsuhiko Yamanaka
- PT-93 Steam Assisted Laser Ablation and Its Signal Diagnostics**, M. H. Hong, M. L. Koh, S. Zhua and Y. F. Lu
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