

LISTS OF PUBLISHED PAPERS

(Accepted May-July, 2000)

CONDENCED MATTER AND MATERIAL

Mn Impurity in Ga_{1-x}Mn_xAs Epilayers

J. SZCZYTKO¹, A. TWARDOWSKI¹, K. SWIATEK¹,
M. PALCZEWSKA¹, M. TANAKA², T. HAYASHI² and
K. ANDO

¹Warsaw Univ.

²Univ. of Tokyo

Phys. Rev. B **60** 11 (1999) 8304-8

Faraday Rotation in Co³⁺-Substituted Magnetic Garnets

Atsuko TAKEUCHI¹, Koji ANDO,
Kimihiro SHINAGAWA¹, Toshiaki SAITO and
Tachiro TSUSHIMA

¹Toho Univ.

IEEE Trans. Magn. **35** 5 pt.1 (1999) 3139-41

Formation of Ferromagnetic Sub-micron Particels of MnAs and MnGa on GaAs Substrate by Ion Implantation

Koji ANDO, Hisao TANOUE, Atsuhiko CHIBA¹,
Fumiyosi KIRINO² and Masaaki TANAKA³

¹Univ. of Tsukuba

²Hitachi Ltd.

³Univ. of Tokyo

IEEE Trans. Magn. **35** 5 (1999) 3463-3465

Temperature Dependence of the Faraday Effect in Co²⁺-Substituted Magnetic Garnet

Kimihiro SHINAGAWA¹, Sumie MATSUBARA¹,

Koji ANDO, Toshiaki SAITO¹ and
Tachiro TSUSHIMA¹

¹Toho Univ.

J.Magnetism and Magnetic Materilas **196-197** (1999)
595-596

Optical Waveguide Isolator Based on Nonreciprocal Loss/gain of Amplifier Covered by Ferromagnetic Layer

Wadim ZAETS and Koji ANDO

IEEE Photonics Technology Letters **11** 8 (1999)
1012-1014

Magneto-Optics of Diluted Magnetic Semiconductors : New Materials and Applications

Koji ANDO

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Recent Progress on High-Quality Homoepitaxial Diamond Films

Hideyo OKUSHI and Hiroshi KAWARADA

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電子デバイス用高品質単結晶ダイヤモンド薄膜の開発

大串 秀世

MRS-J NEWS **11** 2 (1999)

「電子デバイス用ダイヤモンド薄膜」

大串 秀世
工業技術 9 (1999)

Shigeru NIKI and Akimasa YAMADA

¹Miyazaki Univ.

Technical Digest 11th International Photovoltaic Science and Engineering Conference (1999) 449

Photoluminescence Properties of Sodium Incorporated in CuInSe₂ Thin Films

Ryuhei KIMURA¹, Takuhei MOURI²,
Tokio NAKADA², Shigeru NIKI, Yves LACROIX,
Takeo MATSUZAWA², Kiyoshi TAKAHASHI² and
Akio KUNIOKA²

¹Teikyo Univ. of Science and Technology

²Aoyama Gakuin Univ.

Jpn. J. Appl. Phys. **38** (1999) L289

Photoluminescence Properties of Sodium Incorporated in CuInSe₂ Thin Films

Ryuhei KIMURA¹, Takuhei MOURI²,
Tokio NAKADA², Paul FONS, Akimasa YAMADA,
Shigeru NIKI, Takeo MATSUZAWA²,
Kiyoshi TAKAHASHI² and Akio KUNIOKA²

¹Teikyo Univ. of Science and Technology

²Aoyama Gakuin Univ.

Technical Digest 11th International Photovoltaic Science and Engineering Conference (1999) 455

Piezoelectric Photoacoustic Spectra of CuInSe₂ Thin Film Grown by Molecular Beam Epitaxy

Kenji YOSHINO¹, Atsuhiko FUKUYAMA¹,
Hiroari YOKOYAMA¹, Kouji MAEDA¹, Paul J. FONS,
Akimasa YAMADA, Shigeru NIKI and Tetsuo IKARI¹

¹Miyazaki Univ.

Thin Solid Films **343-344** (1999) 591

Reexamination of the Electronic Structure of Bi₂Sr₂CaCu₂O_{8+d}: Electronlike Portions of the Fermi Surface and Depletion of Spectral Weight Near M-bar

Y. D. CHUANG¹, A. D. GROMKO¹,
S. D. DESSAU¹, Yoshihiro AIURA, Yuji YAMAGUCHI,
Kunihiko OKA, A. J. ARKO², J. JOYCE², H. EISAKI³,
S. I. UCHIDA³, NAKAMURA⁴ and ANDO⁴

¹Univ. of Colorado

²Los Alamos National Laboratory

³Univ. of Tokyo

⁴Central Research Institute of Electric Power Industry
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Effects of Sodium on CuIn₃Se₅ Thin Films

Ryuhei KIMURA¹, Takuhei MOURI²,
Tokio NAKADA², Shigeru NIKI, Akimasa YAMADA,
Paul FONS, Takeo MATSUZAWA²,
Kiyoshi TAKAHASHI² and Akio KUNIOKA¹

¹Teikyo Univ. of Science and Technology

²Aoyama Gakuin Univ.

Jpn. J. Appl. Phys. **38** (1999) L899

A Re-examination of the Electronic Structure and Fermi Surface of BSCCO

S. D. DESSAU, Y. D. CHUANG¹, A. D. GROMKO¹,
Yoshihiro AIURA, Yuji YAMAGUCHI, Kunihiko OKA,
A. J. ARKO², J. JOYCE², EISAKI³, UCHIDA³,
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¹Univ. of Colorado

²Los Alamos National Laboratory

³Univ. of Tokyo

⁴Central Research Institute of Electric Power Industry

Optical Properties of High Quality CuGaSe₂ Epitaxial Layers Examined by Piezoelectric Photoacoustic Spectroscopy

Kenji YOSHINO¹, Daisuke MARUOKA¹,
Atsuhiko FUKUOKA¹, Hiroari YOKOYAMA¹,
Kouji MAEDA¹, Tetsuo IKARI¹, Paul J. FONS,

International Journal of Modern Physics B **13** (1999)
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MBE成長窒化物半導体の表面構造

奥村 元, 沈 旭強, 井手 利英¹, 清水 三聡,
原 史朗, 園田 早紀², 清水 三郎²
¹ 明治大
² 日本真空技術
表面科学 **21** 3 (2000) 45-52

Development of High Purity One Atm Ozone Source -its Application to Ultrathin SiO₂ Film Formation on Si Substrate

Kunihiko KOIKE¹, Goichi INOUE¹,
Shingo ICHIMURA, Ken NAKAMURA,
Akira KUROKAWA and Hidehiko NONAKA
¹Iwatani International Co.
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電気力顕微鏡

横山 浩, 井上 貴仁
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井上 貴仁, 伊藤 順司, 横山 浩
固体物理 **34** 12 (1999) 949

Nanometer-Scale Imaging of Electrical Features in Organic Thin Films by Scanning Maxwell-Stress Microscopy

H. K. SHIN¹, T. INOUE, Y. S. KWON¹ and
H. YOKOYAMA
¹Dong-A Univ.

Synthetic Metals **102** (1999) 1579

Friction of Ice Measured using Lateral Force Microscopy

H. BLUHM¹, T. INOUE and M. SALMERON¹
¹Lawrence Berkeley National Lab.
Physical Review B **61** (1999) 7760

Structural Investigation of Spiropyran Containing Langmuir-Blodgett Films using Scanning Probe Microscope Technique

Y. HIRATA¹, T. INOUE, F. MIZUTANI¹ and
H. YOKOYAMA
¹NIBH
Mol. Cryst. Liq. Cryst. **327** (1999) 249

Antiferromagnetic Organic Metal Exhibiting Superconducting Transition, κ -(BETS)₂FeBr₄ [BETS=Bis(ethylenedithio)tetraselenafulvalene]

E. OJIMA¹, H. FUJIWARA¹, K. KATO¹,
H. KOBAYASHI¹, H. TANAKA², A. KOBAYASHI²,
M. TOKUMOTO and P. CASSOUX³
¹IMS
²Univ. of Tokyo
³LCC du CNRS
J. Am. Chem. Soc. **121** (1999) 5581-5582

On the Low-Temperature States of Highly Correlated BETS Conductors

H. KOBAYASHI¹, H. AKUTSU¹, H. TANAKA²,
A. KOBAYASHI², M. TOKUMOTO, L. BROSSARD³
and P. CASSOUX⁴
¹IMS
²Univ. of Tokyo
³LPMC, SNCMP, INSA
⁴LCC du CNRS
Synthetic Metals **102** (1999) 1654-1657

**The Phase Diagram of α -(ET)₂TlHg(SCN)₄:
An Electrodynamic Investigation**

S. HILL¹, J.S. BROOKS², B.W. FRAVEL³,
L.K. MONTGOMERY³, M. TOKUMOTO,
N. KINOSHITA, T. KINOSHITA and Y. TANAKA

¹Montana State Univ.

²NHMFL

³Indiana Univ.

Synthetic Metals **103** (1999) 1807-1808

**Non-Linear Conductance in SDW Phase of
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A. HOSHIKAWA¹, K. NOMURA¹, S. TAKASAKI²,
J. YAMADA², S. NAKATUJI², H. ANZAI²,
M. TOKUMOTO and N. KINOSHITA

¹Hokkaido Univ.

²Himeji Institute of Technology

Synthetic Metals **103** (1999) 2095-2096

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J. I. OH¹, M. J. NAUGHTON¹, T. COURCET²,
I. MALFANT², P. CASSOUX², M. TOKUMOTO,
H. AKUTAU³, H. KOBAYASHI³ and
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¹SUNY

²LCC du CNRS

³IMS

⁴Univ. of Tokyo

Synthetic Metals **103** (1999) 1861-1864

**Structural and Magnetic Properties of the
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A. E. PULLEN¹, K. I. POKHODNYA¹,
C. FAULMANN¹, M. TOKUMOTO and P. CASSOUX¹

¹LCC-CNRS

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**Direct Observation of Spontaneous
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M. TOKUMOTO, Y. TSUBAKI¹, K. POKHODNYA²,
A. OMERZU², T. UCHIDA¹ and D. MIHAJLOVIC²

¹Science Univ. of Tokyo

²Jozef Stefan Institute

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**New High Field Angular Dependent Aspects of
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 α -(BEDT-TTF)₂MHg(SCN)₄ (M=K or NH₄)**

J. S. QUALLS¹, J. S. BROOKS¹,
J.A.A.J. PERENBOOM², T. TERASHIMA³ and
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¹FSU

²Univ. Nijmegen

³NRIM

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**Synthesis and Characterization of Liquid-Phase
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T. SAITO¹, Y. AKITA¹, M. TOKUMOTO,
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¹Kyoto Univ.

²SUNY

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**Effect of Cooling Speed on Superconductivity of
 κ -(BEDT-TTF)₂Cu[N(CN)₂]Br
- Isotope Effect Revisited -**

M. TOKUMOTO, N. KINOSHITA, Y. TANAKA,
T. KINOSHITA and H. ANZAI¹

¹Himeji Institute of Technology

Synthetic Metals **103** (1999) 1971

**Low Temperature Structural Analysis of a
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B. NARYMBETOV¹, H. KOBAYASHI¹,
M. TOKUMOTO, A. OMERZU² and D. MIHAIOVIC²

¹*Institute for Molecular Science*

²*Jozef Stefan Institute*

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**走査型トンネル顕微鏡による
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徳本 圓

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ELECTRONIC DEVICES

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**トランジスタ型強誘電体メモリのための
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**Room Temperature Operated Single Electron
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Kazuhiko MATSUMOTO

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応用電子物性分科会研究例会資料

**Experimental and Simulated Results of Room
Temperature Single Electron Transistor
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Yoshitaka GOTOH, Kazuhiko MATSUMOTO,
Vladimir BUBANJA, Francisco VAZQUEZ,
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*Extended Abstracts of the 1999 International
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**AFM微細加工法による
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松本 和彦, 後藤 芳孝, 前田 辰郎

日本物理学会誌 9月号「最近の研究から」 **54** 9

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**Terabit per Square Inch Data Storage with
the Atomic Force Microscope**

E. B. COOPER¹, S. R. MANALIS¹, H. FANG²,
H. DAI², K. MATSUMOTO, S. C. MINN², T. HUNT²
and C. F. QUATE²

¹*MIT*

²*Stanford Univ.*

Appl. Phys. Lett. **75**, 3566 (1999)

**Room Temperature Single Electron Memory
Made by Pulse-Mode Atomic Force Microscopy
Nano-Oxidation Process on Atomically Flat
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Kazuhiko MATSUMOTO, Yoshitaka GOTOH,
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¹NIST
²Stanford Univ.
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**Epitaxial Growth Technology of Oxide Thin
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Shigeki SAKAI, Shinji MIGITA,
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*Extended Abstracts of 18th Symposium on Future
Electron Devices FED-169* (1999) 147-152

2050年を展望した運輸とエネルギー

笛木 和雄¹, 太田健一郎², 石井 格,
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¹東京理科大学
²横浜国立大学
³筑波大学
⁴機械技術研究所
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**超電導磁気エネルギー貯蔵 (SMES) と
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INFORMATION SCIENCE

**Data flow Analysis of IntelligentPad - a Basis of
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Makoto HARAGUCHI¹, Atsushi HIRATA¹ and
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¹Hokkido Univ.
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**RHiNETによる共有メモリプログラミング
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建部 修見, 工藤 知宏¹, 山本 淳二¹,
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三浦 信明¹, 建部 修見, 北尾 修¹,
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¹物質研
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中田 秀基
¹東工大
情報処理学会研究報告 99-HPC-77 (1999)

**Design and Implementations of Ninf: towards a
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Hidemoto NAKATA, Mitsuhsa SATO¹,
Satoshi SEKIGUCHI
¹Real World Computing Partnership
Future Generation Computing Systems

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後藤 真孝

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**VSmart: A Virtual Stock Market as a Forum
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Koichi KURUMATANI, Yuhsuke KOYAMA¹,

Takao TERANO², Hajime KITA³,

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Yoshinori SHIOZAWA⁵ and Hitoshi MATSUBARA

¹Kyoto Univ.

²Univ. of Tsukuba

³Tokyo Institute of Technology

⁴National Defense Academy of Japan

⁵Osaka City Univ.

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**仮想市場 V-Mart - マルチエージェントシ
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車谷 浩一, 小山 友介¹, 松原 仁

¹ 京都大学

計測自動制御学会システム情報部門シンポジウム
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**Body Parts Position and Posture Estimation
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Tatsuya HARADA¹, Taketoshi MORI¹,

Yoshifumi NISHIDA, Tomohisa YOSHIMI² and

Tomomasa SATO¹

¹Univ. of Tokyo

²Denso Co.

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Robotics and Automation 2 (1999) 968-975

**Understanding Physiological Status through
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Yoshifumi NISHIDA, Taketoshi MORI¹,

Tomomasa SATO¹ and Shigeoki HIRAI

¹Univ. of Tokyo

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**コーパスからインテリジェント
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橋田 浩一

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**理工系とのトランスディシプリンの道
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橋元 良明³, 波多野諠余夫⁴

¹ 日本女子大学

²ATR

³ 東京大学

⁴ 慶応義塾大学

社会言語科学

A Computational Model of Spatial Development

Kazuo HIRAKI, Akio SASHIMA and

Steven PHILLIPS

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**Distributed Computation Environments that
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Yoshihiko NAKAMURA¹, Katsu YAMANE¹,
Hirohisa HIRUKAWA and Shiro NAGASHIMA²
¹Univ. of Tokyo
²Fujitsu Laboratory
Proc. International Symposium on Robotics Research

BIOSCIENCE

fMRIにおけるノイズ

中井 敏晴, 村木 茂, 松尾香弥子
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**Combinatorial Receptor Coding for Odors of
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Junzo HIRONO, Bettina MALNIC¹, Takaaki SATO
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¹*Dept. of Neurobiology, Harvard Medical School
Neuroscience Research* **23** (1999) S234

伸展活性化Ca²⁺透過性チャネルMid1

小島 至¹, 飯田 秀利²,
曾我部正博³, 佐藤 主税
¹群馬大
²学芸大
³名古屋大

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**yam8+, a Schizosaccharomyces Pombe Gene, is a
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Yasushi TASAKA¹, Yuko NAKAGAWA²,
Chikara SATO, Masanobu MINO¹,
Nobuyuki UOZUMI³, Norio MURATA⁴,
Shoshi MURATA³ and Hidetoshi IIDA²

¹*Research Inst. for Biological Sci.*

²*Tokyo Gakugei Univ.*

³*Nagoya Univ.*

⁴*National Institute of Basic Biology
Biochemical and Biophysical Research
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海馬体と連合皮質系

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**Development of a Scanning Hall Probe
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Tomoaki FUKUMURA¹, Hiroharu SUGAWARA¹,
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Hiroyuki SAKAKI¹
¹*Univ. of Tokyo*
¹*Tokyo Institute of Technology*
Micron **30** 6 (1999) 575-578

**Three-Dimensional Photonic Crystal
Waveguide with Sharp Bend**

Noritsugu YAMAMOTO, Susumu NODA¹ and
Alongkanrn CHUTINAN¹
¹*Kyoto Univ.*
*Technical Digests of the International Workshop on
Photonic and Electromagnetic Crystal Structures T4-2*
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**Ultra-Short Pulse Propagation
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Tomoko TANAKA¹, Susumu NODA²,
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¹*ATR*
²*Kyoto Univ.*
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**Ultra-Short Pulse Propagation in 3D Photonic
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Tomoko TANAKA¹, Susumu NODA²,
Alongkanrn CHUTINAN², Takashi ASANO² and
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¹*ATR*
²*Kyoto Univ.*
*Proc. of the 7th IEEE International Conference on
Terahertz Electronics* (1999)

**Measurements of Response Function of a
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K. MIYAMOTO¹, Y. KAWADA¹, N. TAKADA,
H. TOYOKAWA, H. OHGAKI,
K. KUDO and T. SUGITA²
¹*Seikei Univ.*
²*Science System Laboratory*
*Proceedings of the 13th Workshop on Radiation
Detectors and Their Uses* (1999)

**Status of the Free Electron Laser Experiments
with the Storage Ring NIJI-IV in 1999**

Norihiro SEI, Kawakatsu YAMADA,
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¹*Kyoto University*
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Science and Technology* (1999) 388-390

**Optically Controlled Alignment of Liquid
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Hiroshi SHITOMI, Toshio IBUKI¹,
Setsuko MATSUMOTO² and Hideo ONUKI
¹*Kyoto University of Education*
²*Meiji University*
Japanese Journal of Applied Physics **38** Suppl.38-1
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**New Fiber-Optic Attenuator Calibration
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Ranjit SINGH¹ and Tomoteru KAWAKAMI

¹*AIST fellow*

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**Field Error and its Effect on the Plasma
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Haruhisa KOGUCHI, Yasuyuki YAGI,

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**New Technique for Measuring Low Fiber-Optic
Attenuation using Double Square-Law
Detection**

Ranjit SINGH¹ and Tomoteru KAWAKAMI

¹*AIST Fellow*

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**第5章 光・放射の計測
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齊藤 一郎，鈴木 健一¹

¹ 松下電子工業（株）

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ENVIRONMENT TECHNOLOGY

磁気分離に関する共同研究報告書

小田 好博¹，船坂 英之¹，王 曉丹²，

小原 健司，和田 仁²

¹ 核燃料サイクル開発機構

² 金属材料技術研究所

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