

# Kunimasa Saitoh

## List of Publications by Year in descending order

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Version: 2024-02-01

386  
papers

11,225  
citations

30047

54  
h-index

36008

97  
g-index

387  
all docs

387  
docs citations

387  
times ranked

3799  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Analytical expression for mode-coupling coefficient between non-identical step-index cores and its application to multi-core fiber design within 125- $\mu\text{m}$ cladding diameter. Optics Communications, 2022, 506, 127552.  | 1.0 | 3         |
| 2  | Multi-Core Fiber Technology for SDM: Coupling Mechanisms and Design. Journal of Lightwave Technology, 2022, 40, 1527-1543.  | 2.7 | 20        |
| 3  | Direct-binary-search algorithm for fabrication-tolerant photonic-crystal-like subwavelength structures and its application to a four-mode waveguide crossing in 2 $\mu\text{m}$ waveband. Japanese Journal of Applied Physics, 2022, 61, 042003.                        | 0.8 | 5         |
| 4  | A Novel Algorithm of Wavefront-Matching Method for Stable and Efficient Design of Si Waveguides. IEEE Photonics Technology Letters, 2022, 34, 359-362.  | 1.3 | 0         |
| 5  | Comparison of Scalar and Vector WFM Method Through the Design of High- $\beta$ Waveguide Lenses. IEEE Photonics Technology Letters, 2022, 34, 533-536.  | 1.3 | 0         |
| 6  | Arbitrary higher-order optical spatial state generation by using spontaneously broken degeneracy modes in helically twisted ring-core hole assisted fibers. Optics Express, 2022, 30, 24565.  | 1.7 | 1         |
| 7  | Low-Loss and Small $2 \times 4$ Multiplexers Based on $2 \times 2$ and $2 \times 1$ Mach-Zehnder Interferometers With On-Chip Polarization Multiplexing for 400GbE. Journal of Lightwave Technology, 2021, 39, 193-200.   | 2.7 | 12        |
| 8  | A Novel Core Allocation in Heterogeneous Step-Index Multi-Core Fibers With Standard Cladding Diameter. Journal of Lightwave Technology, 2021, 39, 7231-7237.  | 2.7 | 6         |
| 9  | Tunable broadband mode power dividers based on a wavelength-insensitive coupler using the thermo-optic effect for flexible modal power adjustment in a mode-division multiplexing network. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 946. | 0.9 | 1         |
| 10 | Bayesian direct-binary-search algorithm for the efficient design of mosaic-based power splitters. OSA Continuum, 2021, 4, 1258.   | 1.8 | 16        |
| 11 | High-tolerance CWDM4 wavelength multiplexer based on $2 \times 2/2 \times 1$ MZ filters with polarization multiplexing. IEICE Electronics Express, 2021, 18, 20210110-20210110.   | 0.3 | 1         |
| 12 | Six-mode scrambler based on cascaded side-wall grating waveguides. Japanese Journal of Applied Physics, 2021, 60, 062002.   | 0.8 | 4         |
| 13 | Broadband silicon four-mode multi/demultiplexer designed by a wavefront matching method. Optics Express, 2021, 29, 27322.   | 1.7 | 5         |
| 14 | Arbitrary polarization and orbital angular momentum generation based on spontaneously broken degeneracy in helically twisted ring-core photonic crystal fibers. Optics Express, 2021, 29, 31689.  | 1.7 | 6         |
| 15 | Modal amplitude and phase estimation of multimode near field patterns based on artificial neural network with the help of grey-wolf-optimizer. Optical Fiber Technology, 2021, 67, 102720.  | 1.4 | 6         |
| 16 | Experimental Demonstration of Broadband Silicon 4-Mode (de)Multiplexer Designed by Wavefront-Matching Method. , 2021, , .   |     | 0         |
| 17 | Switchable Mode Converter for Four-Mode MDM System Assisted by Passive Mode Controlling Device Designed by Wavefront Matching Method. , 2021, , .   |     | 0         |
| 18 | Design of Resonant-Characteristics-Monitorable Si Wavelength Filter Using Face-To-Face Loop Mirrors For Heterogeneous Integrated Tunable Lasers. , 2021, , .  |     | 1         |

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|----|--|-----|-----------|
| 19 | Step index 8-core fiber with 125- $\mu\text{m}$ cladding diameter for O-band use. , 2020, , .  |     | 0         |
| 20 | Ultrasmall two-mode dividers based on mosaic structure designed by direct-binary-search algorithm aided by artificial neural network. , 2020, , .  |     | 1         |
| 21 | Control of Group Delay Spread in Randomly-Coupled Multicore Fibers. , 2020, , .  |     | 2         |
| 22 | Spatial Density and Splicing Characteristic Optimized Few-Mode Multi-Core Fiber. Journal of Lightwave Technology, 2020, 38, 4490-4496.   | 2.7 | 21        |
| 23 | High Spatial Density 6-Mode 7-Core Fiber Amplifier for L-Band Operation. Journal of Lightwave Technology, 2020, 38, 2938-2943.   | 2.7 | 24        |
| 24 | Design of small mode-dependent-loss scrambling-type mode (de)multiplexer based on PLC. Optics Express, 2020, 28, 9653.   | 1.7 | 8         |
| 25 | Broadband and compact silicon mode converter designed using a wavefront matching method. Optics Express, 2020, 28, 38196.  | 1.7 | 10        |
| 26 | Geometric-phase-induced arbitrary polarization and orbital angular momentum generation in helically twisted birefringent photonic crystal fiber. Photonics Research, 2020, 8, 1278.              | 3.4 | 21        |
| 27 | Broadband Design of Silicon Photonics Four-Mode (de)Multiplexer by Wavefront Matching Method. , 2020, , .  |     | 0         |
| 28 | Experimental Demonstration of Broadband Silicon Mode Converter Designed by Wavefront-Matching Method. , 2020, , .  |     | 0         |
| 29 | Wavefront-matching-method-designed six-mode-exchanger based on grating-like waveguide on silica-PLC platform. , 2020, , .  |     | 2         |
| 30 | Epitaxial Design of GeSn Quantum Wells for Optoelectronic Applications. , 2019, , .  |     | 0         |
| 31 | The Effect of Core Offset on the Mode Converting Characteristics in Twisted Single Mode Fibers. Journal of Lightwave Technology, 2019, 37, 5479-5485.  | 2.7 | 14        |
| 32 | Iterative Unreplicated Parallel Interference Canceler for MDL-Tolerant Dense SDM (12-Core $\rightarrow$ 3-Mode) Transmission Over 3000 km. Journal of Lightwave Technology, 2019, 37, 1560-1569. | 2.7 | 14        |
| 33 | Ultra-Robust Design of Mode (De)Multiplexer Based on Asymmetrical Directional Coupler Using Wire and One-Side Rib Waveguides. , 2019, , .  |     | 1         |
| 34 | 1.2 Pb/s Throughput Transmission Using a 160 $\mu\text{m}$ Cladding, 4-Core, 3-Mode Fiber. Journal of Lightwave Technology, 2019, 37, 1798-1804.   | 2.7 | 45        |
| 35 | CMOS-compatible Si-wire polarization beam splitter based on wavelength-insensitive coupler. IEICE Electronics Express, 2019, 16, 20181126-20181126.  | 0.3 | 0         |
| 36 | A Design of Low MDL Scrambling-type PLC 6-mode Multiplexer. , 2019, , .  |     | 0         |

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|----|---|-----|-----------|
| 37 | 3-Mode PLC-Based Mode Dependent Loss Equalizer in MDM Transmission. , 2019, , .   |     | 2         |
| 38 | Nonreciprocity Enhancement of Graphene-on-Si Waveguide using One-Dimensional Photonic Crystal. , 2019, , .  |     | 0         |
| 39 | A Broadband PLC-type Mode Converter Designed by Wavefront Matching Method. , 2019, , .  |     | 0         |
| 40 | Large Capacity Optical Communications by Optical Fibers for Space Division Multiplexing. IEICE Communications Society Magazine, 2019, 13, 166-176.  | 0.0 | 1         |
| 41 | Mode-Dependent Crosstalk Penalty in Few-Mode Multi-Core Fiber Transmission. , 2019, , .   |     | 2         |
| 42 | Fabrication of Ultrasmall Silicon Waveguide Lenses Designed by Wavefront-Matching Method. , 2019, , .   |     | 0         |
| 43 | Fabrication of Ultrasmall Silicon Waveguide Lenses Designed by Wavefront-Matching Method. , 2019, , .   |     | 1         |
| 44 | Cladding Diameter Dependence of Inter-Core Crosstalk in Heterogeneous Multicore Fibers. , 2019, , .   |     | 2         |
| 45 | All-Optical Diode Suppressing Broadband Backward Transmission Using Single- and Four-Port Photonic Crystal Cavities. IEEE Photonics Journal, 2019, 11, 1-14.  | 1.0 | 6         |
| 46 | A proposal of Mach-Zehnder mode/wavelength multi/demultiplexer based on Si/silica hybrid PLC platform. Optics Communications, 2019, 433, 168-172.   | 1.0 | 4         |
| 47 | DMD-Unmanaged Long-Haul SDM Transmission Over 2500-km 12-Core Å— 3-Mode MC-FMF and 6300-km 3-Mode FMF Employing Intermodal Interference Canceling Technique. Journal of Lightwave Technology, 2019, 37, 138-147.  | 2.7 | 22        |
| 48 | A novel Si four-wavelength multiplexer for 100/400GbE using higher-order mode composed of (a)symmetric directional couplers and TE <sub>1</sub> -TM <sub>0</sub> mode converter. Optics Express, 2019, 27, 36286. | 1.7 | 12        |
| 49 | First Experimental Demonstration of Wavefront-Matching-Method-Designed Silicon Mode Converters. , 2019, , .   |     | 1         |
| 50 | A broadband mode divider with arbitrary branching ratio based on wavelength-insensitive coupler. , 2019, , .  |     | 0         |
| 51 | Microscopic gain analysis of modulation-doped GeSn/SiGeSn quantum wells: epitaxial design toward high-temperature lasing. Optics Express, 2019, 27, 2457.   | 1.7 | 3         |
| 52 | Optimum index profile of few-mode coupled multicore fibers for reducing the group delay spread. Optics Express, 2019, 27, 16281.  | 1.7 | 2         |
| 53 | Scrambling-Type Three-Mode PLC Multiplexer Based on Cascaded Y-Branch Waveguide With Integrated Mode Rotator. Journal of Lightwave Technology, 2018, 36, 1985-1992.   | 2.7 | 26        |
| 54 | Six-Mode Seven-Core Fiber for Repeated Dense Space-Division Multiplexing Transmission. Journal of Lightwave Technology, 2018, 36, 1226-1232.  | 2.7 | 52        |

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|----|---|-----|-----------|
| 55 | PLC-based mode controlling devices for mode-division-multiplexing. , 2018, , .  |     | 0         |
| 56 | Suppression of Group-Delay Spread in Coupled Two-LP-Mode Four-Core Fiber. , 2018, , .   |     | 1         |
| 57 | Development of the Wavefront Matching Method Based on the 3-D Finite-Element Method and Its Application to Si-wire Mode Converters. Journal of Lightwave Technology, 2018, 36, 3652-3659.                                 | 2.7 | 14        |
| 58 | Dependence of Cladding Diameter on Inter-core Crosstalk in Heterogeneous Multi-core Fibers. , 2018, , .   |     | 5         |
| 59 | Proposal of Si Four-Wavelength Multiplexer Using Higher-Order Mode for 100GbE. , 2018, , .  |     | 1         |
| 60 | Microscopic Gain Analysis of Modulation-Doped GeSn Quantum Well: Epitaxial Design Toward High-Temperature Lasing. , 2018, , .   |     | 0         |
| 61 | 1.2 Pb/s Transmission Over a $160\ \mu\text{m}$ Cladding, 4-Core, 3-Mode Fiber, Using 368 $\text{C}+\text{m}\text{L}$ band PDM-256-QAM Channels. , 2018, , .  |     | 0         |
| 62 | Errata to "Full-Vector Finite-Element Beam Propagation Method for Helicoidal Waveguides and its Application to Twisted Photonic Crystal Fibers" [Jul 17 2894-2901]. Journal of Lightwave Technology, 2018, 36, 4211-4212. | 2.7 | 5         |
| 63 | Novel All-Optical Diode Based on Single-Port and Four-Port Photonic Crystal Cavities. , 2018, , .   |     | 1         |
| 64 | GeSn/SiGeSn Multiple-Quantum-Well Electroabsorption Modulator With Taper Coupler for Mid-Infrared Ge-on-Si Platform. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-8.                               | 1.9 | 24        |
| 65 | Beam propagation analysis of optical activity and circular dichroism in helically twisted photonic crystal fiber. Japanese Journal of Applied Physics, 2018, 57, 08PF06.  | 0.8 | 7         |
| 66 | Si-based Mach-Zehnder wavelength/mode multi/demultiplexer for a WDM/MDM transmission system. Optics Express, 2018, 26, 15211.   | 1.7 | 22        |
| 67 | A Review of PLC-Based Broadband Two-Mode Multi/Demultiplexer Designed by Wavefront Matching Method. IEICE Transactions on Electronics, 2018, E101.C, 518-526.   | 0.3 | 2         |
| 68 | Off-axis core transmission characteristics of helically twisted photonic crystal fibers. Optics Letters, 2018, 43, 4935.  | 1.7 | 17        |
| 69 | Non-circular multi-core fibers for super-dense SDM. IEICE Electronics Express, 2018, 15, 20180776-20180776.   | 0.3 | 1         |
| 70 | A Metal-Assisted Silicon Slot Waveguide for Highly Sensitive Gas Detection. IEEE Photonics Journal, 2017, 9, 1-9.   | 1.0 | 15        |
| 71 | Design and Fabrication of Broadband PLC-Based Two-Mode Multi/Demultiplexer Using a Wavefront Matching Method. Journal of Lightwave Technology, 2017, 35, 2252-2258.   | 2.7 | 32        |
| 72 | Low-Loss and Low-DMD 6-Mode 19-Core Fiber With Cladding Diameter of Less Than $250\ \mu\text{m}$ . Journal of Lightwave Technology, 2017, 35, 443-449.  | 2.7 | 51        |

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|----|---|-----|-----------|
| 73 | Group delay spread analysis of coupled-multicore fibers: A comparison between weak and tight bending conditions. Optics Communications, 2017, 393, 232-237.   | 1.0 | 9         |
| 74 | Wavefront Matching Method Based on Full-Vector Finite-Element Beam Propagation Method for Polarization Control Devices. Journal of Lightwave Technology, 2017, 35, 2840-2845.                                     | 2.7 | 16        |
| 75 | PLC-Based LP <sub>11</sub> Mode Rotator With Curved Trench Structure Devised From Wavefront Matching Method. IEEE Photonics Technology Letters, 2017, 29, 1063-1066.  | 1.3 | 5         |
| 76 | Long-Haul Dense Space-Division Multiplexed Transmission Over Low-Crosstalk Heterogeneous 32-Core Transmission Line Using a Partial Recirculating Loop System. Journal of Lightwave Technology, 2017, 35, 488-498. | 2.7 | 49        |
| 77 | Full-Vector Finite-Element Beam Propagation Method for Helicoidal Waveguides and Its Application to Twisted Photonic Crystal Fibers. Journal of Lightwave Technology, 2017, 35, 2894-2901.                        | 2.7 | 18        |
| 78 | Few-mode multicore fibers for long-haul transmission line. Optical Fiber Technology, 2017, 35, 19-27.   | 1.4 | 60        |
| 79 | PLC-based mode multi/demultiplexers for mode division multiplexing. Optical Fiber Technology, 2017, 35, 80-92.  | 1.4 | 54        |
| 80 | Group Delay Spread Analysis of Few-Mode, Coupled 3-Core Fibres: Optimum Index Profile and Maximum Transmission Distance for Strong Coupling Regime. , 2017, , .   |     | 1         |
| 81 | A compact and low-loss GeSn electroabsorption modulator using vertical multimode interference for mid-infrared Ge-on-Si platform. , 2017, , .   |     | 1         |
| 82 | A proposal of Mach-Zehnder mode multi/demultiplexer for WDM/MDM optical transmission system. , 2017, , .  |     | 0         |
| 83 | Material analysis of GeSn/SiGeSn quantum wells based on many-body theory. , 2017, , .   |     | 0         |
| 84 | Development of fully three-dimensional wavefront matching method and its application to the design of ultrasmall Si mode converters. , 2017, , .  |     | 1         |
| 85 | Coupled W-type four-core fiber with low differential mode group delay for C+L band. , 2017, , .   |     | 0         |
| 86 | Crosstalk Analysis of Heterogeneous Multicore Fibers Using Coupled-Mode Theory. IEEE Photonics Journal, 2017, 9, 1-8.   | 1.0 | 22        |
| 87 | Coiling Size Dependence of Group Delay Spread in Coupled Multicore Fibers Without Intentional Twisting. Journal of Lightwave Technology, 2017, 35, 4559-4566.   | 2.7 | 9         |
| 88 | Beam propagation analysis of optical activity and circular dichroism in helically twisted photonic crystal fiber. , 2017, , .   |     | 1         |
| 89 | Proposal of compact three-mode exchanger based on symmetric and asymmetric directional couplers with integrated mode rotator. , 2017, , .   |     | 0         |
| 90 | Multicore fiber-based 5-mode multiplexer/demultiplexer. , 2017, , .   |     | 0         |

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|-----|---|-----|-----------|
| 91  | Design of a high-forward-transmission all-optical diode based on cascaded side-coupled photonic crystal cavities. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2017, 34, 2493. | 0.9 | 6         |
| 92  | Design and optimization of 32-core rod/trench assisted square-lattice structured single-mode multi-core fiber. <i>Optics Express</i> , 2017, 25, 5119.  | 1.7 | 30        |
| 93  | Optimal design of 4LP-mode multicore fibers for high spatial multiplicity. <i>Optics Express</i> , 2017, 25, 5697.  | 1.7 | 20        |
| 94  | Low-loss, compact, and fabrication-tolerant Si-wire 90° waveguide bend using clothoid and normal curves for large scale photonic integrated circuits. <i>Optics Express</i> , 2017, 25, 9150.           | 1.7 | 68        |
| 95  | A photonic-plasmonic mode converter using mode-coupling-based polarization rotation for metal-inserted silicon platform. <i>IEICE Electronics Express</i> , 2017, 14, 20160989-20160989.                | 0.3 | 2         |
| 96  | One chip, PLC three-mode exchanger based on symmetric and asymmetric directional couplers with integrated mode rotator. , 2017, , .   |     | 4         |
| 97  | Ultimately low-loss and compact Si wire 90° waveguide bend composed of clothoid and normal curves for dense optical interconnect PICs. , 2017, , .  |     | 0         |
| 98  | Scrambling-type three-mode multiplexer based on cascaded Y-branch waveguide with integrated mode rotator on PLC platform. , 2017, , .   |     | 3         |
| 99  | Design and Analysis of Weakly- and Strongly-coupled Multicore Fibers. , 2017, , .   |     | 2         |
| 100 | Highly efficient GeSn electroabsorption modulator using higher-order-mode for mid-infrared Ge-on-Si platform. , 2017, , .   |     | 0         |
| 101 | Design and optimization of 3-mode—12-core dual-ring structured few-mode multi-core fiber. <i>Optics Communications</i> , 2016, 381, 30-36.  | 1.0 | 8         |
| 102 | A compact and low-loss PLC-based LP <sub>11a</sub> /LP <sub>11b</sub> mode rotator with curved trench structure. , 2016, , .  |     | 1         |
| 103 | A simple design method of reflection-suppressed photonic crystal cavity with asymmetric waveguides. , 2016, , .   |     | 0         |
| 104 | Optimum design of 4LP-mode multicore fibers with low differential mode delay for high spatial multiplicity. , 2016, , .   |     | 0         |
| 105 | Ultrasmall silicon mode converters designed by wavefront matching method developed for waveguide discontinuity problem. , 2016, , .   |     | 3         |
| 106 | Group delay spread analysis of strongly coupled 3-core fibers: an effect of bending and twisting. <i>Optics Express</i> , 2016, 24, 9583.   | 1.7 | 18        |
| 107 | Design of Homogeneous Trench-Assisted Multi-Core Fibers Based on Analytical Model. <i>Journal of Lightwave Technology</i> , 2016, 34, 4406-4416.  | 2.7 | 27        |
| 108 | Investigation on core selection approach for heterogeneous trench-assisted multi-core fiber. , 2016, , .  |     | 0         |

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|-----|--|-----|-----------|
| 109 | Theoretical Investigation of Six-Mode Multi/Demultiplexer Based on Fused-Type Multicore Fiber Coupler. IEEE Photonics Journal, 2016, 8, 1-8.   | 1.0 | 4         |
| 110 | An Efficient Core Selection Method for Heterogeneous Trench-Assisted Multi-Core Fiber. IEEE Photonics Technology Letters, 2016, 28, 810-813.   | 1.3 | 15        |
| 111 | Wavelength-Dependence of Inter-Core Crosstalk in Homogeneous Multi-Core Fibers. IEEE Photonics Technology Letters, 2016, 28, 27-30.  | 1.3 | 48        |
| 112 | Dense SDM (12-Core x 3-Mode) Transmission Over 527 km With 33.2-ns Mode-Dispersion Employing Low-Complexity Parallel MIMO Frequency-Domain Equalization. Journal of Lightwave Technology, 2016, 34, 196-204. | 2.7 | 51        |
| 113 | Multicore Fiber Technology. Journal of Lightwave Technology, 2016, 34, 55-66.  | 2.7 | 337       |
| 114 | High-Spatial-Multiplicity Multicore Fibers for Future Dense Space-Division-Multiplexing Systems. Journal of Lightwave Technology, 2016, 34, 1464-1475.   | 2.7 | 104       |
| 115 | Design of a reflection-suppressed all-optical diode based on asymmetric L-shaped nonlinear photonic crystal cavity. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 54.              | 0.9 | 8         |
| 116 | Large-Mode-Area All-Solid Photonic Bandgap Fibers for the Mitigation of Optical Nonlinearities. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 316-322.                                   | 1.9 | 26        |
| 117 | Heterogeneous 32-core fiber with square-lattice layout for high-density transmissions. , 2016, , .   |     | 2         |
| 118 | Grating Inscription to Few-Mode Multi-Core Optical Fiber. , 2016, , .  |     | 0         |
| 119 | Demonstration of PLC-based six-mode multiplexer for mode division multiplexing transmission. , 2015, , .   |     | 12        |
| 120 | Large-Mode-Area All-Solid Photonic Bandgap Fibers for High Power Fiber Lasers. , 2015, , .   |     | 0         |
| 121 | High-count Multi-Core Fibers for Space-Division Multiplexing with Propagation-Direction Interleaving. , 2015, , .  |     | 18        |
| 122 | Enhancement of Optical Nonlinearity in Coupled Resonator Optical Waveguide Based on Slotted 1-D Photonic Crystal Cavity. IEEE Photonics Journal, 2015, 7, 1-8.   | 1.0 | 4         |
| 123 | Few-mode multi-core fibre with highest core multiplicity factor. , 2015, , .   |     | 25        |
| 124 | High-spatial-multiplicity multi-core fibres for future dense space-division-multiplexing system. , 2015, , .   |     | 10        |
| 125 | Design method of heterogeneous trench-assisted graded-index few-mode multi-core fiber with low differential mode delay. , 2015, , .  |     | 2         |
| 126 | Quantum-Confined Stark Effect Analysis of GeSn/SiGeSn Quantum Wells for Mid-Infrared Si-Based Electroabsorption Devices Based on Many-Body Theory. IEEE Journal of Quantum Electronics, 2015, 51, 1-7.       | 1.0 | 7         |



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|-----|--|-----|-----------|
| 127 | Few-Mode Multicore Fiber With 36 Spatial Modes (Three Modes (LP <sub>01</sub> , LP <sub>11a</sub> , LP <sub>1f</sub> ))  | 2.7 | 82        |
| 128 | Polarizing 50- $\mu$ m core Yb-doped photonic bandgap fiber. Proceedings of SPIE, 2015, , .  | 0.8 | 2         |
| 129 | Large mode area Yb-doped photonic bandgap fiber lasers. , 2015, , .  |     | 0         |
| 130 | Material Gain Analysis of GeSn/SiGeSn Quantum Wells for Mid-Infrared Si-Based Light Sources Based on Many-Body Theory. IEEE Journal of Quantum Electronics, 2015, 51, 1-8.   | 1.0 | 12        |
| 131 | Multicore fiber-based mode multiplexer/demultiplexer. Proceedings of SPIE, 2015, , .   | 0.8 | 3         |
| 132 | Polarizing ytterbium-doped all-solid photonic bandgap fiber with $\sim 1150 \mu\text{m}^2$ effective mode area. Optics Express, 2015, 23, 4307.  | 1.7 | 14        |
| 133 | Heterogeneous trench-assisted few-mode multi-core fiber with graded-index profile and square-lattice layout for low differential mode delay. Optics Express, 2015, 23, 17783.  | 1.7 | 11        |
| 134 | PLC-Based Four-Mode Multi/Demultiplexer With LP <sub>11</sub> Mode Rotator on One Chip. Journal of Lightwave Technology, 2015, 33, 1161-1165.  | 2.7 | 21        |
| 135 | Three-Dimensional Finite-Element Time-Domain Beam Propagation Method and Its Application to 1-D Photonic Crystal-Coupled Resonator Optical Waveguide. Journal of Lightwave Technology, 2015, 33, 3836-3842.            | 2.7 | 5         |
| 136 | A rigorous definition of nonlinear parameter $\hat{\chi}^3$ and effective area $A_{\text{eff}}$ for photonic crystal optical waveguides. Journal of the Optical Society of America B: Optical Physics, 2015, 32, 1245. | 0.9 | 8         |
| 137 | Graded-Index Few-Mode Multi-Core Fiber with Dual-Ring Structure. , 2015, , .   |     | 1         |
| 138 | Comparison of Homogeneous and Heterogeneous 2LP-mode Multicore Fibers for High Spatial Multiplicity. , 2015, , .   |     | 0         |
| 139 | Microscopic Analysis of Quantum-Confined Stark Effect of Group IV Quantum Wells for Mid-Infrared Si-Based Electroabsorption Modulators. , 2015, , .  |     | 0         |
| 140 | Yb-Doped Photonic Bandgap Fiber Lasers with Record Core Diameter. , 2014, , .  |     | 0         |
| 141 | Few-mode multicore fibre with 36 spatial modes (Three modes (LP <sub>01</sub> , LP <sub>11a</sub> , LP <sub>1f</sub> ))  | 2.7 | 82        |
| 142 | PLC-type LP <sub>11</sub> mode rotator with single-trench waveguide for mode-division multiplexing transmission. , 2014, , .   |     | 5         |
| 143 | Ultra-Broadband Silicon-Wire Polarization Beam Combiner/Splitter Based on a Wavelength Insensitive Coupler With a Point-Symmetrical Configuration. IEEE Photonics Journal, 2014, 6, 1-8.                               | 1.0 | 9         |
| 144 | Large-Mode-Area Yb-Doped Photonic Bandgap Fiber Laser. , 2014, , .   |     | 0         |

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|-----|--|-----|-----------|
| 145 | Multicore Fiber for Space Division Multiplexing. , 2014, , .   |     | 2         |
| 146 | A New and Simple Method for Crosstalk Estimation in Homogeneous Trench-Assisted Multi-Core Fibers. , 2014, , .   |     | 6         |
| 147 | Ytterbium-doped large-mode-area all-solid photonic bandgap fiber lasers. Optics Express, 2014, 22, 13962.  | 1.7 | 77        |
| 148 | PLC-based LP <sub>11</sub> mode rotator for mode-division multiplexing transmission. Optics Express, 2014, 22, 19117.  | 1.7 | 43        |
| 149 | Simple analytical expression for crosstalk estimation in homogeneous trench-assisted multi-core fibers. Optics Express, 2014, 22, 23007.   | 1.7 | 79        |
| 150 | Mode multi/demultiplexing with parallel waveguide for mode division multiplexed transmission. Optics Express, 2014, 22, 29321.   | 1.7 | 90        |
| 151 | Four-mode PLC-based mode multi/demultiplexer with LP <sub>11</sub> mode rotator on one chip for MDM transmission. , 2014, , .  |     | 2         |
| 152 | Multi-core to 7 single-core-fibers fan-out device with multi-core fiber pigtail connector. Proceedings of SPIE, 2014, , .  | 0.8 | 1         |
| 153 | Design of Three-Spatial-Mode Ring-Core Fiber. Journal of Lightwave Technology, 2014, 32, 1337-1343.  | 2.7 | 88        |
| 154 | Design Optimization of Large-Mode-Area All-Solid Photonic Bandgap Fibers for High-Power Laser Applications. Journal of Lightwave Technology, 2014, 32, 440-449.                                  | 2.7 | 19        |
| 155 | Theoretical Investigation of Inter-core Crosstalk Properties in Homogeneous Trench-Assisted Multi-Core Fibers. , 2014, , .   |     | 3         |
| 156 | Heterogeneous trench-assisted few-mode multi-core fiber with low differential mode delay. Optics Express, 2014, 22, 4329.  | 1.7 | 35        |
| 157 | Three-Dimensional Finite-Element Mode-Solver for Nonlinear Periodic Optical Waveguides and Its Application to Photonic Crystal Waveguides. Journal of Lightwave Technology, 2014, 32, 4011-4019. | 2.7 | 23        |
| 158 | Dependence of Crosstalk Increase due to Tight Bend on Core Layout of Multi-Core Fiber. , 2014, , .   |     | 4         |
| 159 | Yb-Doped All-Solid Photonic Bandgap Fiber Lasers. , 2014, , .  |     | 0         |
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