

## List of Published Presentation Papers (Des.2000—Feb.2001)

| Date of Presentation | Name of Paper   | Name of Publication   | Volume                            | Presenter  | * outsiders  |
|----------------------|---|---|-----------------------------------|--|--|
| 2000/12/01           | Characterization of fission yeast meiotic mutants based on live observation of meiotic prophase nuclear movement              | CHROMOSOMA  | pp103-109                         | Yasushi HIRAOKA<br>Ayumu YAMAMOTO<br>Yuji CHIKASHIGE                                     | Ding Da-Qiao<br>Chihiro TSUTSUMI   |
| 2000/12/01           | Applications of the figure-8 Satellite System   | SPACE COMMUNICATIONS  | Vol.16 No.4<br>pp215-226          | Masato TANAKA<br>Seiichiro KAWASE  | Kazuhiro KIMURA<br>Hiromitsu WAKANA  |
| 2000/12/01           | An Initio Calculations of First-Order Hyperpolarizabilities for Donor-Acceptor Azobenzenes and their Dimers                   | NONLINEAR OPTICS  |                                   | Yoshishige OKUNO<br>Shiyoshi YOKOYAMA  | Shinro MASHIKO   |
| 2000/12/01           | QoS Restratement that maintains minimum QoS requirements —A new approach for failure restoration                              | IEICE TRANSACTIONS ON COMMUNICATIONS  | Vol.E83-B<br>No.12<br>pp2626-2634 | Fumito KUBOTA<br>Hiroyuki SAITO*<br>Takahiro KOMINE                                      | Takashi EGAWA*<br>Shushi UETSUKI*<br>Hideki OTSUKI                               |
| 2000/12/01           | Artificial Star Generation Using Nd:YAG Laser and 1.5m Telescope ( in Japanese )  | THE REVIEW OF LASER ENGINEERING   | Vol.28 No.12<br>pp819-823         | Shin YOSHIKADO<br>Li Shuwing   | Shin OYA<br>Tadashi ARUGA  |
| 2000/12/01           | ORIENTATION OF MAIN-CHAIN ACCORDION POLYMERS HAVING DIFFERENT ALKYL CHAINS  | MOLECULAR CRYSTALS AND LIQUID CRYSTALS SCIENCE AND TECHNOLOGY SECTION A-MOL                 | Vol.349<br>pp171-174              | Lee Seung-Hwan<br>Toshiyuki WATANABE*<br>Kaori KAKOJIMA*<br>Shinro MASHIKO               | Shiro FUJITA*<br>M. Talukder*<br>G. A. Lindsay*<br>W. N. Herman*<br>K. J. Wynne* |
| 2000/12/01           | The phase shift at Brewster's angle on a slightly rough surface   | IEICE TRANSACTIONS ON ELECTRONICS   | Vol.E83-C<br>No.12<br>pp1844-1848 |  | Tetsuya KAWANISHI  |
| 2000/12/01           | Reciprocating Optical Modulation for 3rd Order Harmonic Generation ( in Japanese )  | THE TRANSACTIONS OF THE INSTITUTE OF ELECTRONICS, INFORMATION AND COMMUNICATION ENGINEERS C |                                   | Tetsuya KAWANISHI<br>Shinichi SHIMOTSU<br>Masayuki IZUTSU                                | Masahide SASAKI<br>Satoshi OIKAWA  |
| 2000/12/01           | The Future Generations of Mobile Communications Based on Broadband Access Technologies  | IEEE COMMUNICATIONS MAGAZINE  | Vol.38 No.12<br>pp134-142         | Shingo OMORI<br>Nobuo NAKAJIMA*  | Yasushi YAMAO*   |
| 2000/12/01           | Observational and Analytical Studies on the Mechanism of the Long-Range Transport of Aeolian Dust                             | JOURNAL OF ARID LAND STUDIES  | Vol.10 No.3<br>pp238-245          | Motoaki YASUI<br>Kenji KAI*<br>Takeshi OTOMO*<br>Kohe MIZUTANI*<br>Akihiko ITO*          | Kiyoshi TSUCHIYA*<br>Toshikazu UEHARA*<br>Tomohiro NAGAI*<br>Jun MIYAMOTO*       |
| 2000/12/01           | Rain-Profiling Algorithm for the TRMM Precipitation Radar   | JOURNAL OF APPLIED METEOROLOGY  | Vol.39 No.12<br>pp2038-2052       | Toshio IGUCHI<br>R. Meneghini*<br>Kenichi OKAMOTO*                                       | Toshiaki KOZU*<br>Jun AWAKA*   |
| 2000/12/01           | Coherent Phonons in InSb and their properties from femtosecond pump-probe experiments   | PHYSICA B   | Vol.293<br>pp33-37                | O.V. Missotchko<br>Kiyomi SAKAI  | Gu Ping  |
| 2000/12/11           | Super-narrowing mirrorless laser emission in dendrimer-doped polymer waveguides   | APPLIED PHYSICS LETTERS   | Vol.77 No.24<br>pp3881-3883       | Akira OTOMO<br>Tatsuo NAKAHAMA   | Shiyoshi YOKOYAMA<br>Shinro MASHIKO  |
| 2000/12/15           | The shift of Brewster's scattering angle  | OPTICS COMMUNICATIONS   | Vol.186<br>pp251-258              | Tetsuya KAWANISHI  |  |
| 2000/12/15           | Tracking of Wave-like Structures in the OI 630-nm Nightglow over Japan Using an All-sky Imagers Network during FRONT Campaign | GEOPHYSICAL RESEARCH LETTERS  | Vol.27 No.24<br>pp4037-4041       | Minoru KUBOTA<br>Sho EJIRI*<br>Tadahiko OGAWA*<br>Hiroshi FUKUNISHI*<br>Mamoru YAMAMOTO* | Kazuo SHIOKAWA*<br>Yuichi OTSUKA*<br>Takeshi SAKANOI*<br>Shoichiro FUKAO*        |
| 2000/12/18           | Detection of up to 20 THz with a low-temperature-grown GaAs photoconductive antenna gated with 15 fs light pulses             | APPLIED PHYSICS LETTERS   | Vol.77 No.25<br>pp4104-4106       | Shunsuke KOUNO<br>Gu Ping  | Masahiko TANI<br>Kiyomi SAKAI  |
| 2000/12/20           | Spectral holography and its application to photonic packet routing ( in Japanese )  | OPTICAL AND ELECTRO-OPTICAL ENGINEERING CONTACT   | Vol.38 No.12<br>pp717-725         |  | Naoya WADA   |
| 2000/12/20           | Intermolecular Coupling Enhancement of the Molecular Hyperpolarizability in NLO Dendrons                                      | NONLINEAR OPTICS  | Vol.24<br>pp47-50                 | Shiyoshi YOKOYAMA  | Shinro MASHIKO   |
| 2000/12/31           | Single side-band modulation performance of a LiNbO3 integrated modulator consisting of four-phase modulator waveguides        | IEEE PHOTONICS TECHNOLOGY LETTERS   | Vol.13 No.4<br>pp364-366          | Shinichi SHIMOTSU<br>Kenichi KUBODERA*<br>Tetsuya KAWANISHI                              | Satoshi OIKAWA<br>Naoki MITSUKI*<br>Masayuki IZUTSU                              |
| 2001/01/01           | An Optical Search for Near-Synchronous Debris: Survey of 90 Degrees in Right Ascension ( in Japanese )                        | JOURNAL OF THE JAPAN SOCIETY FOR AERONAUTICAL AND SPACE SCIENCES                            | Vol.49 No.564<br>pp1-8            | Hiroaki UMEHARA  | Kazuhiro KIMURA  |
| 2001/01/01           | Mechanism for Assembling Antenna in space —Development and Verification on Engineering Test Satellite VII—                    | IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS                                       | Vol.37 No.1<br>pp254-265          | Yoshiaki SUZUKI<br>Tetsuo TAKAHASHI<br>Shinichi KIMURA                                   | Shigeru TSUCHIYA<br>Toshiyuki OKUYAMA<br>Yasushi NAGAI*                          |
| 2001/01/01           | Morphological Analysis Based on A Maximum Entropy Model—An Approach to the Unknown Word Problem— ( in Japanese )              | JOURNAL OF NATURAL LANGUAGE PROCESSING  | No.7 No.6<br>pp127-141            | Kiyotaka UCHIMOTO<br>Hitoshi ISAHARA   | Satoshi SEKINE*  |

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|------------|--|---|--------------------------|---|
| 2001/01/01 | <b>Robotic Communication Terminals as a Mobility Support System for Elderly and Disabled People</b> ( in Japanese )                          | JOURNAL OF JAPANESE SOCIETY FOR ARTIFICIAL INTELLIGENCE                                     | Vol.16 No.1 pp139-142    | Ikuko YAIRI Seiji IGI   |
| 2001/01/01 | <b>Statistical analysis of long-duration low-density solar wind events</b>   | ANNALES GEOPHYSICAE-ATMOSPHERES HYDROSPHERES AND SPACE SCIENCES                             | Vol.19 No.1 pp17-23      | Shinichi WATARI Takashi WATANABE* Katsuhide MARUBASHI   |
| 2001/01/01 | <b>Development of a Rectenna Array Mounted on a Conducting Cylinder</b> ( in Japanese )  | THE TRANSACTIONS OF THE INSTITUTE OF ELECTRONICS, INFORMATION AND COMMUNICATION ENGINEERS B | Vol.J84-B No.1 pp71-81   | Yoshiyuki FUJINO Yoshihiko MIZUGUCHI*   |
| 2001/01/01 | <b>An Example-Based Approach to Japanese-to-English Translation of Tense, Aspect, and Modality</b> ( in Japanese )                           | JOURNAL OF JAPANESE SOCIETY FOR ARTIFICIAL INTELLIGENCE                                     | Vol.16 1C pp20-28        | Masaki MURATA Ma Qing Kiyotaka UCHIMOTO Hitoshi ISAHARA   |
| 2001/01/01 | <b>In vivo Exposure Setups for Animal Studies on Biological Effects of Electromagnetic Exposure from Cellular Telephones</b> ( in Japanese ) | THE TRANSACTIONS OF THE INSTITUTE OF ELECTRONICS, INFORMATION AND COMMUNICATION ENGINEERS B | Vol.J84 No.1 pp19-28     | Souichi WATANABE Masao TAKI*  |
| 2001/01/11 | <b>Preliminary Results of Airborne SAR (Pi-SAR) Observation of Usu Volcano, Hokkaido</b> ( in Japanese )                                     | THE TRANSACTIONS OF THE INSTITUTE OF ELECTRONICS, INFORMATION AND COMMUNICATION ENGINEERS B | Vol.J84-B No.1 pp134-136 | Seiho URATSUKA Toshihiko UMEHARA Akitsugu NADAI Makoto SATAKE Hideo MAENO Takeshi MATSUOKA Harunobu MASUKO                                  |
| 2001/01/18 | <b>40 Gbit/s photonic packet compression and decompression by supercontinuum generation</b>  | ELECTRONICS LETTERS   | Vol.37 No.2 pp110-111    | Hideyuki SOTOBAYASHI Kenichi KITAYAMA* Wataru CHUJO   |
| 2001/02/01 | <b>Block-Coded Modulation and Multiple Block-Coded Modulation With Viterbi Decoding for Fading Channels</b>                                  | IEEE JOURNAL ON SELECTED AREAS IN COMMUNICATIONS  | Vol.19 No.2 pp202-210    | Li Huan-Bang Hiromitsu WAKANA Masato TANAKA   |
| 2001/02/01 | <b>The source,size and chemical composition of the winter arctic tropospheric aerosol layer observed by lidar at Eureka,Canada</b>           | JOURNAL OF THE METEOROLOGICAL SOCIETY OF JAPAN  | Vol.79 No.1 pp61-78      | Shouken ISHII Takashi SHIBATA* Tetsu SAKAI* Mizuka KIDO* Keiichiro HARA* Kazuo OSADA* Yasunobu IWASAKA* Tomohiro NAGAI* Toshifumi FUJIMOTO* |
| 2001/02/01 | <b>Active stabilization of a higher-order mode-locked fiber laser operating at a pulse-repetition rate of 154 GHz</b>                        | OPTICS LETTERS  | Vol.26 No.3 pp151-153    | Abedin Kazi Sarwar Masaharu HYODO Noriaki ONODERA   |
| 2001/02/01 | <b>Gradual Increase in the Obliquity of Uranus due to Tidal Interaction with a Hypothetical Retrograde Satellite</b>                         | ICARUS  | Vol.114 pp21-32          | Toshihiro KUBOOKA   |
| 2001/02/01 | <b>Equilibrium figure of a rotating body composed of two-layered incompressible fluids with application to the theory of lunar origin</b>    | ASTRONOMY AND ASTROPHYSICS  | pp785-794                | Toshihiro KUBOOKA   |
| 2001/02/01 | <b>Long-term effect of solar radiation on the orbit of an octagonal satellite orbiting around the Moon</b>                                   | ADVANCES IN SPACE RESEARCH  | pp727-731                | Toshihiro KUBOOKA   |
| 2001/02/01 | <b>Increase in hypoxanthine-guanine phosphoribosyl transferase gene mutations by exposure to electric field</b>                              | LIFE SCIENCES   |                          | Kanako WAKE Gui-Rong Ding* Masao TAKI* Junji MIYAKOSHI*   |
| 2001/02/01 | <b>Geometrical Construction of Holonomy in Three-Dimensional Hyperbolic Manifold</b>   | CLASSICAL AND QUANTUM GRAVITY   | Vol.10 pp219-231         | Yoshihisa FUJIWARA  |
| 2001/02/01 | <b>Point Particles as Defects in (2+1)-Dimensional Quantum Gravity</b>   | CLASSICAL AND QUANTUM GRAVITY   | Vol.9 pp867-872          | Yoshihisa FUJIWARA Saburo HIGUCHI* Akio HOSOYA* Takashi MISHIMA* Masaru SHIINO  |
| 2001/02/01 | <b>Analysis of Coaxial Periodic Dielectric Waveguides by an Extension of Floquet's Theorem</b>   | JAPANESE JOURNAL OF APPLIED PHYSICS PART 1—REGULAR PAPERS SHORT NOTES & REV                 | Vol.40 2A pp918-919      | Toshihiro HORI  |
| 2001/02/20 | <b>Intermolecular Coupling Enhancement of the Molecular Hyperpolarizability in Multi Chromophoric Dipolar Dendrons</b>                       | MATERIAL RESEARCH SOCIETY SYMP. PROC.   | Vol.598 pp391-396        | Shiyoshi YOKOYAMA Akira OTOMO Shinro MASHIKO  |