

List of Other Research Papers Published Overseas

(From October 2021 to September 2022)

<p>[27th International Semiconductor Laser Conference] 2021.10, Germany Rear-Facet Failure Mode of High Power Laser Diode Operation with External Optical Feedback R. Morohashi, Y. Kasai, T. Kawakami, and Y. Yamagata</p> <p>[2021 Virtual Coated Conductors for Applications] 2021.10, Online Development of biaxially textured IBAD template films for REBCO coated conductor Y. Iijima</p> <p>[2021 Virtual Coated Conductors for Applications] 2021.10, Online BMO-Doped REBCO Coated Conductor Development for Field Magnets by Using Hot-wall PLD Process Y. Iijima, K. Kakimoto, S. Fujita, S. Hanyu, and M. Daibo</p> <p>[2021 International cable connectivity symposium] 2021.10, Online Indoor/Outdoor Cable with High-Flame Retardancy S. Kaneko, S. Sato, T. Sato, N. Ukiya, and K. Osato</p> <p>[2021 International cable connectivity symposium] 2021.10, Online 160-μm Coating Optical Fiber with 80-μm Cladding for 1728-Fiber Cable H. Sato, M. Miyata, A. Murata, Y. Tsujimoto, N. Yamashita, K. Hoshi, S. Matsuo, and K. Osato</p> <p>[2021 Virtual Coated Conductors for Applications] 2021.11, Online Robust REBCO Coil Structure for High Field Cryogen-free Superconducting Magnet S. Awaji,¹ T. Abe,¹ A. Badel,² K. Takahashi,¹ T. Okada,¹ S. Fujita,³ S. Muto,³ M. Daibo,³ Y. Iijima,³ T. Uto,⁴ S. Hanai,⁴ and S. Ioka⁴ 1: Tohoku University 2: G2ELab 3: Fujikura Ltd. 4: Toshiba Energy Systems & Solutions Corporation</p>	<p>[27th International Conference of Magnet Technology] 2021.11, Online (Japan) Low resistance soldered joint of REBCO coated conductors with novel Ag-dispersed structure M. Ohsugi,¹ T. Yoshida,¹ Y. Iijima,¹ K. Kakimoto,¹ W. Hirata,¹ S. Fujita,¹ M. Daibo,¹ M. Furuse,² and Y. Yoshida² 1: Fujikura Ltd. 2: AIST</p> <p>[27th International Conference of Magnet Technology] 2021.11, Online (Japan) Quench protection study of a large scale REBCO magnet with additional copper tapes S. Muto, S. Fujita, K. Tsuchiya, T. Takemoto, M. Ishii, Y. Iijima, and M. Daibo</p> <p>[27th International Conference of Magnet Technology] 2021.11, Online (Japan) Quench study on REBCO coil for HTS sextupole magnet X. Wang,¹ K. Tsuchiya,¹ S. Fujita,² S. Muto,² and K. Tsuchiya² 1: KEK 2: Fujikura Ltd.</p> <p>[27th International Conference of Magnet Technology] 2021.11, Online (Japan) Recent progress of RE-based High Temperature Superconductors at Fujikura M. Daibo</p> <p>[27th International Conference of Magnet Technology] 2021.11, Online (Japan) REBCO coil with robust behavior against local defects wound using two-tape bundle T. Abe,¹ A. Badel,² T. Okada,¹ S. Awaji,¹ S. Fujita,³ K. Tsuchiya,³ Y. Iijima,³ and M. Daibo³ 1: Tohoku University 2: G2ELab 3: Fujikura Ltd.</p> <p>[6th Asian Superconductivity School] 2021.11, Online (Japan) REBCO coated conductors Y. Iijima</p>
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[The 34th International Symposium on Superconductivity (ISS2021)] 2021.12, Online (Japan)

BMO-Doped REBCO Coated Conductor Development for Field Magnets with Novel Low Joint Resistance Approach by Using Hot-wall PLD Process

Y. Iijima,¹ M. Ohsugi,¹ K. Kakimoto,¹

W. Hirata,¹ S. Fujita,¹ M. Daibo,¹

M. Furuse,² and Y. Yoshida²

1: Fujikura Ltd.

2: AIST

[Applied Optics] 2021.12

Differential mode delay diagnostics for the LP modes traversing a few-mode fiber

N. Shibata,¹ K. Watanabe,¹ M. Ohashi,²

Y. Sasaki,³ and K. Aikawa³

1: College of Engineering, Nihon University

2: Osaka Prefecture University

3: Fujikura Ltd.

[Cryogenics] 2022.1

Splice joint resistances of commercial REBCO-coated conductors and their reduction

M. Furuse,¹ S. Fuchino,¹ Y. Yoshida,¹ and

Y. Iijima²

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[Superconductor Science and Technology] 2022.1

Trapping a magnetic field of 17.89 T in stacked coated conductors by suppression of flux jumps

M. Suyama,¹ S. Pyon,¹ Y. Iijima,² S. Awaji,³ and T. Tamegai¹

1: University of Tokyo

2: Fujikura Ltd.

3: Tohoku University

[The Optical Fiber Communication Conference and Exhibition 2022] 2022.3, USA

Investigation of Wideband Distributed Raman Amplification in a Few-Mode Fiber Link

G. Rademacher,¹ B. J. Puttnam,¹

R. S. Luis,¹ J. Carlos,¹ A. Zacarias,²

R. Amezcu-Correa,² K. Aikawa,³

Y. Awaji,¹ and H. Furukawa¹

1: NICT

2: CREOL, University of Central Florida

3: Fujikura Ltd.

[The Optical Fiber Communication Conference and Exhibition 2022] 2022.3, Online (USA)

Side-view Rotational Alignment Method for Trench-assisted 4-core Fibers

M. Ohzeki, Y. Sasaki, K. Takenaga,

K. Ichii, and K. Aikawa

[Journal of Lightwave Technology] 2022.3

Optical-Fiber Cable Employing 200- μ m-Coated Four-Core Multicore Fibers

Y. Sasaki, R. Fukumoto, K. Takenaga,

S. Shimizu, and K. Aikawa

[Journal of Lightwave Technology] 2022.3

1,728-Fiber Cable with 12-Fiber Ribbons Comprising 160- μ m Coating Fiber with 80- μ m Cladding

S. Matsuo, K. Yamashiro, Y. Tsujimoto,

M. Miyata, A. Murata, T. Ishikawa,

T. Nakajima, and K. Osato

[IEEE Transactions on Applied Superconductivity] 2022.6

AC loss measurements in an HTS coil wound using two-ply bundle conductor

K. Kajikawa,¹ Y. Fujiwara,¹ M. Miezaki,¹

S. Awaji,² A. Badel,² K. Takahashi,²

T. Okada,² T. Abe,² S. Fujita,³ S. Muto,³

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3: Fujikura Ltd.

[27th OptoElectronics and Communications Conference/International Conference on Photonics in Switching and Computing 2022] 2022.7, Japan

Multi-Core Fiber Link with Its Polarity Management in View

T. Oda, O. Kikuchi, K. Takenaga, and

K. Ichii

[27th OptoElectronics and Communications Conference/International Conference on Photonics in Switching and Computing 2022] 2022.7, Japan

Estimating Crosstalk Between Diagonal Cores in Four-Core Fibers with Square Lattice Structure

M. Nakagawa, M. Ohzeki, Y. Sasaki,

K. Takenaga, and K. Ichii

[27th OptoElectronics and Communications Conference/International Conference on Photonics in Switching and Computing 2022] 2022.7, Japan

Investigation of Crosstalk Dependence on Cladding Diameter in Heterogeneous Multi-core Fibers by Considering Polarization-mode Coupling Effects

G. Ocampo,¹ Y. Amma,² and K. Saitoh¹

1: Hokkaido University

2: Fujikura Ltd.

[27th OptoElectronics and Communications Conference/International Conference on Photonics in Switching and Computing 2022] 2022.7, Japan

Experimental Investigation of Nonlinear Signal Distortions in Multi-Span FMF Transmission

G. Rademacher,¹ B. J. Puttnam,¹

R. S. Luis,¹ K. Aikawa,² Y. Awaji,¹ and

H. Furukawa¹

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[27th OptoElectronics and Communications Conference/International Conference on Photonics in Switching and Computing 2022] 2022.7, Japan

Ultra-high-density optical cable with advanced optical fibers

S. Matsuo, K. Yamashiro, Y. Tsujimoto,

N. Yamashita, O. Mukai, Y. Sasaki, and

K. Takenaga

[INTERNATIONAL CONFERENCE ON MATERIALS DESIGN AND APPLICATIONS 2022] 2022.7, Online (Portugal)

Shrinkage and viscoelastic properties of UV-curable adhesives for precise positioning during curing process

A. Takahashi, Y. Sekiguchi, and C. Sato

[EFATS2022 (2nd International Conference On Emissions Free Air Transport Through Superconductivity)] 2022.8, Online (UK)

Recent status of Fujikura's 2G HTS wire

S. Hanyu, S. Fujita, Y. Adachi,

K. Kakimoto, Y. Iijima, and M. Daibo

[IEICE Electronics Express] 2022.8

Behavior of intercore crosstalk in square-layout uncoupled four-core fibers

M. Koshiba, Y. Kokubun, M. Nakagawa,

M. Ohzeki, and K. Takenaga

[The European Conference on Optical Communication 2022] 2022.9, Switzerland

Novel Inter-core Crosstalk Measurement Method Using Loopback and Bidirectional OTDR Technique

M. Nakagawa, M. Ohzeki, K. Takenaga, and K. Ichii

[29th International Superconductivity Industry Summit (ISIS-29)] 2022.9, Online (UK)

Recent status of 2G HTS tapes at Fujikura

M. Daibo

[IEEE Transactions on Applied Superconductivity] 2022.9

Low resistance soldered joint of REBCO coated conductors with novel Ag-dispersed structure

M. Ohsugi,¹ T. Yoshida,¹ Y. Iijima,¹

K. Kakimoto,¹ W. Hirata,¹ S. Fujita,¹

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[IEEE Transactions on Applied Superconductivity] 2022.9

Quench protection study of a large scale REBCO magnet with additional copper tapes

S. Muto, S. Fujita, K. Tsuchiya,

T. Takemoto, M. Ishii, Y. Iijima, and

M. Daibo

[IEEE Transactions on Applied Superconductivity] 2022.9

Quench study on REBCO coil for HTS sextupole magnet

X. Wang,¹ K. Tsuchiya,¹ S. Fujita,²

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[IEEE Transactions on Applied Superconductivity] 2022.9

REBCO coil with robust behavior against local defects wound using two-tape bundle

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S. Fujita,³ K. Tsuchiya,³ Y. Iijima,³ and

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