

# 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- PM-10** (withdrawn)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<sup>+</sup> 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<sub>x</sub> 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 FeSi<sub>2</sub>**, 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 C<sub>3</sub>N<sub>4</sub> by the Combination of Laser Ablation of Graphite and N<sub>2</sub> Molecular Beam**, I. Zergioti, A. Sfounis, M. Velegarakis, I. Alexandrou, G. A. J. Amaratunga
- PM-46 (withdrawn)**
- PM-47 TiO<sub>2</sub> 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)O<sub>3</sub> 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 SrRuO<sub>3</sub> 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 MHfO<sub>3</sub> : 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<sub>x</sub>Y<sub>1-x</sub>Ca<sub>4</sub>O(BO<sub>3</sub>)<sub>3</sub> 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- $\mu$ 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/TiO<sub>2</sub> 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<sub>x</sub> 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, Tuyen 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. Pauffer, 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 Reißer, 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 PbTiO<sub>3</sub> 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 LiMn<sub>2</sub>O<sub>4</sub> 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<sub>0.7</sub>Sr<sub>0.3</sub>MnO<sub>3</sub> 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<sub>0.5</sub>Ca<sub>0.5</sub>MnO<sub>3</sub> Thin Films**, D. Rubi, S. Duhalde, M. C. Terzzoli, G. Leyva, G. Polla, P. Levy, F. Parisi and D. Vega
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