

Poster Presentation

17 May 2001 (1:30pm-2:30pm)

1) Development of laser turning using femtosecond laser ablation

Kawahara Kousuke, Kurogi Yasunobu, Matsuo Naoyuki, Yokotani Atsushi, Kurosawa Kou, *Miyazaki University*;
Sawada Hiroshi, *NEC Machinery Corporation (Japan)*
[A063]

2) Precision micro-structuring of organic materials using femtosecond laser pulses

Liming He, Kok Ann Ngoi, Yuanzi Deng, *Nanyang Technological University (Singapore)*
[A066]

3) Photochemical reactions in Ge:SiO₂ glass under ps-THG Nd:YAG laser irradiation

Takahashi Masahide, Ichii Kentaro, Uchino Takashi, Yoko Toshinobu, *ICR, Kyoto University (Japan)*
[A075]

4) Intensity distribution measurement of ultra-short pulses using femtosecond optical polarigraphy

Nagamura Aritsune, *Science University of Tokyo (Japan)*
[A077]

5) Ablation deposition using phase-shifted ultra-short laser pulse

Masanori Miyazawa, *Science University of Tokyo (Japan)*
[A078]

6) Hole formation process in laser deep drilling with short and ultrashort pulses

Kononenko T., Klimentov S., Garnov S., Konov V., *General Physics Institute Russian Academy of Science (Russia)*;
Breitling D., Fohl C., Ruf A., Radtke J., Dausinger F., *(IFSW) University of Stuttgart (Germany)*
[A091]

7) The emission mechanism of charged particles during femtosecond pulsed laser ablation

Sano Tomokazu, Murai Makoto, Miyamoto Isamu, *Osaka University (Japan)*
[A119]

8) Fabrication of microlenses and microlens arrays using local melting of glass plate by CO₂ laser

Wakaki Moriaki, Hideo Fukumoto, *Tokai University*, Komachi Yuichi, Kanai Genichi, *Machida Endoscope Company Ltd*;
Kawabata Shuichi, *Tokyo Institute of Polytechnics (Japan)*
[A053]

9) Hole drilling of glass-foam substrates with laser

Yoshida Y., *Toyo University*, Yajima H., Hashidate Y., Ogura H., *Matsushita Electric Industrial Co. Ltd*; Ueda S.,
Shin-Etsu Chemical Co. Ltd. (Japan)
[A010]

10) Characterization of modified surface of indium tin oxide film during process of laser patterning

Zeng JiNan, Koh Hwee Lin, Ren Zhong Min, Song Wen Dong, Lu Yong Feng, *National University of Singapore, Data Storage Institute (Singapore)*
[A037]

11) The comparison of ITO ablation characteristics using KrF excimer and Nd:YAG laser

Lee Kyoung Cheol, *Inha University (Korea)*
[A141]

12) Laser ablation of Si in water

Zhu Sha, Hong M.H., Koh M.L., Lu Y.F., *Data Storage Institute, National University of Singapore (Singapore)*
[A018]

13) Direct patterning of magnetic nanostructures by means of interfering beams of a XeCl laser

Verevkin Yu., Petrykov V. Polushkin N., Salashchenko N., *Russian Academy of Science (Russia)*
[A023]

14) Laser-micromachining for Ag ion exchanged glasses

Koyama Tadashi, Tsunetomo Keiji, *Nippon Sheet Glass Co., Ltd*, Kamada Kenji, *Osaka National Research Institute*; Kenichi Nakama, *Optical Interconnection NSG Laboratory, Real World Computing Partnership Tsukuba Research Center, Technical Rese (Japan)*

[A039]

15) Stereolithography in photopolymer resin by 3-D scanning with simultaneous positioning control in tri-axial directions

Kamitani, Takayuki, *Osaka Sangyo University (Japan)*

[A049]

16) Investigation of carbon nano-particles converted from a polymer by UV pulsed laser irradiation

Huang S.M., Lu Y.F., Hong M.H., Pang S.I., Wang J.P., *Data Storage Institute, Sun Z., Nanyang Technological University (Singapore)*

[A006]

17) Processes in semiconductor materials after laser cutting

Novosselov A.R., Klimenko A.G., *Institute of Semiconductor Physics, pr. Akad. (Russia)*

[A007]

18) Dynamics studies on laser-induced forward transfer of WO₃ thin films

Qiu H, Lu Y.F., Ye K.D., An C.W., Wang W.J., *Data Storage Institute, National University of Singapore (Singapore)*

[A009]

19) Selective photon-breaking of C-S bonds in polythiophene to form quasi-one-dimensional carbon chains in cubic nanocrystals

Ren Z.M., Lu Y.F., Choy H.W., Chong T.C., *Data Storage Institute, National University of Singapore*, Ng S.C., Miao P., *National University of Singapore (Singapore)*

[A011]

20) Temperature effect for exciton dynamics in ZnCdSe/ZnSe QWs

Zeng JiNan, Lu Yong Feng, *Dept. of ECE, Data Storage Institute, National University of Singapore (Singapore)*; Oka Yasuo, *RISM Tohoku University (Japan)*

[A038]

21) Diagnostics and real-time monitoring of pulsed laser ablation

Hong MingHui, Lu Y.F., *DSI, National University of Singapore (Singapore)*

[A042]

22) Laser reflow PBGA

Liu DaMing, Lu Y.F., Yuan Y., Chen T., Hong M.H., *DSI, and National University of Singapore (Singapore)*

[A015]

23) Orientation dependence of kinetics of laser induced liquid-solid phase transitions in A₃B₅ single crystals

Gatskevich Elena, Ivlev Gennadii, *Institute of Electronics, NASB (Belarus)*

[A050]

24) UV laser ablation and etching of polymer-like materials

Bityurin Nikita, *Institute of Applied Physics Russian Academy of Sciences, (Russia)*

[A054]

25) All-optical full logic unit with femtosecond switching

Schmid Reiner P. Reif Juergen, *Brandenburgische Technische Universitaet Cottbus (Germany)*

[A056]

26) Excimer laser ablation of mathematical functions profiles on a-C:H (amorphous hydrogenated carbon) polymers surfaces

Bednarczyk S., Legaie O., Baclet Ph., *Commissariat a Energie Atomique, Centre de Valduc (France)*

[A083]

27) Molecular dynamics simulation on lattice defect generation due to laser irradiation

Fukumoto Ichiro, *JAERI (Japan Atomic Energy Research Institute) (Japan)*

[A112]

28) Laser singulation of IC packages

An ChengWu, Ye K.D, Yuan Y, Hong M.H, Lu Y.F, *Data Storage Institute, National University of Singapore (Singapore)*

[A031]

29) Laser marking on IC package by micro-encapsulated tapes

Ye Kaidong, An ChengWu, Yuan Yuan, Lu Yong Feng, *Data Storage Institute (Singapore)*

[A008]

Poster Presentation

18 May 2001 (1:20pm-2:20pm)

- 1) **Advancements in very short wavelength emission in solid state lasers**
Muddassir M., Gualini S., *Pakistan Institute of Lasers and Optics (Pakistan)*
[A044]
- 2) **In-process Monitoring Technology for VIA Hole Laser Processing for Printed Wiring Boards**
Kubo Masao, Uchida Yuichi, Ken'ichiro Tanaka, *Matsushita Electric Works, Ltd.*; Miyamoto Isamu, Sano Tomokazu, Nakayama Takayuki, *Osaka University (Japan)*
[A144]
- 3) **Development of a high-performance UV- DPSS laser drilling system for PWB**
Kawazoe Kenji, Yokohagi Daisuke, Nagatoshi Hideaki, Ukita Katsuichi, Karasaki Hidehiko, *Matsushita Industrial Equipment Co., Ltd. (Japan)*
[A059]
- 4) **High-power, high-brightness diode-pumped solid-state laser for precise laser processings**
Fujikawa Shuichi, Furuta Keisuke, Seguchi Masaaki, Kojima Tetsuo, Takenaka Yushi, Yasui Koji, *Mitsubishi Electric Corporation (Japan)*
[A093]
- 5) **Uniformity initialization optical system for phase-change optical disk**
Takita Masaaki, *Takita Research & Development Co., Ltd.*; Okino Yoshihiro, Nakahara Sumio, *High-Technology Research Center of Kansai University (Japan)*
[A099]
- 6) **Temperature dependence of SHG conversion efficiency of nonlinear optical crystal**
Ohmura Etsuji, *Osaka University (Japan)*
[A113]
- 7) **The optical and surface properties of ZnO thin films by PLD**
Lu Y.F, Ni H.Q, Ren Z.M., *Data Storage Institute, National University of Singapore (Singapore)* [A017]
- 8) **Preparation of highly oriented PMN thin films via controlled epitaxial MgO buffer layer on amorphous SiO₂/Si substrate by pulsed laser deposition**
Su Ying, Lu Li, Lai Man-On, *National University of Singapore*; Song Wen-Dong, Lu Yong-Feng, *Data Storage Institute (Singapore)*
[A060]
- 9) **The fabrication of TiNi thin films by pulsed laser deposition**
Chen XiaoYu, Lu Y. F., Ren Z. M., Zhu S. *Data Storage Institute, National University of Singapore (Singapore)*
[A022]
- 10) **Composition and structure of B-C-N films prepared by ion beam-assisted pulsed laser deposition**
Ling Hao, Ying Zhi Feng, Wu Jia Da, Sun Jian, Shi Wei, Du Yuan Cheng, Li Fu Ming, *Fudan University (China)*
[A024]
- 11) **Gallium nitride films synthesized by reactive pulsed laser deposition from GaAs target**
Sun Jian, Wu Jia Da, Shi Wei, Ling Hao, Ying Zhi Feng, Du Yuan Cheng, Li Fu Ming, *Fudan University (China)*
[A025]
- 12) **Electron cyclotron resonance plasma-assisted pulsed laser deposition of carbon nitride thin films**
Wu Jia Da, Shi Wei, Sun Jian, Ling Hao, Ying Zhi Feng, Du Yuan Cheng, Li Fu Ming, *Fudan University (China)*
[A026]

- 13) Laser deposition and characterization of Er: YAG and Er: YAP thin films**
Miroslav Jelinek, *Institute of Physics Czech Republic (Czech)*
[A114]
- 14) Laser deposition and characterization of waveguiding Nd : KGW films**
Miroslav Jelinek, *Institute of Physics Czech Republic (Czech)*
[A115]
- 15) Influence of laser fluence and laser repetition rate on the syntheses of Aluminium Nitride thin films by nitrogen-ion-assisted pulsed laser deposition**
Goh Yeow Whatt, Lu Yong Feng, Ren Z.M, *Data Storage Institute, National University of Singapore (Singapore)*
[A027]
- 16) Laser microprocessing hard disk surface**
Liu DaMing, Liu D.M., Lu Y.F., Wee T.S., Wang W. J., An C.W., Yuan Y., Ye K.D., Hong M.H., *Data Storage Institute, National University of Singapore (Singapore)*
[A014]
- 17) Surface micro topography of laser-textured cold-rolled steel sheet**
JianFeng Jian, *Postdoctoral Station of ShangHai Baosteel Group Co. & ShangHai JiaoTong University*; Yonghui He, Yonggen Yan, *Baosteel Research Institute*; Guangyu Cao , Wansheng Zhao, *Harbin Institute of Technology (China)*
[A016]
- 18) Mircostructure and properties of FE base alloy fabricated using selective laser melting**
Sun Manlong, Lu Li, and J.Y.H. Fuh, *National University of Singapore (Singapore)*
[A001]
- 19) Formation of W-Cu composites by laser sintering**
C.C. Leong, L. Lu , Y.H. Fuh, *National University of Singapore(Singapore)*
[A003]
- 20) Steam-assisted laser ablation of metal substrates**
Koh M.L, Hong MingHui, Lu Y.F, Zhu S., *Data Storage Institute, National University of Singapore (Singapore)*
[A041]
- 21) Laser thinning of the thickness of a-GeS₂ films**
Kawabata Shuichi, *Tokyo Institute of Polytechnics*; Murakami Yoshihisa, *Tsukuba College of Technology*; Ozawa Yasunori, Wakaki Moriaki, *Tokai University (Japan)*
[A048]
- 22) Steam Laser Cleaning: The Process and Applications**
Tam A.C., *IBM Almaden Research Center (USA)*; Zapka W., Lilischkis R., Ehrmann A., XaarJet AB, Jarfalla (Sweden)
[A134]
- 23) Laser Cleaning of Particles from Surfaces - Issues Relating to Sample Preparation**
Kane D.M., Fernandes A. J., *Macquarie University Sydney (Australia)*
[A135]
- 24) Laser cleaning technology and its application**
W.D. Song, Y.F. Lu, M.H. Hong, *Data Storage Institute, National University of Singapore (Singapore)*
[A020]
- 25) Laser surface cleaning of materials: modeling and diagnostics**
R. Oltra, D. Bauerle, P. Leiderer, J. Boneberg, W. Kautek, C. Fotakis, S. Georgiou, D. Anglos, M. Autric, C. Afonso, J. Solis, P. Wazen, (*Members of European Network "Laser cleaning"*)
[A082]
- 26) Optical Near Field Effects in Surface Nanostructuring and Laser Cleaning**
Muenzer H.J, Mosbacher M., Bertsch M., Dubbers O., Schrems G, Runge B.U., Baeuerle D., Leiderer P., Boneberg J. *University of Konstanz, Center for Modern Optics, (Germany)*; *Johannes-Kepler University, Institute of Applied Physics (Austria)*
[A136]
- 27) On the theory of nanosecond dry laser cleaning**
Arnold N., Schrems G, Muhlberger T., Bauerle D., Johannes Kepler Uni. Linz (*Austria*)

[A137]

28) Laser removal of micron contaminated colloidal silicon dioxide particles from the super-smooth optical glass substrate by pulse Nd:YAG laser

Shi XingKuan, Lu ShiQiang, *City University of Hong Kong (Hong Kong)*

[A139]

29) UV laser ablation and it's applications

Lou QiHong, *Shanghai Institute of Optics and Fine Mechanics (China)*

[A140]