

List of Other Research Papers Published Overseas

(From April 2024 to April 2025)

[SPIE Future sensing technologies 2024] 2024.04, Japan

High accuracy object detection by an optical neural network implementation

Mamoru Otake, Shun Miura,
Hiroyuki Kusaka, Masahiro Kashiwagi,
Yuichiro Kunai, Takayoshi Nanbara &
Yumi Yamada

[9th International Conference on Superconductivity & Magnetism (ICSM 2024)] 2024.04, Turkey

Homogeneous and Productive BMO-Doped REBCO Coated Conductor
Developed by Hot-Wall PLD on IBAD Templated Substrate

Yasuhiro Iijima, M. Ohsugi, K. Kakimoto,
S. Muto, W. Hirata, S. Fujita,
N. Nakamura, S. Hanyu and
M. Daibo (Fujikura)
Fujikura
SC Promotion Office

[IJune 2024 ITU Journal] 2024.04,

Latest Trends and Future Challenges in Multicore Fiber Connection and Optical Cable Research

Katsuhiro Takenaga (OC)
Fujikura

[12th International Conference on Automotive Wiring Systems] 2024.05, Germany

Optical Data Transmission Systems for EDS
Kazu ITOI

[2024 IEEE Radar Conference] 2024.05, Denver, Colorado

Mixed near- and far-field 2D imaging with sparse arrays
Gabriel Schnoering (FTES)

[2024 LQE May Study Group LQE30 Year Anniversary Study Group] 2024.05, Japan

Development Status of Near-Infrared High-Power Laser Diodes

Yuuji Yamagata,¹ Rintarou Morohashi,¹
Masahiro Uchiyama,¹
Yoshikazu Kaibuchi,²
Toshiyuki Kawakami,²
Yoshihiro Terada¹

1: Fujikura Photonic R & D Center Co., Ltd.

2: Fujikura Fiber Laser Division, Inc.

[The 61 Heat Transfer Symposium] 2024.05, Japan

Heat Transport Characteristics of Tower-Type Vapor Chambers

Fujikura Co., Ltd.
Electronic Components Development
Dept., Business Development & Planning
Center
Thermal Tech Development Group
○Harutoshi Hagino
Takeshi Koshio
Yoji Kawahara

[The 61 Heat Transfer Symposium] 2024.05, Japan

Evaluation of Heat Transport Performance of Vapor Chambers with Metal Particle Sintering Wicks

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Dept., Business Development & Planning
Center
Thermal Tech Development Group
○Takeshi Koshio
Harutoshi Hagino
Thanhlong.Phan
Yuji Saito
Yoji Kawahara

[ITherm 2024] 2024.05, USA

Thermal Performance of Transient Liquid Phase Diffusion-Bonded Multi-Layer Cold Plate

*Masahiro Matsuda, Yoji Kawahara,
Yasuhiro Horiuchi,
Yuichiro Tahara, Yuji Saito,
Toshimizu Tomitsuka

[Laser Studies of the Laser Society Vol. 52 No. 9] 2024.05,

High density mounting type optical fiber Cable

Akira Kori, Noritaka.Ukiya,
Yusuke Tsujimoto, Akira Namazue,
Satoru Murata, Shoichiro Matsuo,
Takaaki Ishikawa, Ken Osato
Fujikura

[electric installation technology] 2024.05,

Recent trends in prefabricated and unit cables

Yuki Higashi
Nishi Nippon Cable
Wiring Systems Division Wiring Systems Engineering Department RC Engineering Group 1

[electric installation technology] 2024.05,

Types, features, and selection methods of information and communication cables

Kakuji Mori

Fujikura Diamond Cable
engineering department

[International Microwave Symposium 2024 Industry workshop] 2024.06, USA

Over-the-air mmWave phased array distortion analysis and linearization testing

Fabricio Dourado, Lei Xu

[International Microwave Symposium 2024 Industry workshop] 2024.06, USA

FPGA-Accelerated Deep Learning for 5G FR2 Channel Estimation

Luc Langlois, Fabrício Dourado,
Yoshiharu Fujisaku,
Noam Levine

[International Microwave Symposium 2024 MicroApps] 2024.06, USA

Beam direction accuracy and 2D radiation antenna pattern measurements of 256 elements phased array

Yujiro Tojo

[International Microwave Symposium 2024 MicroApps] 2024.06, USA

How to measure beam switching speed, why is it important and what is the necessary performance?

Fabricio Dourado, Yujiro Tojo

[COMNEXT 3rd Next Generation Communications Technology & Solutions Exhibition] 2024.06, Japan

The Future of Optical Fiber Technology for AI Data Centers

Takuya Oda

Optical Communications Research
Department

[2024 IEEE Radio Frequency Integrated Circuits Symposium (RFIC)] 2024.06, USA

A 21_27-GHz Frequency Quadrupler in 0.13 μ m SiGe BiCMOS with 0-dBm POUT and 40-dBc HRR for Wideband 5G Applications

Caglar Ozdag,¹ Arun Paidimarri,¹
Masayuki Yoshiyama,²
Yuichiro Yamaguchi,² Yujiro Tojo,²
Bodhisatwa Sadhu¹

1: IBM,

2: Fujikura

Millimeter-Wave Device Research
Department, MBG

[Fiber Connect 2024] 2024.07, Nashville, TN

Deployment Methodologies: What Technologies Fit Like a Glove

Josh Simer

AFL

[Fiber Connect 2024] 2024.07, Nashville, TN

Middle Mile Networks: Defining the Road Ahead

Will Miller

AFL

[IEEE Journal of Microwaves] 2024.07,

A Heterogeneously Integrated 256-Element 5G Phased Array: Design, Assembly, Test

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2: Fujikura Ltd., Japan

3: IBM, Bromont, QC, Canada

Fujikura

Applied Electronics R & D Center

[ISE Expo 2024] 2024.08, Dallas, TX

Revolutionizing FTTx Fiber Testing: Reducing Cost and Time With Innovative Solutions

Herman Fuller

AFL

[ISE Expo 2024] 2024.08, Dallas, TX

Understanding Build America, Buy America

Josh Simer

AFL

[ISE Expo 2024] 2024.08, Dallas, TX

Building to BEAD—The Practical Implementation of Broadband Delivery

Ryan O'Sullivan

AFL

[IEEE Open Journal of the Solid-State Circuits Society] 2024.08,

The problem of spurious emissions in 5G FR2 phased arrays, and a solution based on a proposed LO leakage cancelling mixer

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Applied Electronics R & D Center
Millimeter Wave Business Development
Group

[Autumn issue of New Breeze] 2024.08,

Recent Trends and Future Challenges concerning Multi-core-Fiber Connection and Research on Optical Cable

Katsuhiro Takenaga
Optical Communications Research
Department

[European Conference on Optical Communications] 2024.09, Germany

Single-Carrier 2.56 Tb/s (3-mode x 128-GBd x DP-16QAM) Transmission over a 53.7 km Few Mode Fiber

Nicolas Braig-Christophersen,¹
Ruben S. Luis,² Aymeric Arnould,¹
Robert Emmerich,¹ Fabian Chowanek,¹
Benjamin J. Puttnam,²
Kazuhiko Aikawa³ (光RDセ),
Juan Carlos Alvarado Zacarias,⁴
Rodrigo Amezcua-Correa,⁴
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Carsten Schmidt-Langhorst,¹
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- 3: Fujikura Ltd,
- 4: CREOL,
- 5: Optical Transmission Department, Nokia Bell Labs,
- 6: Institute of electrical and optical communications, Universität Stuttgart,
- 7: Technical University of Berlin

[50th European Conference on Optical Communications IEEE APWC2024] 2024.09, Germany Portugal

Polarity-Insensitive Core Number Management Method of Multi-core Fibres Using Asymmetric Markers
A Millimeter-wave Phased Array Antenna with Subarrays for Indoor Applications

Takuya Oda, Mayu Iizuka,
Yoshifumi Koike, Kentaro Ichii
Shailendra Kaushal and Ning Guan
Fujikura
Applied Electronics R & D Center

[2024 IEICE Society Conference] 2024.09, Japan

Development of new single-core fusion splicer

Takuma Ogane, Yusuke Yamamoto,
Hiroyuki Oka, Akihiro Tokumoto,
Sakanishi Sanga, Haruki Sakagami
Fujikura
Precision Equipment Division
Development Department

[2024 IEICE Society Conference] 2024.09, Japan

Investigation of Cross-Talk Behavior between Diagonal Cores in Loopback OTDR Method

Mayu Iizuka, Katsuhiro Takenaga,
Takuya Oda, Kentaro Ichii
Optical Communications Research
Department

[50th European Conference on Optical Communications] 2024.09, Germany

MPI Characteristics of Polarization-Maintaining Fibre Optimized For Short-Length and Twisted-Bending Storage Application

Satoshi Matsunaga,
Hiroto Niiyama, Shoichiro Matsuo
Fujikura
Special Fiber Products Department

[Implementation Society Roadmap Committee] 2024.09, Japan

Trends in AI/ML Systems and Optical Transceivers

Akito Nishimura
strategic center

[European Conference on Optical Communications] 2024.09, Germany

Experimental Demonstration of a Correlation-Avoidance CMA for Blind Space-Division Multiplexed MIMO Equalization

Pamir Oezsuna,¹ Aymeric Arnould,¹
Nicolas Braig-Christophersen¹
Emil Spoiden¹
Robert Emmerich,¹ Ruben S. Luis,²
Benjamin J. Puttnam,²
Kazuhiko Aikawa³ (光R&Dセ),
Carsten Schmidt-Langhorst,¹
Colja Schubert,¹ Ronald Freund,⁴
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3: Fujikura Ltd.,
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TU Berlin,
5: Fraunhofer Heinrich-Hertz-Institut,
University of Stuttgart
Optical Communications Research
Department

[The Applied Superconductivity Conference 2024 (ASC2024)] 2024.09, USA

Recent status of 2G HTS at Fujikura

Masanori Daibo, Yutaka Adachi,
Shinji Fujita, Shogo Muto, Yasuhiro Iijima
Fujikura
SC Promotion Office

[The Applied Superconductivity Conference 2024 (ASC2024)] 2024.09, USA

Evaluation of Bending Properties of REBCO Spiral Conductors

Shinji Fujita, Yuki Nakadai, Shogo Muto,
Naonori Nakamura, Masanori Daibo
Fujikura
SC Promotion Office

[The 34 Microelectronics Symposium] 2024.09, Japan

Development of three-dimensional wiring molding technology

Jun'ichi Torii
Fujikura
Membrane Development Group

[The 73 Annual Meeting of the Japanese Society for Analytical Chemistry] 2024.09, Japan

Simultaneous analysis of 72 elements by LC-ICP-MS
Shinya Ichikawa, Kazunori Onabe

[The 85 Annual Meeting of the Japan Society of Applied Physics] 2024.09, Japan

One-Dimensional position detection system using Cable type piezoelectric sensor

Yusuke Yamazoe,¹ Ushi Nakajima,¹
Takefuyu Ise,² Higashi Korenari,²
Daisuke Terashi²

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[IEEE Transactions on Applied Superconductivity] 2024.09,

Evaluation of Bending Properties of REBCO Spiral Conductors

Shinji Fujita, Yuki Nakadai, Shogo Muto,
Naonori Nakamura, Masanori Daibo
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SC Promotion Office

[Commemorative publication of the 400 LC Round-table Meeting] 2024.09,

LC technology expected in the industrial field

Shinya Ichikawa
Fujikura

[29th International Semiconductor Laser Conference] 2024.10, USA

High power high efficiency single emitter laser diode with high reliability operation

R. Morohashi, M. Uchiyama,
T. Kawakami, Y. Yamagata, Y. Terada

[The 2024 IWCS Cable & Connectivity Industry Forum] 2024.10, Providence, Rhode Island, USA.

Development of Indoor/Outdoor Cables with Robust Construction

Daisuke Hikima, Yusuke Tsujimoto,
Noritaka Ukiya, Toru Furukawa
Fujikura
Optical Cable Development Department

[The Second Public Study Meeting in Fiscal 2024] 2024.10, Japan

Development and application of three-dimensional wiring molding technology

Jun'ichi Torii
Fujikura
Membrane Development Group

[2024 JIEP Workshop] 2024.10, Japan

Development of three-dimensional wiring molding technology

Jun'ichi Torii
Fujikura
Membrane Development Group

[Thermal Management Workshop of the Electronics Packaging Society] 2024.10, Japan

Development of 3D Vapor Chambers for Servers

Harutoshi Hagino
Fujikura
Thermal Tech Development Group

[The 32 Meeting of the Space ICT Promotion Forum] 2024.10,

Optical Fiber Technology Trends and Applications to Satellite Communications

Kentaro ICHI (OC)

[Futurecom] 2024.10, Brazil

Innovative ribbon optic fiber cable technologies, SWR/WTC for Telecom and Data Center market

Daiki Takeda
Fujikura
Optical Cable Sales Department

[The 37 Symposium on Integrated Energy Engineering] 2024.10, Japan

Development of High-Temperature Superconducting Wires and Expectations for Fusion Development

Masanari Obo
1: Fujikura Ltd.
2: AFL Telecommunications Inc
Fujikura
SC Promotion Office

[Joint 22nd International Heat Pipe Conference and 16th International Heat Pipe Symposium] 2024.11, Thailand

Thermal Performance Evaluation of Tower Type Vapor Chamber

Harutoshi Hagino
Fujikura
Thermal Tech Development Group

[The 229 Annual Lecture of the Japan Packaging Technology Association] 2024.11, Japan

How to Cool Servers in Data Centers

Yuji Saito
fujikura
Electronic Components Development Department

[The 33 Photonic Device and Applied Technology Workshop] 2024.11, Japan

Trends in Optical Fiber Wiring Technology for AI Data Centers

Takuya Oda

[EXAT November Workshop: Extremely Advanced Transmission Technologies November Workshop] 2024.11,

High-density 4-core MCF

Shota Kajikawa, Kohei Ozaki,
Yasushi Koike, Takuya Oda,
Katsuhiro Takenaga, Kentaro Ichii

[2024 Liquid Chromatography Workshop] 2024.11, Japan

ICP detection

Shinya Ichikawa

[Information Technology Association Seminar] 2024.11,

Development trend of multi-core fiber and low loss coupling technology with silicon optical waveguide

Takuya Oda

[General meetings and lectures of the Japan Heat Pipe Association] 2024.12, Japan

Development of Vapor Chamber Lid

Yuji Saito
Fujikura
Thermal Tech Development Group

[The 38 Optical Communication Systems Symposium of the IEICE Optical Communication Systems Study Group] 2024.12, Japan

Typical Clad 180 μm Outer Diameter Clad 4 Core Multicore Fiber

Daiki Takehana, Shota Kajikawa,
Takuya Oda, Katsuhiro Takenaga,
Kentaro Ichii

[The 38 Optical Communication Systems Symposium] 2024.12, Japan

Measurement method capable of separating intrinsic loss and crosstalk loss of MCF using general-purpose OTDR

Naoto Norita,
Katsuhiro Takenaga,
Takuya Oda, Kentaro Ichii

[International Superconductivity Industry Summit (ISIS-31)] 2024.12, Japan

Recent Status of Rare-Earth-based HTS Tapes at Fujikura

Kunihito Kikuchi
Fujikura
SC Promotion Office

[37th International Symposium on Superconductivity(ISS 2024)] 2024.12, Japan

Mass Production of BMO-Doped REBCO Coated Conductor by IBAD & Hot-Wall PLD Approach

Yasuhiro Iijima, M. Ohsugi, K. Kakimoto,
S. Muto, W. Hirata, S. Fujita,
N. Nakamura, S. Hanyu and M. Daibo
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[The 38 Optical Communication Systems Symposium] 2024.12, Japan

160 μm Coated 4 Core MCF

Shota Kajikawa,
Katsuhiro Takenaga, Takuya Oda,
Kentaro Ichii

[IEEE/MTT-S International Microwave Symposium 2025] 2024.12,

3D Pose Estimation in the Near-Field of Sparse Arrays

Takuya Kawaguchi(Fujikura Ltd.),
Kazuki Shinotsuka(Fujikura Ltd.) and
Stefan Malterer
(Fujikura Technology Europe)
Fujikura

[Chiba Prefecture Analytical Chemistry Exchange] 2025.01, Japan

ICP-MS analysis in industrial fields

Shinya Ichikawa

[Photonics west 2025] 2025.01, USA

Multi-class object detection by an optical neural network implementation

Mamoru Otake, Shun Miura,
Hiroyuki Kusaka,
Takahiro Nanbara, Yuichiro Kunai,
Masahiro Kashiwagi
Fujikura
ARC

[EXAT Study Group February 2025 Study Group] 2025.02, Japan

Trends in Next-Generation Weakly-Coupled Multicore Fiber Technology

Takuya Oda

[OFT Workshop February 2025] 2025.02, Japan

Transition of Multicore Optical Connector Technology

Akito Nishimura
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Strategic Center

[Optical Communication Systems Study Group, IEICE (OCS) February Workshop] 2025.02, Japan

Typical Outer Diameter 16 Core MCF for 1,600 Gbps data center communications

Shota Kajikawa, Ryota Kajie,
Takuya Oda, Katsuhiro Takenaga,
Kentaro Ichii

[Applied Physics Express] 2025.02,

High-density 4-core MCF with 160- μm -coating for O-band IMDD and C-band WDM transmissions

Shota Kajikawa, Takuya Oda,
Katsuhiro Takenaga, Kentaro Ichii

[Nature Photonics] 2025.02,

Isotropic shrinkage of photopatterned vacancies enables nanoprecise 3D metastructures for visible-light optical computing

Dr Quansan Yang, Dr Gaojie Yang,
Mr Takahiro Nambara,
Mr Hiroyuki Kusaka, Mr Yuichiro Kunai,
Dr Alex Matlock, Dr Corban Swain,
Mr Brett Pryor, Dr Yannick Salamin,
Dr Daniel Oran,
Mr Hasindu Kariyawasam,
Mr Ramith Hettiarachchi,
Professor Dushan Wadduwage,
Professor Marin Soljačić,
Professor Peter So
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Core Technology Center ARC

[The 2025 Optical Fiber Communications Conference and Exhibition] 2025.03, USA

400GBASE-FR4 Transmission Test over 2 km 4-core Multiple Multicore Fibers for Intra-Datacenter Interconnects

Yoshifumi Koike,¹ Kohei Ozaki,¹
Hiroki Nakane,¹ Takuya Oda,¹
Naynesh Bansal,² Nikhil Angra,²
Takahiko Sabano,¹ Akito Nishimura,¹
Yumi Yamada¹

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[Optical Fiber Communication Conference 2025 (OFC2025)] 2025.03, USA

16-core MCF with standard-coating for 1,600 Gbps data center communication

Shota Kajikawa, Ryota Kaji,
Katsuhiro Takenaga, Takuya Oda, and
Kentaro Ichii
Optical Communications Research
Department

[Optical Fiber Communication Conference 2025 (OFC2025)] 2025.03, USA

Experimental Validation of Partitioned MIMO Equalizer with Low-Resolution Interface for Mitigation of Mode-Group Coupling in SDM Transmission over 3-Mode Fiber

Nicolas Braig-Christophersen,¹
Aymeric Arnould,¹ Robert Elschner,¹
Carsten Schmidt-Langhorst,¹
Ruben S. Luis,² Pamir Oezsuna,^{1,4}
Kallyan Das,¹
Juan L. Moreno Morrone,¹
Robert Emmerich,¹ Kazuhiko Aikawa,³
Hideaki Furukawa,²
Georg Rademacher,^{1,4}
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- 5: Technical University of Berlin, Optical Communications Research Department

[IEICE General Conference 2025] 2025.03, Japan

Realization of a High-Precision Calibration-Free 28 GHz Digital Phase Shifter with Folded Parts

Yusuke Uemichi, Ken Sakuma,
Yuma Okuyama, Ryo Takeda,
Akira Yamaguchi
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[IEICE General Conference 2025] 2025.03, Japan

RFIC for 5G millimeter-wave base station with high linear output (1) High linearity output 28 GHz band Beamformer IC

Tatsuo Kubo, Ken Sakuma,
Uemichi Yusuke, Yuichiro Yamaguchi,
Chihiro Kamidaki, Yuma Okuyama,
Ryo Takeda, Akira Yamaguchi
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[IEICE General Conference 2025] 2025.03, Japan

RFIC for 5G Millimeter-Wave Base Stations with High Linear Output Power (5) Compact 4 Multiplier for 28 GHz Band FCIC

Yuichiro Yamaguchi, Ryo Takeda,
Yuma Okuyama, Chihiro Kamidaki,
Masayuki Yoshiyama, Uemichi Yusuke,
Tatsuo Kubo, Akira Yamaguchi
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[IEICE General Conference 2025] 2025.03, Japan

RFIC (2) High Linear Output 28 GHz Band Transmit/Receive Front-End Circuit for 5G Millimeter-Wave Base Station with High Linear Output

Chihiro Kamidaki, Yuma Okuyama,
Ryo Takeda, Tatsuo Kubo,
Akira Yamaguchi
Fujikura
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[IEICE General Conference 2025] 2025.03, Japan

RFIC for 5G Millimeter-Wave Base Station with High Linear Output: (4) High Linear 28 GHz Band Frequency Conversion IC

Masayuki Yoshiyama, Chihiro Kamidaki,
Tatsuo Kubo, Ken Sakuma,
Yuichiro Yamaguchi, Yuma Okuyama,
Akira Yamaguchi
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[2025 IEICE General Meeting] 2025.03, Japan

Validation of XT Measurement of Four-Core MCF by Loopback OTDR Method

Ryota Kaji, Takuya Oda,
Katsuhiro Takenaga, Kentaro Ichii

[2025 IEICE General Meeting] 2025.03, Japan

Radiation resistant Er/Yb co-doped optical fiber for space optical communication

○ Ryo Nishimura,¹ Kentaro Ichii,¹
Shota Kimura,² Yosuke Hashimoto,²
Sakae Mizuta,² Jota Awano,²
KAZUYA SAITO³

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2: Japan Aerospace Exploration Agency

3: Toyota Institute of Technology

[CCA (Coated Conductor for Applications) 2025 Workshop] 2025.03, Switzerland

Stable Mass-Production by Hot-Wall PLD Approach for Uniform REBCO Wires and Magnet Applications

Yasuhiro Iijima, M. Ohsugi,
K. Kakimoto, S. Muto, W. Hirata,
S. Fujita, N. Nakamura, S. Hanyu and
M. Daibo
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SC Promotion Office

[Nature Communications] 2025.03,

Continuous real-time image processing by variable optical processor

Shun Miura, Mamoru Otake,
Takahiro Nambara, Hiroyuki Kusaka,
Yuichiro Kunai, Masahiro Kashiwagi
Fujikura
Core Technology Center ARC

[IEEE Open Journal of the Solid-State Circuits Society] 2025.04,

LO Generation for a 5G Phased Array Transceiver: A High HRR 21-27-GHz Frequency Quadrupler

Caglar Ozdag,¹ Member, IEEE,
Arun Paidimarri,¹ Senior Member,
IEEE, Masayuki Yoshiyama,²
Yuichiro Yamaguchi,² Yujiro Tojo,² and
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[Bulletin of Hikari Kyokai International Conference] 2025.04,

OFC 2025 Short Bulletin [Optical Fiber]

Daiki Takehana, Takuya Oda