# Maksim Skorobogatiy

List of Publications by Year
in descending order

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|---|---|---|---|
| 249<br>papers | 7,192<br>citations | 53794<br>45<br>h-index | 64796<br>79<br>g-index |
| 281<br>all docs | 281<br>docs citations | 281<br>times ranked | 5402<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Continuously tunable middle-IR bandpass filters based on gradient metal-hole arrays for multispectral sensing and thermography. Journal of Applied Physics, 2022, 131, . | 2.5 | 2 |
| 2 | Terahertz solid immersion microscopy: Recent achievements and challenges. Applied Physics Letters, 2022, 120, . | 3.3 | 17 |
| 3 | Infinity additive manufacturing of continuous microstructured fiber links for THz communications. Scientific Reports, 2022, 12, 4551. | 3.3 | 8 |
| 4 | Jamming a terahertz wireless link. Nature Communications, 2022, 13, . | 12.8 | 16 |
| 5 | Photonics based frequency hopping spread spectrum system for secure terahertz communications. Optics Express, 2022, 30, 27028. | 3.4 | 8 |
| 6 | Add drop multiplexers for terahertz communications using two-wire waveguide-based plasmonic circuits. Nature Communications, 2022, 13, . | 12.8 | 19 |
| 7 | Fabrication and characterization of a composite TiO<sub>2</sub>-polypropylene high-refractive-index solid immersion lens for super-resolution THz imaging. Optical Materials Express, 2022, 12, 3015. | 3.0 | 8 |
| 8 | Modular 3D-Printed Plasmonic Circuits for Signal Processing in THz Communications. , 2021, , . | | 0 |
| 9 | Object-dependent spatial resolution of the reflection-mode terahertz solid immersion microscopy. Optics Express, 2021, 29, 3553. | 3.4 | 20 |
| 10 | Terahertz Communications Using Rod-in-air Dielectric Subwavelength Fiber. , 2021, , . | | 0 |
| 11 | Broadband wide-angle terahertz antenna based on the application of transformation optics to a Luneburg lens. Scientific Reports, 2021, 11, 5230. | 3.3 | 16 |
| 12 | Special Section Guest Editorial: Advances in Terahertz Biomedical Science and Applications. Journal of Biomedical Optics, 2021, 26, . | 2.6 | 8 |
| 13 | Opal-based terahertz optical elements fabricated by self-assembly of porous SiO<sub>2</sub> nanoparticles. Optics Express, 2021, 29, 13764. | 3.4 | 8 |
| 14 | Terahertz dielectric spectroscopy and solid immersion microscopy of ex vivo glioma model 101.8: brain tissue heterogeneity. Biomedical Optics Express, 2021, 12, 5272. | 2.9 | 23 |
| 15 | Additive manufacturing of reconfigurable two-wire plasmonic circuits for terahertz communications. , 2021, , . | | 0 |
| 16 | Continuous Fabrication of Microstructured Waveguides for THz Communications Using Infinite 3D Printing. , 2021, , . | | 0 |
| 17 | Comparison of Wired and Wireless Channel for Short Range Frequency Hopping Terahertz System. , 2021, , . | | 0 |
| 18 | Dielectric Fiber-assisted Terahertz Communication Links: Perspectives and Challenges for Onboard and Secure Communications. , 2021, , . | | 0 |

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| 19 | Wired Channel Modeling for Frequency Hopping System in Secure Terahertz Communications. , 2021, , . | | 0 |
| 20 | Cellular effects of terahertz waves. Journal of Biomedical Optics, 2021, 26, . | 2.6 | 44 |
| 21 | Fabrication and Characterization of an 8 Ã— 8 Terahertz Photoconductive Antenna Array for Spatially Resolved Time Domain Spectroscopy and Imaging Applications. IEEE Access, 2021, 9, 117691-117702. | 4.2 | 15 |
| 22 | Secure Bar Code Reader for the THz Region. , 2021, , . | | 0 |
| 23 | Pencil Beams from Leaky-Wave Antenna for Terahertz Communications. , 2021, , . | | 0 |
| 24 | Rapid Low-Cost Prototyping of Terahertz Metallic Metasurfaces. , 2021, , . | | 0 |
| 25 | Quantitative super-resolution solid immersion microscopy via refractive index profile reconstruction. Optica, 2021, 8, 1471. | 9.3 | 23 |
| 26 | Ceramic-based metamaterial for THz sensing applications. , 2021, , . | | 1 |
| 27 | Highly Directional Antennas for Terahertz Communications. , 2021, , . | | 0 |
| 28 | Terahertz Metallic Metasurfaces Prototyping Using Hot Stamping. , 2021, , . | | 0 |
| 29 | Additive manufacturing of reconfigurable two-wire plasmonic circuits for terahertz communications. , 2021, , . | | 0 |
| 30 | Continuous Fabrication of Suspended Core Polypropylene Fiber for THz Communications. , 2021, , . | | 0 |
| 31 | The progress and perspectives of terahertz technology for diagnosis of neoplasms: a review. Journal of Optics (United Kingdom), 2020, 22, 013001. | 2.2 | 135 |
| 32 | Overcoming the Abbe Diffraction Limit Using a Bundle of Metalâ€Coated Highâ€Refractiveâ€Index Sapphire Optical Fibers. Advanced Optical Materials, 2020, 8, 2000307. | 7.3 | 18 |
| 33 | Super-Resolution Orthogonal Deterministic Imaging Technique for Terahertz Subwavelength Microscopy. ACS Photonics, 2020, 7, 1866-1875. | 6.6 | 16 |
| 34 | Improving thermo-optic properties of smart windows via coupling to radiative coolers. Applied Optics, 2020, 59, D210. | 1.8 | 6 |
| 35 | Proof of concept for continuously-tunable terahertz bandpass filter based on a gradient metal-hole array. Optics Express, 2020, 28, 26228. | 3.4 | 20 |
| 36 | Nanoporous SiO2 based on annealed artificial opals as a favorable material platform of terahertz optics. Optical Materials Express, 2020, 10, 2100. | 3.0 | 17 |

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| 37 | Additive manufacturing of highly reconfigurable plasmonic circuits for terahertz communications. Optica, 2020, 7, 1112. | 9.3 | 26 |
| 38 | Dispersion-limited versus power-limited terahertz communication links using solid core subwavelength dielectric fibers. Photonics Research, 2020, 8, 1757. | 7.0 | 36 |
| 39 | Improving thermo-optic properties of smart windows via coupling to radiative coolers: publisherâ€™s note. Applied Optics, 2020, 59, 4198. | 1.8 | 0 |
| 40 | Super-resolution Terahertz Microscopy with Deterministic Artificial Fluorophores. , 2020, , . | | 0 |
| 41 | Photonic Bandgap Bragg Waveguide-based Terahertz Microfluidic Sensor. , 2019, , . | | 0 |
| 42 | Low-loss planar components for THz wireless communications. , 2019, , . | | 0 |
| 43 | Reconfigurable Terahertz Array Antenna. , 2019, , . | | 2 |
| 44 | Low-Loss Planar Components for THz Wireless Communications. , 2019, , . | | 0 |
| 45 | High Bitrate Data Transmission Using Polypropylene Fiber in Terahertz Frequency Range. , 2019, , . | | 4 |
| 46 | Experimental Demonstration of 5 Gbps Data Transmission Using Long Subwavelength Fiber at 140 GHz. , 2019, , . | | 1 |
| 47 | Planar Porous Components for Lowâ€Loss Terahertz Optics. Advanced Optical Materials, 2019, 7, 1900236. | 7.3 | 17 |
| 48 | Notice of Removal: Challenges in Terahertz Fiber Based Inter-device Communications. , 2019, , . | | 0 |
| 49 | Low-loss planar porous components for terahertz beamforming. , 2019, , . | | 0 |
| 50 | Surface Wave Enhanced Sensing in the Terahertz Spectral Range: Modalities, Materials, and Perspectives. Sensors, 2019, 19, 5505. | 3.8 | 11 |
| 51 | Terahertz photoconductive emitter with dielectric-embedded high-aspect-ratio plasmonic grating for operation with low-power optical pumps. AIP Advances, 2019, 9, . | 1.3 | 43 |
| 52 | Uniform-velocity spacetime crystals. Advanced Photonics, 2019, 1, 1. | 11.8 | 47 |
| 53 | Additive manufacturing of resonant fluidic sensors based on photonic bandgap waveguides for terahertz applications. Optics Express, 2019, 27, 27663. | 3.4 | 24 |
| 54 | All-Solid Flexible Fiber-Shaped Lithium Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A688-A695. | 2.9 | 15 |

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| 56 | Live Streaming of Uncompressed HD and 4K Videos Using Terahertz Wireless Links. IEEE Access, 2018, 6, 58030-58042. | 4.2 | 50 |
| 57 | Sapphire Photonic Crystal Waveguides for Terahertz Sensing in Aggressive Environments. Advanced Optical Materials, 2018, 6, 1800573. | 7.3 | 48 |
| 58 | Reflection-mode continuous-wave 0.15Î»-resolution terahertz solid immersion microscopy of soft biological tissues. Applied Physics Letters, 2018, 113, . | 3.3 | 80 |
| 59 | Exploiting k-space/frequency duality toward real-time terahertz imaging. Optica, 2018, 5, 109. | 9.3 | 42 |
| 60 | Statistical Models for Averaging of the Pumpâ€“Probe Traces: Example of Denoising in Terahertz Time-Domain Spectroscopy. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 287-298. | 3.1 | 7 |
| 61 | Live Streaming of Uncompressed 4K Video Using Terahertz Wireless Links. , 2018, , . | | 3 |
| 62 | Uncompressed HD and Ultra-HD Video Streaming Using Terahertz Wireless Communications. , 2018, , . | | 3 |
| 63 | Toward real-time terahertz imaging. Advances in Optics and Photonics, 2018, 10, 843. | 25.5 | 301 |
| 64 | Exploiting k-space/frequency duality in Fourier optics toward real-time compression less terahertz imaging. , 2018, , . | | 1 |
| 65 | Piezoelectric microstructured fibers via drawing of multimaterial preforms. , 2018, , . | | 0 |
| 66 | Piezoelectric Micro- and Nanostructured Fibers Fabricated from Thermoplastic Nanocomposites Using a Fiber Drawing Technique: Comparative Study and Potential Applications. ACS Nano, 2017, 11, 2103-2114. | 14.6 | 99 |
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| 68 | Thin flexible lithium-ion battery featuring graphite paper based current collectors with enhanced conductivity. Canadian Journal of Chemistry, 2017, 95, 169-173. | 1.1 | 17 |
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| 71 | A dynamically reconfigurable terahertz array antenna for 2D-imaging applications. , 2017, , . | | 5 |
| 72 | Metallized 3D printed hollow core waveguide Bragg grating for dispersion compensation in terahertz range. , 2017, , . | | 1 |

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| 75 | 3D printed hollow core terahertz Bragg waveguides with defect layers for surface sensing applications. Optics Express, 2017, 25, 4126. | 3.4 | 94 |
| 76 | Analog signal processing in the terahertz communication links using waveguide Bragg gratings: example of dispersion compensation. Optics Express, 2017, 25, 11009. | 3.4 | 45 |
| 77 | Dispersion Compensation in Terahertz Communication Links Using Metallized 3D Printed Hollow Core Waveguide Bragg Gratings. , 2017, , . | | 0 |
| 78 | 3D printed hollow core terahertz Bragg waveguide for surface sensing applications. , 2017, , . | | 2 |
| 79 | 3D Printed Hollow-Core Terahertz Optical Waveguides with Hyperuniform Disordered Dielectric Reflectors. , 2017, , . | | 0 |
| 80 | Squeezed Hollow Core Photonic Bragg fiber for surface sensing applications. , 2017, , . | | 0 |
| 81 | Diagrammatic explanation of the reverse Doppler effect in space-time modulated photonic crystals. , 2016, , . | | 0 |
| 82 | Effect of Aging and PCBM Content on Bulk Heterojunction Organic Solar Cells Studied by Intensity Modulated Photocurrent Spectroscopy. ACS Applied Materials & Interfaces, 2016, 8, 28789-28799. | 8.0 | 9 |
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| 85 | Squeezed hollow-core photonic Bragg fiber for surface sensing applications. Optics Express, 2016, 24, 15687. | 3.4 | 18 |
| 86 | Linear rotary optical delay lines. Proceedings of SPIE, 2016, , . | 0.8 | 0 |
| 87 | Detection of analyte refractive index and concentration using liquid-core photonic Bragg fibers. Proceedings of SPIE, 2016, , . | 0.8 | 1 |
| 88 | Dynamic measurements at THz frequencies with a fast rotary delay line. , 2016, , . | | 0 |
| 89 | Nanotechnology in Textiles. ACS Nano, 2016, 10, 3042-3068. | 14.6 | 530 |
| 90 | Hybrid Metal Wire-Dielectric THz Fibers: Design and Perspectives. , 2015, , . | | 0 |

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| 91 | Dynamic measurements at terahertz frequencies with a fast rotary delay line. , 2015, , . | | 0 |
| 92 | Dispersion Compensation in the Fiber-Based Terahertz Communication Links. , 2015, , . | | 0 |
| 93 | Dynamic measurements at THz frequencies with a fast rotary delay line. , 2015, , . | | 0 |
| 94 | Silk foam terahertz waveguides. , 2015, , . | | 1 |
| 95 | Silk foam terahertz waveguides. , 2015, , . | | 0 |
| 96 | Graded index porous optical fibers â€“ dispersion management in terahertz range. Optics Express, 2015, 23, 7856. | 3.4 | 49 |
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| 98 | Time Resolved Dynamic Measurements at THz Frequencies Using a Rotary Optical Delay Line. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 564-572. | 3.1 | 20 |
| 99 | Flexible fiber batteries for applications in smart textiles. Smart Materials and Structures, 2015, 24, 025012. | 3.5 | 20 |
| 100 | Graded Index Porous Optical Fibers â€“ Dispersion Management in Terahertz Range. , 2015, , . | | 0 |
| 101 | Hollow core terahertz optical fibers with hyperuniform disordered dielectric reflectors. , 2014, , . | | 2 |
| 102 | Hybrid metal wireâ€“dielectric terahertz waveguides: challenges and opportunities [Invited]. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 2587. | 2.1 | 45 |
| 103 | Low-loss THz waveguide Bragg grating using a two-wire waveguide and a paper grating. , 2014, , . | | 0 |
| 104 | Linear rotary optical delay lines. Optics Express, 2014, 22, 11812. | 3.4 | 20 |
| 105 | Silk Foam Terahertz Waveguides. Advanced Optical Materials, 2014, 2, 1181-1192. | 7.3 | 26 |
| 106 | Hybrid metal-dielectric THz fibers: Design and perspectives. , 2014, , . | | 0 |
| 107 | Graded index microstructured polymer fiber for terahertz applications. , 2014, , . | | 0 |
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| 112 | Planar Porous THz Waveguides for Low-Loss Guidance and Sensing Applications. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 96-102. | 3.1 | 10 |
| 113 | Bandgap-confined large-mode waveguides for surface plasmon-polaritons. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2898. | 2.1 | 15 |
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| 116 | Photonic bandgap Bragg fiber sensors for bending/displacement detection. Applied Optics, 2013, 52, 6344. | 1.8 | 11 |
| 117 | Two-wire terahertz fibers with porous dielectric support. Optics Express, 2013, 21, 12728. | 3.4 | 35 |
| 118 | Probing terahertz metamaterials with subwavelength optical fibers. Optics Express, 2013, 21, 17195. | 3.4 | 1 |
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| 121 | Flexible fiber batteries for applications in smart textiles. Materials Research Society Symposia Proceedings, 2013, 1489, 7. | 0.1 | 3 |
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| 124 | Terahertz multiparameter sensors based on frequency selective surfaces coupled to subwavelength fibers. , 2013, , . | | 0 |
| 125 | Practical plasmonic terahertz fibers for sensing applications. , 2013, , . | | 0 |
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| 129 | Micro-Displacement Sensors Based on Plastic Photonic Bandgap Bragg Fibers. , 2013, , . | | 0 |
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| 135 | Polarization-sensitive Magnetic Field Induced Modulation of Broadband THz Pulses in Liquid. , 2012, , . | | 1 |
| 136 | Flexible, Solid Electrolyte-Based Lithium Battery Composed of LiFePO<sub>4</sub>Cathode and Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub>Anode for Applications in Smart Textiles. Journal of the Electrochemical Society, 2012, 159, A349-A356. | 2.9 | 119 |
| 137 | A woven 2D touchpad sensor and a 1D slide sensor using soft capacitor fibers. Smart Materials and Structures, 2012, 21, 015010. | 3.5 | 39 |
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| 139 | Terahertz Faraday rotation in a magnetic liquid: High magneto-optical figure of merit and broadband operation in a ferrofluid. Applied Physics Letters, 2012, 100, . | 3.3 | 56 |
| 140 | All photonic bandgap fiber spectroscopic system for detection of refractive index changes in aqueous analytes. Sensors and Actuators B: Chemical, 2012, 161, 235-243. | 7.8 | 13 |
| 141 | Resonant bio- and chemical sensors using low-refractive-index-contrast liquid-core Bragg fibers. Sensors and Actuators B: Chemical, 2012, 161, 261-268. | 7.8 | 47 |
| 142 | Label-free bacteria detection using evanescent mode of a suspended core terahertz fiber. , 2012, , . | | 1 |
| 143 | Extreme optical nonlinearities in chalcogenide glass fibers embedded with metallic and semiconductor nanowires. Applied Physics Letters, 2011, 99, 121102. | 3.3 | 9 |
| 144 | Transmission measurements of hollow-core THz Bragg fibers. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 896. | 2.1 | 107 |

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| 145 | High-refractive-index composite materials for terahertz waveguides: trade-off between index contrast and absorption loss. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 917. | 2.1 | 58 |
| 146 | Suspended core subwavelength fibers: towards practical designs for low-loss terahertz guidance. Optics Express, 2011, 19, 9127. | 3.4 | 72 |
| 147 | Polymer microstructured optical fibers for terahertz wave guiding. Optics Express, 2011, 19, B848. | 3.4 | 95 |
| 148 | Photonic bandgap plasmonic waveguides. Optics Letters, 2011, 36, 2468. | 3.3 | 7 |
| 149 | Extreme nonlinear optical enhancement in chalcogenide glass fibers with deep-subwavelength metallic nanowires. Optics Letters, 2011, 36, 2527. | 3.3 | 10 |
| 150 | Giant nonlinear optical enhancement in chalcogenide glass fibers with deep-subwavelength metallic nanowires. , 2011, , . | | 0 |
| 151 | Suspended core polymer fibers with isolated mode for terahertz guiding. , 2011, , . | | 0 |
| 152 | Liquid-core low-refractive-index-contrast Bragg fiber sensor. Applied Physics Letters, 2011, 98, 201114. | 3.3 | 35 |
| 153 | Plastic fibers for terahertz wave guiding. , 2011, , . | | 2 |
| 154 | Suspended core subwavelength fibers for practical low-loss terahertz guidance. , 2011, , . | | 0 |
| 155 | Liquid filled hollow core photonic bandgap fiber sensor. , 2011, , . | | 0 |
| 156 | Chromatic dispersion engineering in chalcogenide microporous fibers for the middle-infrared. , 2011, , . | | 0 |
| 157 | Fabrication of allâ€polymeric photonic bandgap Bragg fibers using rolling of coextruded PS/PMMA multilayer films. Polymer Engineering and Science, 2010, 50, 1122-1127. | 3.1 | 17 |
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| 159 | High refractive index titania-doped polymers for THz hollow Bragg fibers: How absorption losses limit the index contrast. , 2010, , . | | 0 |
| 160 | THz metamaterials using aligned metallic or semiconductor nanowires. , 2010, , . | | 1 |
| 161 | Soft capacitor fibers for electronic textiles. Applied Physics Letters, 2010, 97, 133305. | 3.3 | 25 |
| 162 | Color tunable photonic textiles for wearable display applications. Proceedings of SPIE, 2010, , . | 0.8 | 0 |

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| 163 | Soft capacitor fibers using conductive polymers for electronic textiles. Smart Materials and Structures, 2010, 19, 115006. | 3.5 | 37 |
| 164 | Photonic bandgap fiber bundle spectrometer. Applied Optics, 2010, 49, 4791. | 2.1 | 35 |
| 165 | Chalcogenide microporous fibers for linear and nonlinear applications in the mid-infrared. Optics Express, 2010, 18, 8647. | 3.4 | 101 |
| 166 | Spectral characterization of porous dielectric subwavelength THz ï¬bers fabricated using a microstructured molding technique. Optics Express, 2010, 18, 13813. | 3.4 | 50 |
| 167 | Composite THz materials using aligned metallic and semiconductor microwires, experiments and interpretation. Optics Express, 2010, 18, 24632. | 3.4 | 31 |
| 168 | Resonant Biochemical Sensors Based on Photonic Bandgap Waveguides and Fibers. Springer Series on Chemical Sensors and Biosensors, 2010, , 43-72. | 0.5 | 5 |
| 169 | Loss and spectral measurements of porous and non-porous subwavelength THz fibers. , 2010, , . | | 0 |
| 170 | Photonic Bandgap Fiber Bundle Spectrometer. , 2010, , . | | 0 |
| 171 | Design and Fabrication of Photonic Crystal Fibers for Plasmonic Sensing, Applications from the Visible to THz. , 2010, , . | | 0 |
| 172 | Chalcogenide Microporous Fibers for Nonlinear Applications in Mid-infrared. , 2010, , . | | 0 |
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| 174 | Analysis of the birefringence of solid-core air-silica microstructured fibers. , 2009, , . | | 4 |
| 175 | High numerical aperture polymer microstructured fiber with three super-wavelength bridges. Journal of Optics, 2009, 11, 085102. | 1.5 | 4 |
| 176 | Microstructured and Photonic Bandgap Fibers for Applications in the Resonant Bio- and Chemical Sensors. Journal of Sensors, 2009, 2009, 1-20. | 1.1 | 82 |
| 177 | Spectral, amplitude and phase sensitivity of a plasmonic gas sensor in a metallic photonic crystal slab geometry: Comparison of the near and far field phase detection strategies. Sensors and Actuators B: Chemical, 2009, 143, 76-86. | 7.8 | 17 |
| 178 | Photonic crystal fiber-based plasmonic sensors for the detection of biolayer thickness. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1550. | 2.1 | 86 |
| 179 | Fabrication and THz loss measurements of porous subwavelength fibers using a directional coupler method. Optics Express, 2009, 17, 8012. | 3.4 | 94 |
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| 183 | Colorful Photonic Band Gap fiber-based textiles. , 2009, , . | | 0 |
| 184 | Photonic Crystal Fiber and Waveguide-Based Surface Plasmon Resonance Sensors for Application in the Visible and Near-IR. Electromagnetics, 2008, 28, 198-213. | 0.7 | 53 |
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| 190 | Guided-mode resonance photonic crystal slab sensors based on bead monolayer geometry. Optics Express, 2008, 16, 17962. | 3.4 | 40 |
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| 192 | Fabrication strategies and potential applications of the â€œgreenâ€•microstructured optical fibers. Journal of Biomedical Optics, 2008, 13, 054003. | 2.6 | 7 |
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