

LIST OF PUBLICATIONS USING BEAMPROP ®

Paper title	Author's Name	Publication	Year
3D polarization-dependent waveguide arrays in LiNbO ₃ crystal produced by femtosecond laser writing	Bo Wu ; Bin Zhang ; Lei Wang ; Feng Chen	Published in:Journal of Lightwave Technology Page(s) 1 - 1 Print ISSN: 0733-8724 Electronic ISSN: 1558-2213 DOI 10.1109/JLT.2020.2982905 Publisher: IEEE	2020
General formulae of designing novel photonic digital sensors with arbitrary levels of directional couplers for testing liquids	Ruei-Chang Lu & Keh-Yi Lee	Optical and Quantum Electronics volume 52, Article number: 69 (2020) Web Reference : SpringerLink	2020
A Review of Multimode Interference Polymer Thermo-Optic Switch from the Fundamental Perspective	Ahmad, N. S.; Yaacob, M.; Othman, M. B.; Ngajikin, N. H.	Publisher: American Scientific Publishers DOI: https://doi.org/10.1166/jctn.2020.8822 Volume 17,Number 2-3,pp. 673-680	2020
A proton-implanted planar waveguide fabricated in terbium gallium garnet crystal	Yue Wang, Xue-Wen Long, Qi-Feng Zhu, Jing-Yi Chen, Jun Xu and Chun-Xiao Liu	Modern Physics Letters B Vol. 34, No. 04, 2050062 (2020)	2020
Reduction of modal noise due to fiber/photodetector misalignment in SSMF links based on 850 nm VCSELs through a low-cost polymer coupling structure	Jacopo Nanni, Carlos Viana, Zerihun Gedeb Tegegne, Giovanni Tartarini, Catherine Algani, and Jean-Luc Polleux	Applied Optics Vol. 59, Issue 8, pp. 2329-2336 (2020)	2020
Low-Power Broadband Thermo-Optic Switch With Weak Polarization Dependence Using a Segmented Graphene Heater	Qian Qian Song, Kai Xin Chen, and Zhe Feng Hu	Journal of Lightwave Technology Vol. 38, Issue 6, pp. 1358-1364 (2020)	2020
Femtosecond Laser-inscribed Non-volatile Integrated Optical Switch in Fused Silica based on Microfluidics-controlled Total Internal Reflection	Ana Radosavljevic,Andres Desmet,Jeroen Missinne,Kumar Saurav,Vivek Panapakkam,Salvatore Tuccio,Cristina Lerma Arce,Jan Watté,Dries Van Thourhout,Geert Van Steenberge	Published in:Journal of Lightwave Technology Page(s) 1 - 1 Print ISSN: 0733-8724 Electronic ISSN: 1558-2213 DOI:10.1109/JLT.2020.2983109	2020
Spider Silk-Based Improved Multimode Interference Structure for Humidity Sensing	Yu Zhang ; Min Zhang ;Jiapeng Li ; Yaxun Zhang ; Zhihai Liu; Xinghua Yang; Jianzhong Zhang ; Jun Yang ; Libo Yuan	Published in:IEEE Sensors Journal (Volume: 20 , Issue: 13 , July1, 1 2020) Page(s)7069 - 7073 Print ISSN: 1530-437X Electronic ISSN: 1558-1748 CD: 2379-9153 DOI:10.1109/JSEN.2020.2978489	2020
Compact ultrabroad-bandwidth cascaded arrayed waveguide gratings	Arthur van Wijk, Christopher R. Doerr, Zain Ali, Mustafa Karabiyik, and B. Imran Akca	Optics Express Vol. 28, Issue 10, pp. 14618-14626 (2020)	2020
Heterogeneous photodiodes on silicon nitride waveguides	Qianhuan Yu, Junyi Gao, Nan Ye, Baiheng Chen, Keye Sun, Linli Xie, Kartik Srinivasan, Michael Zervas, Gabriele Navickaite, Michael Geiselmann, and Andreas Beling	Optics Express Vol. 28, Issue 10, pp. 14824-14830 (2020)	2020
Design of non-reciprocal device based on magnetic photonic crystal fiber with enhanced birefringence	Khadidja Saker,Shengli Pu	Microelectronics Journal Volume 100, June 2020, 104786 Web Reference : ELSEVIER	2020

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Construction and investigation of a planar waveguide in photo-thermal-refractive glass by proton implantation	Jing-Yi Chen, Chun-Xiao Liu	Optik Volume 207, April 2020, 164461 Web Reference : ELSEVIER	2020
Optimization of Single-Step UV Exposure for Fabrication of Integrated Optical Device by Imprinting	Shim, Young Bo; UK Bae, Han; Park, Jun Tae; Jeong, Myung Yung	Publisher: American Scientific Publishers DOI: https://doi.org/10.1166/sam.2020.3673 Volume 12, Number 4, pp. 600-604	2020
All-Pass and Add-Drop Microsphere Resonator in a Suspended Dual-Core Hollow Fiber	Lei Yang ; Xiaobei Zhang ; Yong Yang ; Fengyu Hou ; Wen Sun ; Hang Su	Published in: IEEE Photonics Technology Letters (Volume: 32 , Issue: 10 , May15, 15 2020) Page(s) 603 - 606 Print ISSN: 1041-1135 Electronic ISSN: 1941-0174 DOI: 10.1109/LPT.2020.2986549	2020
Monolithically-integrated cytometer for measuring particle diameter in the extracellular vesicle size range using multi-angle scattering	Jonathan T. Butement, Paul M. Holloway, Joshua A. Welsh, Judith A. Holloway, Nicola A. Englyst, Peter Horak, Jonathan West and James S. Wilkinson	Royal Society of Chemistry DOI: 10.1039/C9LC01182J (Paper) Lab Chip, 2020, 20, 1267-1280	2020
Measurement of the horizontal beam emittance of undulator radiation by tandem-double-slit optical system	Y. Kagoshima, T. Akada, T. Ikeda, M. Kawashima, Y. Aoi and Y. Takayama	Journal of Synchrotron Radiation Volume 27, 799-803	2020
Zero-Bias High-Speed Evanescently Coupled Waveguide Type-II UTC Photodiode	Fengxin Yu, Keye Sun, Qianhuan Yu, and Andreas Beling	Optical Fiber Communication Conference (OFC) 2020 OSA Technical Digest (Optical Society of America, 2020), paper W4G.6	2020
Diamond-blade diced trapezoidal ridge waveguides in YCOB crystal for second harmonic generation	Chen Chen & Shengqiang Zhou	Optics & Laser Technology Volume 126, June 2020, 106128 Web Reference : ELSEVIER	2020
Impact of indirect mode coupling on planar lightwave circuit based mode converters/multiplexers	Xiupu Zhang & Ying Hou	Optics Communications Volume 465, 15 June 2020, 125608 Web Reference : ELSEVIER	2020
Simulation of Mach-Zehnder Interferometer plastic optical fibre for temperature and refractive index measurement	Ian Yulianti, N. M. Dharma Putra, Fianti, S. Maimanah, H. Rumiana, M. Y. M. Noor, A. S. M. Supa at and O. Kurdi	IOP Conference Series: Materials Science and Engineering Volume 807 Web Reference : IOPScience	2020
Nanosecond laser writing of straight and curved waveguides in silicon with shaped beams	Xinya Wang, Xiaoming Yu, Matthew Berg, Brett De Paola, Hongyu Shi, Pingping Chen, Lianjie Xue, Xuefeng Chang, and Shuting Lei	Journal of Laser Applications 32 , 022002 (2020) Volume 32, Issue 2	2020
Reduction of modal noise due to fiber/photodetector misalignment in SSMF links based on 850 nm VCSELs through a low-cost polymer coupling structure	Jacopo Nanni, Carlos Viana, Zerihun Gedeb Tegegne, Giovanni Tartarini, Catherine Algani, and Jean-Luc Polleux	Applied Optics Vol.59, Issue 8, pp.2329-2336 Web Reference : OSA Publishing	2020
Low-Power Broadband Thermo-Optic Switch With Weak Polarization Dependence Using a Segmented Graphene Heater	Qian Qian Song, Kai Xin Chen, and Zhe Feng Hu	Journal of Lightwave Technology Vol.38, Issue 6, pp.1358-1364 (2020)	2020
Femtosecond Laser-inscribed Non-volatile Integrated Optical Switch in Fused Silica based on Microfluidics-controlled Total Internal Reflection	Ana Radosavljevic, Andres Desmet, Jeroen Missinne, Kumar Saurav, Vivek Panapakkam, Salvatore Tuccio, Cristina Lerma Arce, Jan Watté, Dries Van Thourhout, Geert Van Steenberge	Published in: Journal of Lightwave Technology Print ISSN: 0733-8724 Electronic ISSN: 1558-2213 DOI: 10.1109/JLT.2020.2983109"	2020

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Spider Silk-Based Improved Multimode Interference Structure for Humidity Sensing	Yu Zhang, Min Zhang, Jiapeng Li, Yaxun Zhang, Zhihai Liu, Xinghua Yang, Jianzhong Zhang, Jun Yang, Libo Yuan	Published in: IEEE Sensors Journal (Volume: 20 , Issue: 13 , July1, 1 2020) Print ISSN: 1530-437X Electronic ISSN: 1558-1748 DOI: 10.1109/JSEN.2020.2978489	2020
Heating of aqueous suspensions of silicon nanoparticles by a 808-nm diode laser for application in local photohyperthermia	V.A. Oleshchenko, V.V. Bezotosnyi and V.Yu. Timoshenko	Quantum Electronics Volume 50, Number 2, 2020 Kvantovaya Elektronika, Turpion Ltd and IOP Publishing Ltd	2020
Signal-source estimation from magnetic field image obtained using atomic magnetometer and digital micro-mirror devi	Shuji Taue & Yoshitaka Toyota	Optical Review 27, 258-263 Web Reference : SpringerLink	2020
Heterogeneous photodiodes on silicon nitride waveguides	Qianhuan Yu, Junyi Gao, Nan Ye, Baiheng Chen, Keye Sun, Linli Xie, Kartik Srinivasan, Michael Zervas, Gabriele Navickaite, Michael Geiselmann, and Andreas Beling	OSA Publishing Optics Express Vol. 28, Issue 10, pp. 14824-14830	2020
Tunable Stokes laser based on the cascaded stimulated polariton scattering and stimulated Raman scattering in RbTiOPO4 crystal	Feilong Gao, Xingyu Zhang, Zhenhua Cong, Zhaojun Liu, Xiaohan Chen, Zengguang Qin, Peng Wang, and Jinjin Xu	Optics Letters OSA Publishing Vol.45, Issue 4, pp.861-864 (2020)	2020
Offset effect on the S-Bend structure losses and optimization of its size for integrated optics	Brik, Fatima; Harize, S; Fares, A; Saouchi, K.	International Journal of Electrical and Computer Engineering (IJECE) Vol. 10, No. 4, August 2020, pp. 4162~4167 ISSN: 2088-8708, DOI: 10.11591/ijece.v10i4.pp4162-4167	2020
Construction and investigation of a planar waveguide in photo-thermal-refractive glass by proton implantation	Jing-Yi Chen, Zhong-Hu Xie, Wei-Nan Li, She-Bao Lin, Liao-Lin Zhang, Chun-Xiao Liu	Optik Volume 207, April 2020, 164461 Web Reference : Elsevier	2020
Zero-Bias High-Speed Evanescently Coupled Waveguide Type-II UTC Photodiode	Fengxin Yu, Keye Sun, Qianhuan Yu, and Andreas Beling	Optical Fiber Communication Conference (OFC) 2020, OSA Publishing, Conference Papers, OFC, W4G	2020
Quantum dot polarisation converter in an optomechanical cavity	A.V. Tsukanov and I.Yu. Kateev	Quantum Electronics, Volume 50, Number 3	2020
All-Pass and Add-Drop Microsphere Resonator in a Suspended Dual-Core Hollow Fiber	Lei Yang, Xiaobei Zhang, Yong Yang, Fengyu Hou, Wen Sun, Hang Sun, Qianqing Yu, Zhenggang Lian, Tingyun Wang	Published in: IEEE Photonics Technology Letters (Volume: 32 , Issue: 10 , May15, 15 2020) Print ISSN: 1041-1135 Electronic ISSN: 1941-0174 DOI: 10.1109/LPT.2020.2986549	2020
A Chip-Scale Plasmonic Spectrometer for In Situ Characterization of Solar System Surfaces	Nancy Chanover ; Sang-Yeon Cho ; David Voelz ; Charles Pelzman ; Hanyu Zhan ; Matthew Varakian	Published in: 2019 IEEE Aerospace Conference Electronic ISBN: 978-1-5386-6854-2 Print on Demand(PoD) ISBN: 978-1-5386-6855-9 Print on Demand(PoD) ISSN: 1095-323X INSPEC Accession Number: 18775372 DOI : 10.1109/AERO.2019.8741932 Publisher: IEEE Conference Location: Big Sky, MT, USA, USA	2019

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Design and simulation of optical micro-structures in silicon integrated circuitry with Si avalanche-mode light emitters, EXCEL optical ray tracing, and RSOFTE optical simulation	Lukas W. Snyman, Timothy Okhai	Proceedings Volume 11043, Fifth Conference on Sensors, MEMS, and Electro-Optic Systems; 110430M (2019)	2019
Second harmonic generation of femtosecond laser written depressed cladding waveguides in periodically poled MgO:LiTaO ₃ crystal	Lei Wang, Xintong Zhang, Lingqi Li, Qingming Lu, Carolina Romero, Javier R. Vázquez de Aldana, and Feng Chen	Optics Express Vol. 27, Issue 3, pp. 2101-2111 Web Reference : OSA Publishing	2019
2 × 2 microparticles curvilinear transport channel based on dual self-accelerating beams	Zhihai Liu, Tong Wang, Yu Zhang, Xiaoyun Tang, Wenjie Su, Wanming Dong, Siyu Lin, Xinghua Yang, Jianzhong Zhang, Jun Yang and Libo Yuan	AIP Journal of Applied Physics 125, 213107 (2019)	2019
Numerical method for analysis of the correlation between ferrofluid optical transmission and its intrinsic properties	A.Sanz-Felipe, J.C. Martin	Journal of Magnetism and Magnetic Materials Volume 474, Pages 613-618 Web Reference : ELSEVIER	2019
High sensitivity micro-fiber Mach-Zehnder interferometric temperature sensors with a high index ring layer	Yuqi Wu, Dong Yan, Nan-Kuang Chen, Kenneth T. V. Grattan, B. M. A. Rahman, Xuan Li, Zhen Tian, Liqiang Zhang, Xia Zhang, Xiaoguang Zhang, Lixia Xi, and Hu Zhang	Optics Express Vol.27, Issue 23, pp.34247-34257 Web Reference : OSA Publishing	2019
Characterization of tilted end-fiber diffraction grating inscribed by femtosecond laser	D.PallaresAldeiturriaga, L.Rodriguez Cobo, M.Lomer, J.M.Lopez-Higuera	Optics & Laser Technology Volume 119, November 2019, 105637 Web Reference : ELSEVIER	2019
Ultra-short embedded long-period waveguide grating for broadband mode conversion	Wei Ke Zhao, Kai Xin Chen & Jie Yun Wu	Applied Physics B 125, Article Number : 177 Web Reference : SpringerLink	2019
Peculiarities of the Perturbation of Water Structure by Ions with Various Hydration in Concentrated Solutions of CaCl ₂ , CsCl, KBr, and KI	N. V. Penkov	Terahertz and Optical Spectroscopy of Water and Aqueous Solutions Physics of Wave Phenomena 27, 128-134	2019
Red-green-blue Beam Combiner Based on Two-mode Interference	Youngchul Chung	Current Optics and Photonics Vol.3, Issue 1, pp. 22-26	2019
Hollow Core Waveguide Sensor Array Based on a Macroporous Silicon Membrane Structure	Sang-Woo Seo, Hojjat Rostami Azmand, Amarachukwu N. Enemu	Published in: Journal of Lightwave Technology (Volume: 37 , Issue: 9 , May1, 1 2019) Print ISSN: 0733-8724 Electronic ISSN: 1558-2213 DOI: 10.1109/JLT.2019.2897427	2019
Towards a photonic mid-infrared nulling interferometer in chalcogenide glass	Thomas Gretzinger, Simon Gross, Alexander Arriola, and Michael J. Withford	Optics Express Vol.27, Issue 6, pp.8626-8638	2019
SNS optical fiber sensor for direct detection of phase transitions in C ₁₈ H ₃₈ n-alkane material	Wei Han, Marek Rebow, Xiaokang Lian, Dejun Liu, Gerald Farrell, Qiang Wu, Youqiao Ma, Yuliya Semenova	Experimental Thermal and Fluid Science Volume 109, December 2019, 109854 Web Reference: ELSEVIER	2019
Mode and Wavelength-Switchable Pulsed Fiber Laser With Few-Mode Fiber Grating	Yu Cai; Zhiqiang Wang ; Hongdan Wan; Zuxing Zhang; Lin Zhang	Published in: IEEE Photonics Technology Letters (Volume: 31 , Issue: 14 , July15, 15 2019) Print ISSN: 1041-1135 Electronic ISSN: 1941-0174 DOI: 10.1109/LPT.2019.2921339	2019
Optical loss characterization of SEO100C electro-optic polymer within single mode rib waveguides	Evan Gawron, Michael Maurer, Christopher Middlebrook, and Kevin Kellar	OSA Continuum Vol.2, Issue 11, pp.3299-3308 (2019)	2019

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Enhancement of strong-electromagnetic-field ionization in a constant magnetic field	V. M. Rylyuk	Phys. Rev. A 100, 053409 – Published 15 November 2019	2019
Fiber-optic multipoint laser-ultrasonic excitation transducer using coreless fibers	Yuan Li, Jiajun Tian, Shaobo Ji, Cheng Zhou, Yunxu Sun, and Yong Yao	Optics Express Vol. 27, Issue 5, pp. 6116 - 6128 (2019) Web Reference : OSA Publishing	2019
Orbital angular momentum of a laser beam behind an off-axis spiral phase plate	Victor Kotlyar, Alexey Kovalev, Alexey Porfirev, and Elena Kozlova	Optics Letters Vol. 44, Issue 15, pp. 3673-3676 Web Reference : OSA Publishing	2019
Circular Airy Beam Shaping by Annular Arrayed-Core Fiber	Hongchang Deng, Chuanxin Teng, Houquan Liu, Ming Chen, Shijie Deng, Ronghui Xu, Hongyan Yang, and Libo Yuan	Journal of Lightwave Technology Vol.37, Issue 18, pp.4844-4850 (2019)	2019
Thermally expanded multicore-fiber-based mode multiplexer/demultiplexer	Thomas Joseph and Joseph John	Journal of the Optical Society of America B Vol.36, Issue 12, pp. 3499-3504 (2019)	2019
A new application of optical fiber surface plasmon resonance for micro-displacement measurement	Yong Wei, Ping Wu, Yonghui Zhang, Chunlan Liu, Lu Liu, Zongda Zhu, Jiangxi Hu	Sensors and Actuators A: Physical Volume 285, 1 January 2019, Pages 216-223	2019
WS2-based Q-switched laser generation from Nd:YAG ridge waveguides fabricated by combination of swift heavy ion irradiation and laser ablation	Hailing Jiang, Ziqi Li, Xuejian Dong, Chi Pang, Shixiang Wang, Feng Chen	Optical Materials Volume 92, June 2019, Pages 163-166 Web Reference: ELSEVIER	2019
Optical properties and surface blistering visualization on multiple-energy He-implanted Yb:YGG crystal by annealing treatment	Jinhua Zhao, Lili Ye, Yong Liu, Shuang Li, Gang Fu, Qingyang Yue	Results in Physics Volume 15, December 2019, 102621	2019
Polymer large core optical splitter 1 × 2 Y for high-temperature operation	Vaclav Prajzler & Jan Zazvorka	Optical and Quantum Electronics volume 51, Article number: 216 (2019)	2019
Poynting Vector Method for Reflector Beam Shaping	Dong Xia, Ming Jin, Ming Bai	Published in: IEEE Antennas and Wireless Propagation Letters (Volume: 18 , Issue: 4 , April 2019) Print ISSN: 1536-1225 Electronic ISSN: 1548-5757 DOI: 10.1109/LAWP.2019.2900718	2019
Tapered hollow annular core fiber coupled whispering-gallery mode microsphere resonators	Yong Yang, Jiawei Wang, Xiaobei Zhang, Hai Xiao, Tingyun Wang	Proceedings Volume 10904, Laser Resonators, Microresonators, and Beam Control XXI; 109041V (2019)	2019
FACET-II facility for advanced accelerator experimental tests	V. Yakimenko, L. Alsberg, E. Bong, G. Bouchard, C. Clarke, C. Emma, S. Green, C. Hast, M. J. Hogan, J. Seabury, N. Lipkowitz, B. O'Shea, D. Storey, G. White, and G. Yocky	Phys. Rev. Accel. Beams 22 , 101301 – Published 9 October 2019	2019
Monolithic 1×4 Reconfigurable Electro-Optic Tunable Interleaver in Lithium Niobate Thin Film	Xuepeng Li, Mengke Wang, Junhui Li, Junhui Li	IEEE Photonics Technology Letters (Volume: 31 , Issue: 20 , Oct.15, 15 2019) Print ISSN: 1041-1135 Electronic ISSN: 1941-0174 DOI: 10.1109/LPT.2019.2938325	2019
Evolution properties of a partially coherent Lorentz-Gauss vortex beam in a uniaxial crystal	Dajun Liu, Haiyang Zhong, Guiqiu Wang, Hongming Yin & Yaochuan Wan	Journal of Modern Optics, Volume 66, 2019- Issue 1	2019
Band-rejection Filter Based on Cascaded Two Sidewall Gratings in Multimode Polymer Waveguide	Rui Cao, Lingfang Wang, and Kaixin Chen	Asia Communications and Photonics Conference 2019 Chengdu China 2–5 November 2019 ISBN: 978-1-943580-70-5	2019

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Tunable Optical Add/Drop Filter for CWDM Systems Using Photonic Crystal Ring Resonator	Savita Soma, Mahesh V. Sonth & Sanjaykumar C. Gowre	Journal of Electronic Materials volume 48, pages 7460–7464 (2019)	2019
Monolithically-integrated cytometer for measuring particle diameter in the extracellular vesicle size range using multi-angle scattering	Jonathan T. Butement, Paul M. Holloway, Joshua A. Welsh, Judith A. Holloway, Nicola A. Englyst, Peter Horak, Jonathan West and James S. Wilkinson	DOI: 10.1039/C9LC01182J (Paper) <i>Lab Chip</i> , 2020, 20 , 1267-1280	2019
Two-core fiber based mode coupler for single-mode excitation in a two-mode fiber for quasi-single-mode operation	Thomas Joseph, Joseph John	Optical Fiber Technology Volume 52, November 2019, 101970 Web Reference : Elsevier	2019
Optimized active multicore fiber bending sensor	Juan A. Vallé, David Benedicto	Optical Materials, Volume 87, January 2019, Pages 53-57	2019
Ultra-broadband fiber mode converter based on apodized phase-shifted long-period gratings	Yunhe Zhao, Zuyao Liu, Yunqi Liu, Chengbo Mou, Tingyun Wang, and Yongsheng Yang	Optics Letters - OSA Publishing, Vol. 44, Issue 24, pp. 5905-5908 (2019)	2019
Enhanced collective stopping and drift of electron beams in fusion plasmas with heavy-ion species	Xiao-Juan Wang, Zhang-Hu Hu, and You-Nian Wang	Physical Review E 101 , 043203 – Published 10 April 2020 DOI: https://doi.org/10.1103/PhysRevE.101.043203	2019
Cyclo Olefin Copolymer Large Core Optical Splitter	Vaclav Prajzler, Jan Zazvorka	IEEE Electronic ISBN: 978-4-88552-321-2 Print on Demand (PoD) ISBN: 978-1-5386-7651-6 DOI: 10.23919/PS.2019.8817629	2019
STATUS OF THE SUPERCONDUCTING SOFT X-RAY FREE-ELECTRON LASER USER FACILITY FLASH AT DESY	J. Rönsch-Schulenburg, K. Honkavaara, M. Kuhlmann, S. Schreiber, R. Treusch, M. Vogt * DESY, Hamburg, Germany	JACoW Publishing ISBN: 978-3-95450-208-0 doi:10.18429/JACoW-IPAC2019-TUPRB106IPAC2019, Melbourne, Australia	2019
Vertical Optical Coupling Structure Based on Polymer for Small Size and High-Speed Photodetectors	Xiaoyun Tang, Yu Zhang, Wenjie Su, Yaxun Zhang, Zhihai Liu, Xinghua Yang, Jianzhong Zhang, Jun Yang, and Libo Yuan	Optics Letters - OSA Publishing, Vol. 44, Issue 21, pp. 5165-5168 (2019)	2019
Enhanced Magneto-Optical Effects in Magnetic Photonic Crystal Fiber Based on Yttrium Iron Garnet	K. Saker ; T. Bouchemat ; M. Lahoubi ; M. Bouchemat ; S. Pu ; Y. Zhao	IEEE Published in: 2019 18th International Conference on Optical Communications and Networks (ICOON) Electronic ISBN: 978-1-7281-2764-4 Print on Demand (PoD) ISBN: 978-1-7281-2765-1 DOI: 10.1109/ICOON.2019.8934875	2019
A visible light RGB wavelength demultiplexer based on silicon-nitride multicore PCF	Rami Dadabayev, Nadav Shabairou, Zeev Zalevsky, Dror Malka	Optics & Laser Technology, Volume 111, April 2019, Pages 411-416	2019
Integrated measurement server for measurement-device-independent quantum key distribution network	Ci-Yu Wang, Jun Gao, Zhi-Qiang Jiao, Lu-Feng Qiao, Ruo-Jing Ren, Zhen Feng, Yuan Chen, Zeng-Quan Yan, Yao Wang, Hao Tang, and Xian-Min Jin	Optics Express OSA Publishing, Volume 27, Issue 5, pp. 5982-5989	2019
Investigation of Hybrid Silicon-Nitride/Polymer Waveguides for Second-Harmonic Generation	Subrata Das, Brett R. Wenner, Jeffery W. Allen, Monica S. Allen, Michael Vasilyev	IEEE Journals & Magazines, Photonics Journal, Volume :11 Issue :3	2019
Impact of indirect mode coupling on planar lightwave circuit based mode converters/multiplexers	Xiupu Zhang, Hao Sun, Taijun Liu, Ying Hou	Optics Communications, Vol. 465,	2019

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Investigation of Grating Assisted Mode-Selective Few-Mode Fused Fiber Couplers	K.Bremer,S.Schlangen,S.Bohm,F.Wellmann,M.Steinke,J.Neumann,B.Roth,L. Overmeyer	Conference on Lasers and Electro-Optics Europe & European Quantum Electronics Conference (CLEO/Europe-EQEC) Electronic ISBN: 978-1-7281-0469-0 DOI: 10.1109/CLEOE-EQEC.2019.8872977	2019
Numerical simulation of 4 μm InGaAs/AlAsSb Quantum Cascade Lasers on InP Substrate	Ning An,Lei Ma,Tianshu Gao,Zhipeng Liang,Guanyu Wen,Haitao Zhang and Cunbo Fan	IEEE 3rd International Conference on Electronic Information Technology and Computer Engineering (EITCE) Electronic ISBN: 978-1-7281-3584-7 DOI: 10.1109/EITCE47263.2019.9094999	2019
On-Chip Spectrometer using Cascaded Echelle Gratings and Arrayed Waveguide Gratings	Mustafa Karabiyik,Naznin Akter,Nezih Pala	IEEE Electronic ISBN: 978-1-7281-0602-1 DOI: 10.1109/RAPID.2019.8864430	2019
Technological line for creation and research of diffractive optical elements	Nikolay L. Kazanskiy, Roman V. Skidanov	Proc. SPIE 11146, Optical Technologies for Telecommunications 2018, 111460W (24 June 2019)	2019
Modal analysis using photonic lanterns coupled to arrays of waveguides	Momen Diab and Stefano Minardi	Optics Letters OSA Publishing Vol.44, Issue 7,pp. 1718-1721 (2019)	2019
Investigations on Integrated Optical Interference Couplers in PMMA for Visible and Infrared Range Fabricated by "Direct Writing" Excimer Laser Radiation	Humza Mirza, Bin Wu, Sabine Tiedeken, Volker Braun, Hans Josef Brückner and Ulrich Teubner	Journal of Optical Communications, Volume 40, Issue 2, ISSN 2191-6322, ISSN 0173-4911,	2019
Fiber Reshaping-Based Refractive Index Sensor Interrogated through Both Intensity and Wavelength Detection	Peng Ji,Shiru Jiang,Sang-Shin Lee	Fiber Reshaping-Based Refractive Index Sensor Interrogated through Both Intensity and Wavelength Detection. Sensors , Vol.19, Issue 11,10.3990/s19112477	2019
Graphene-embedded first-order mode polymer Mach-Zender interferometer thermo-optic switch with low power consumption	Jiawen Lv, Yue Yang, Baizhu Lin, Yue Cao, Yongbo Zhang, Shuai Li, Yunji Yi, Fei Wang, and Daming Zhang	Optics Letters OSA Publishing Vol.44, Issue 18,pp.4606-4609 (2019)	2019
Two-core fiber-based mode converter and mode demultiplexer	Thomas Joseph and Joseph John	Journal of the Optical Society of America B Vol.36, Issue 8, pp.1987-1994 (2019)	2019
Femtosecond Laser Writing of Optical Waveguides by Self-Induced Multiple Refocusing in LiTaO3 Crystal	Lingqi Li,Wei jie Nie,Bin Zhang,Lei Wang,Patricia Haro-González,Daniel Jaque,Javier R. Vázquez de Aldana,Feng Chen	IEEE Journal of Lightwave Technology vol.37,issue-14, Electronic ISSN: 1558-2213 INSPEC Accession Number: 18790600 DOI: 10.1109/JLT.2019.2917076	2019
996 nm high-power single-longitudinal-mode tapered gain-coupled distributed feedback laser diodes	Yuxin Lei, Yongyi Chen, Feng Gao, Dezheng Ma, Peng Jia, Hao Wu, Chunkao Ruan, Lei Liang, Chao Chen, Jun Zhang, Li Qin, Yongqiang Ning, and Lijun Wang	OSA Publishing - Applied Optics - Volume 58 - Issue 23, pp. 6426-6432 (2019)	2019
Functional Performance of a Millimeter Wave Square Holey Dielectric Waveguide	N. Aflakian ; M. Gomez ; C. Miller ; R. Henderson ; D. MacFarlane ; K. K. O	IEEE Electronic ISSN: 2164-2974 Electronic ISBN: 978-1-5386-5944-1 DOI: 10.1109/RWS.2019.8714541	2019

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Realizing micro- and nano-optical bio sensors on chip	Timothy A. Okhai, Lukas W. Snyman	Realizing micro- and nano-optical bio sensors on chip", Proc. SPIE 11043, Fifth Conference on Sensors, MEMS, and Electro-Optic Systems, 1104308 (24 January 2019)	2019
INITIAL BEAM COMMISSIONING OF LEAF AT IMP	Y. Yang†, Y. H. Zhai, L. T. Sun, L. Lu, H. Jia, W. P. Dou, X. Fang, L. Jing, Y. Wei, W. Ma, L. P. Sun, W. Lu, Y. H. Guo, X. J. Liu, H. W. Zhao, IMP/CAS, Lanzhou, China	JACoW Publishing ISBN: 978-3-95450-194-6 doi:10.18429/JACoW-LINAC2018-TUPO005	2019
Micro optical sensors based on avalanching silicon light-emitting devices monolithically integrated on chips	Kaikai Xu, Yanxu Chen, Timothy A. Okhai, and Lukas W. Snyman	Optical Materials Express Vol.9, Issue 10, pp.3985-3997 (2019)	2019
Simulation of Lateral Near- and Far-Field Profiles of Gain-Guided High-Power Semiconductor Lasers	Carlo Holly, Stewart McDougall	IEEE Electronic ISSN: 2158-3242 Electronic ISBN: 978-1-7281-1647-1 DOI: 10.1109/NUSOD.2019.8806796	2019
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