

A M Agarwal

List of Publications by Year in descending order

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169
papers

5,067
citations

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95266

68
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170
all docs

170
docs citations

170
times ranked

4144
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Reconfigurable Parfocal Zoom Metalens. <i>Advanced Optical Materials</i> , 2022, 10, . | 7.3 | 18 |
| 2 | 1/f Noise Characteristics of Waveguide-Integrated PbTe MIR Detectors and Impact on Limit of Detection. <i>Journal of Lightwave Technology</i> , 2021, 39, 7326-7333. | 4.6 | 3 |
| 3 | Reconfigurable all-dielectric metalens with diffraction-limited performance. <i>Nature Communications</i> , 2021, 12, 1225. | 12.8 | 221 |
| 4 | Monolithic chalcogenide glass waveguide integrated interband cascaded laser. <i>Optical Materials Express</i> , 2021, 11, 2869. | 3.0 | 8 |
| 5 | High detectivity PbS _x Se _{1-x} films for mid-wavelength infrared detectors. <i>Thin Solid Films</i> , 2021, 731, 138749. | 1.8 | 2 |
| 6 | Impacts of oxygen sensitization methods on the deposition and microstructure of ternary lead chalcogenide alloys. <i>Current Applied Physics</i> , 2021, 36, 71-71. | 2.4 | 0 |
| 7 | Design of optical meta-structures with applications to beam engineering using deep learning. <i>Scientific Reports</i> , 2020, 10, 19923. | 3.3 | 13 |
| 8 | High efficiency four wave mixing and optical bistability in amorphous silicon carbide ring resonators. <i>APL Photonics</i> , 2020, 5, 076110. | 5.7 | 20 |
| 9 | Single-Element Diffraction-Limited Fisheye Metalens. <i>Nano Letters</i> , 2020, 20, 7429-7437. | 9.1 | 104 |
| 10 | Ternary Lead Chalcogenide Alloys for Mid-Infrared Detectors. <i>Journal of Electronic Materials</i> , 2020, 49, 4577-4580. | 2.2 | 4 |
| 11 | Dynamic Complex Emulsions as Amplifiers for On-Chip Photonic Cavity-Enhanced Resonators. <i>ACS Sensors</i> , 2020, 5, 1996-2002. | 7.8 | 14 |
| 12 | Mapping the design space of photonic topological states via deep learning. <i>Optics Express</i> , 2020, 28, 27893. | 3.4 | 35 |
| 13 | Real-time, in situ probing of gamma radiation damage with packaged integrated photonic chips. <i>Photonics Research</i> , 2020, 8, 186. | 7.0 | 15 |
| 14 | Leveraging Integrated Photonics for Ultrasound Sensing Applications. , 2020, , . | | 0 |
| 15 | Integrated Mid-IR Photonics for Gas and Aerosol Sensors. , 2020, , . | | 0 |
| 16 | Observation of very high order multi-photon absorption in GeSbS chalcogenide glass. <i>APL Photonics</i> , 2019, 4, 036102. | 5.7 | 25 |
| 17 | Monolithic on-chip mid-IR methane gas sensor with waveguide-integrated detector. <i>Applied Physics Letters</i> , 2019, 114, . | 3.3 | 69 |
| 18 | Ultra-flat dispersion in an integrated waveguide with five and six zero-dispersion wavelengths for mid-infrared photonics. <i>Photonics Research</i> , 2019, 7, 1279. | 7.0 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Observation of eleven-photon absorption and four-photon absorption excited photoluminescence in GeSbS chalcogenide glass. , 2019, , . | | 0 |
| 20 | High level active n^+ doping of strained germanium through co-implantation and nanosecond pulsed laser melting. Journal of Applied Physics, 2018, 123, . | 2.5 | 12 |
| 21 | Improved retention of phosphorus donors in germanium using a non-amorphizing fluorine co-implantation technique. Journal of Applied Physics, 2018, 123, 161524. | 2.5 | 6 |
| 22 | Towards on-chip mid infrared photonic aerosol spectroscopy. Applied Physics Letters, 2018, 113, 231107. | 3.3 | 17 |
| 23 | Power-efficient generation of two-octave mid-IR frequency combs in a germanium microresonator. Nanophotonics, 2018, 7, 1461-1467. | 6.0 | 16 |
| 24 | Robust cavity soliton formation with hybrid dispersion. Photonics Research, 2018, 6, 647. | 7.0 | 9 |
| 25 | Pushing the limits of CMOS optical parametric amplifiers with USRN:Si7N3 above the two-photon absorption edge. Nature Communications, 2017, 8, 13878. | 12.8 | 155 |
| 26 | The mid-IR silicon photonics sensor platform (Conference Presentation). , 2017, , . | | 0 |
| 27 | Strategies for increased donor electrical activity in germanium (opto-) electronic materials: a review. International Materials Reviews, 2017, 62, 334-347. | 19.3 | 7 |
| 28 | Kerr nonlinearity and multi-photon absorption in germanium at mid-infrared wavelengths. Applied Physics Letters, 2017, 111, . | 3.3 | 21 |
| 29 | Direct Electro spray Printing of Gradient Refractive Index Chalcogenide Glass Films. ACS Applied Materials & Interfaces, 2017, 9, 26990-26995. | 8.0 | 27 |
| 30 | Mid-infrared integrated photonics on silicon: a perspective. Nanophotonics, 2017, 7, 393-420. | 6.0 | 280 |
| 31 | Integrated photonics for infrared spectroscopic sensing. Proceedings of SPIE, 2017, , . | 0.8 | 1 |
| 32 | Positron annihilation lifetime spectroscopy (PALS) studies of gamma irradiated As ₂ Se ₃ films used in MIR integrated photonics. Journal of Non-Crystalline Solids, 2017, 455, 29-34. | 3.1 | 4 |
| 33 | On-Chip Infrared Spectroscopic Sensing: Redefining the Benefits of Scaling. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 340-349. | 2.9 | 49 |
| 34 | Nonlinear optical properties of GeSbS chalcogenide waveguides. , 2017, , . | | 1 |
| 35 | Mid-IR supercontinuum generated in low-dispersion Ge-on-Si waveguides pumped by sub-ps pulses. Optics Express, 2017, 25, 16116. | 3.4 | 28 |
| 36 | Robust generation of frequency combs in a microresonator with strong and narrowband loss. Photonics Research, 2017, 5, 552. | 7.0 | 6 |

| # | ARTICLE | IF | CITATIONS |
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| 37 | Gamma radiation effects in amorphous silicon and silicon nitride photonic devices. Optics Letters, 2017, 42, 587. | 3.3 | 29 |
| 38 | Loss reduction of silicon-on-insulator waveguides for deep mid-infrared applications. Optics Letters, 2017, 42, 3454. | 3.3 | 16 |
| 39 | Effects of High-Energy Irradiation on Silicon Oxynitride and Silicon Photonic Waveguides. , 2016, , . | | 0 |
| 40 | Mid-infrared supercontinuum generation in a low-dispersion Ge-on-Si waveguide using sub-picosecond pulses. , 2016, , . | | 0 |
| 41 | Effect of Gamma Exposure on Chalcogenide Glass Films for Microphotonic Devices. , 2016, , . | | 1 |
| 42 | On-chip chalcogenide glass waveguide-integrated mid-infrared PbTe detectors. Applied Physics Letters, 2016, 109, . | 3.3 | 38 |
| 43 | Nonlinear characterization of GeSbS chalcogenide glass waveguides. Scientific Reports, 2016, 6, 39234. | 3.3 | 50 |
| 44 | On-chip mid-infrared gas detection using chalcogenide glass waveguide. Applied Physics Letters, 2016, 108, . | 3.3 | 129 |
| 45 | Low-loss SOI waveguides at Mid-IR wavelengths (4800 nm) using the second-order TE mode. , 2016, , . | | 0 |
| 46 | Annealing bounds to prevent further Charge Transfer Inefficiency increase of the Chandra X-ray CCDs. Nuclear Instruments & Methods in Physics Research B, 2016, 389-390, 23-27. | 1.4 | 2 |
| 47 | Irradiation of on-chip chalcogenide glass waveguide mid-infrared gas sensor. , 2016, , . | | 0 |
| 48 | Suspended chalcogenide microcavities for ultra-sensitive chemical detection. , 2016, , . | | 0 |
| 49 | SiC-on-insulator on-chip photonic sensor in a radiative environment. , 2016, , . | | 2 |
| 50 | Alpha Radiation Effects on Silicon Oxynitride Waveguides. ACS Photonics, 2016, 3, 1569-1574. | 6.6 | 14 |
| 51 | Label-Free Glucose Sensing Using Chip-Scale Mid-Infrared Integrated Photonics. Advanced Optical Materials, 2016, 4, 1755-1759. | 7.3 | 50 |
| 52 | Gamma radiation effects on silicon photonic waveguides. Optics Letters, 2016, 41, 3053. | 3.3 | 17 |
| 53 | Robust generation of Kerr frequency combs with strong and localized spectral loss. , 2016, , . | | 0 |
| 54 | Parameter Space Exploration in Dispersion Engineering of Multilayer Silicon Waveguides from Near-Infrared to Mid-Infrared. Journal of Lightwave Technology, 2016, 34, 3696-3702. | 4.6 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Supercontinuum generation beyond 2 μ m in GeSbS waveguides. , 2016, , . | | 1 |
| 56 | Electrospray Deposition of Uniform Thickness Ge ₂₃ Sb ₇ S ₇₀ and As ₄₀ S ₆₀ Chalcogenide Glass Films. Journal of Visualized Experiments, 2016, , . | 0.3 | 6 |
| 57 | Mid-IR Kerr Frequency Comb Generation from 4000 to 10000 nm in a CMOS-compatible Germanium Microcavity. , 2016, , . | | 0 |
| 58 | Point defect states in Sb-doped germanium. Journal of Applied Physics, 2015, 118, 155702. | 2.5 | 13 |
| 59 | Nonlinear photonic waveguides for on-chip optical pulse compression. Laser and Photonics Reviews, 2015, 9, 294-308. | 8.7 | 28 |
| 60 | Integrated Midinfrared Laser Based on an Er-Doped Chalcogenide Microresonator. IEEE Journal of Selected Topics in Quantum Electronics, 2015, 21, 311-317. | 2.9 | 3 |
| 61 | Label-Free Water Sensors Using Hybrid Polymer- ϵ Dielectric Mid-Infrared Optical Waveguides. ACS Applied Materials & Interfaces, 2015, 7, 11189-11194. | 8.0 | 19 |
| 62 | Stability of Grafted Polymer Nanoscale Films toward Gamma Irradiation. ACS Applied Materials & Interfaces, 2015, 7, 19455-19465. | 8.0 | 16 |
| 63 | Enhanced Self-frequency Shift of Cavity Soliton in Mode-locked Octave-spanning Frequency Comb Generation. , 2014, , . | | 2 |
| 64 | Mid-Infrared Opto-nanofluidics for Label-free On-Chip Sensing. , 2014, , . | | 0 |
| 65 | Nonlinear conversion efficiency in Kerr frequency comb generation. Optics Letters, 2014, 39, 6126. | 3.3 | 125 |
| 66 | Intra-Cavity Dispersion of Microresonators and its Engineering for Octave-Spanning Kerr Frequency Comb Generation. IEEE Journal of Selected Topics in Quantum Electronics, 2014, 20, 111-117. | 2.9 | 13 |
| 67 | Low-loss aluminium nitride thin film for mid-infrared microphotronics. Laser and Photonics Reviews, 2014, 8, L23. | 8.7 | 48 |
| 68 | Two-cycle pulse generation from mode-locked Kerr frequency combs based on an integrated dispersion-flattened micro-resonator. , 2014, , . | | 1 |
| 69 | Mid-Infrared Spectrometer Using Opto-Nanofluidic Slot-Waveguide for Label-Free On-Chip Chemical Sensing. Nano Letters, 2014, 14, 231-238. | 9.1 | 79 |
| 70 | Low-Loss Aluminium Nitride Thin Film for Mid-Infrared Waveguiding. , 2014, , . | | 0 |
| 71 | Inverted-Rib Chalcogenide Waveguides by Solution Process. ACS Photonics, 2014, 1, 153-157. | 6.6 | 26 |
| 72 | Mid-infrared materials and devices on a Si platform for optical sensing. Science and Technology of Advanced Materials, 2014, 15, 014603. | 6.1 | 143 |

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|----|--|-----|-----------|
| 73 | Nonlinear Group IV photonics based on silicon and germanium: from near-infrared to mid-infrared. <i>Nanophotonics</i> , 2014, 3, 247-268. | 6.0 | 219 |
| 74 | Silicon Nitride 1 μ m–8 μ m Power Splitter for Mid-Infrared Applications. , 2014, , . | | 0 |
| 75 | Mid-Infrared Opto-nanofluidics for on-Chip Chemical Sensing. , 2014, , . | | 0 |
| 76 | Design and fabrication of a high transmissivity metal-dielectric ultraviolet band-pass filter. <i>Applied Physics Letters</i> , 2013, 102, . | 3.3 | 20 |
| 77 | Evanescently coupled mid-infrared photodetector for integrated sensing applications: Theory and design. <i>Sensors and Actuators B: Chemical</i> , 2013, 185, 195-200. | 7.8 | 12 |
| 78 | Reversed self-steepening in nonlinear pulse propagation along a silicon nano-crystal slot waveguide with engineered dispersion of nonlinearity. , 2013, , . | | 0 |
| 79 | Chip-scale Mid-Infrared chemical sensors using air-clad pedestal silicon waveguides. <i>Lab on A Chip</i> , 2013, 13, 2161. | 6.0 | 70 |
| 80 | Air-clad silicon pedestal structures for broadband mid-infrared microphotronics. <i>Optics Letters</i> , 2013, 38, 1031. | 3.3 | 55 |
| 81 | Demonstration of high-Q mid-infrared chalcogenide glass-on-silicon resonators. <i>Optics Letters</i> , 2013, 38, 1470. | 3.3 | 87 |
| 82 | Si-CMOS compatible materials and devices for mid-IR microphotronics. <i>Optical Materials Express</i> , 2013, 3, 1474. | 3.0 | 41 |
| 83 | Post-fabrication trimming of athermal silicon waveguides. <i>Optics Letters</i> , 2013, 38, 5450. | 3.3 | 34 |
| 84 | Towards ultra-subwavelength optical latches. <i>Applied Physics Letters</i> , 2013, 103, . | 3.3 | 11 |
| 85 | Generation of two-cycle pulses and octave-spanning frequency combs in a dispersion-flattened micro-resonator. <i>Optics Letters</i> , 2013, 38, 5122. | 3.3 | 70 |
| 86 | Mid-Infrared Microphotronics Using Air-clad Silicon Pedestal Structures. , 2013, , . | | 0 |
| 87 | Mid-Infrared Chemical Sensors On-a-Chip Using Air-clad Pedestal Silicon Waveguides. , 2013, , . | | 0 |
| 88 | Engineering broadband and anisotropic photoluminescence emission from rare earth doped tellurite thin film photonic crystals. <i>Optics Express</i> , 2012, 20, 2124. | 3.4 | 9 |
| 89 | Photo-induced trimming of chalcogenide-assisted silicon waveguides. <i>Optics Express</i> , 2012, 20, 15807. | 3.4 | 56 |
| 90 | Exploiting photosensitive As ₂ S ₃ chalcogenide glass in photonic integrated circuits. , 2012, , . | | 0 |

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| 91 | High capacity, photo-trimmable athermal silicon waveguides. , 2012, , . | | 0 |
| 92 | Mid-infrared As ₂ Se ₃ chalcogenide glass-on-silicon waveguides. , 2012, , . | | 1 |
| 93 | Integrated Optical Sensors. IEEE Photonics Journal, 2012, 4, 638-641. | 2.0 | 5 |
| 94 | Monolithically integrated, resonant-cavity-enhanced dual-band mid-infrared photodetector on silicon. Applied Physics Letters, 2012, 100, 211106. | 3.3 | 27 |
| 95 | On-Chip Octave-Spanning Supercontinuum in Nanostructured Silicon Waveguides Using Ultralow Pulse Energy. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1799-1806. | 2.9 | 33 |
| 96 | Photo-induced trimming of chalcogenide-assisted silicon photonic circuits. Proceedings of SPIE, 2012, , . | 0.8 | 0 |
| 97 | Engineering Spectral Variation of FSR by Tailoring Dispersion for Octave-Spanning Comb Generation Based on Micro-Resonators. , 2012, , . | | 0 |
| 98 | Low loss mid-infrared silicon waveguides by using pedestal geometry. , 2012, , . | | 0 |
| 99 | Trimming of Athermal Silicon Resonators. , 2012, , . | | 5 |
| 100 | Towards universal enrichment nanocoating for IR-ATR waveguides. Chemical Communications, 2011, 47, 9104. | 4.1 | 11 |
| 101 | Amorphous InSb and InAs _{0.3} Sb _{0.7} for long wavelength infrared detection. Proceedings of SPIE, 2011, , . | 0.8 | 1 |
| 102 | Photothermal nano-cavities for ultra-sensitive chem-bio detection. Proceedings of SPIE, 2011, , . | 0.8 | 2 |
| 103 | Room-temperature oxygen sensitization in highly textured, nanocrystalline PbTe films: A mechanistic study. Journal of Applied Physics, 2011, 110, . | 2.5 | 22 |
| 104 | Simulation of an erbium-doped chalcogenide micro-disk mid-infrared laser source. Optics Express, 2011, 19, 11951. | 3.4 | 11 |
| 105 | Photo-induced trimming of coupled ring-resonator filters and delay lines in As ₂ S ₃ chalcogenide glass. Optics Letters, 2011, 36, 4002. | 3.3 | 41 |
| 106 | Long wavelength infrared detection using amorphous InSb and InAs _{0.3} Sb _{0.7} . Journal of Crystal Growth, 2011, 334, 84-89. | 1.5 | 10 |
| 107 | Development of chipscale chalcogenide glass based infrared chemical sensors. Proceedings of SPIE, 2011, , . | 0.8 | 8 |
| 108 | Infrared Colloidal Quantum Dot Chalcogenide Films for Integrated Light Sources. , 2011, , . | | 0 |

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| 109 | Resonant cavity enhancement of polycrystalline PbTe films for IR detectors on Si-ROICs. , 2011, , . | | 3 |
| 110 | Comparison of the optical, thermal and structural properties of Ge ¹⁰⁰ Sb ¹⁰⁰ S thin films deposited using thermal evaporation and pulsed laser deposition techniques. Acta Materialia, 2011, 59, 5032-5039. | 7.9 | 68 |
| 111 | Resonant Cavity Enhancement of Polycrystalline PbTe Films for Two-Color IR detectors on Si-ROICs. , 2011, , . | | 0 |
| 112 | Ultra Broadband Mid-IR Detectors Using Multilayer Anti-reflection Coupling. , 2011, , . | | 0 |
| 113 | Erbium-Doped Chalcogenide Glass Micro-Disks as Monolithic Mid-IR Laser Sources. , 2011, , . | | 0 |
| 114 | Temperature-enhanced light emission from Er-TeO ₂ Photonic Crystals. , 2011, , . | | 0 |
| 115 | Novel Designs for On-chip Mid-Infrared Detectors Integrated with Chalcogenide Waveguides. , 2011, , . | | 2 |
| 116 | Resonant Cavity Enhanced LWIR Sensing in Polycrystalline Pb _{1-x} Sn _x Te. , 2011, , . | | 0 |
| 117 | Exploiting photosensitivity in chalcogenide-assisted integrated optics. , 2011, , . | | 1 |
| 118 | Cavity-enhanced Multispectral Photodetector on a Si Platform: Theory, Materials, and Devices. , 2010, , . | | 0 |
| 119 | Efficient light trapping structure in thin film silicon solar cells. , 2010, , . | | 2 |
| 120 | Integration of Self-Assembled Porous Alumina and Distributed Bragg Reflector for Light Trapping in Si Photovoltaic Devices. IEEE Photonics Technology Letters, 2010, 22, 1394-1396. | 2.5 | 39 |
| 121 | Resonant-cavity-enhanced mid-infrared photodetector on a silicon platform. Optics Express, 2010, 18, 12890. | 3.4 | 41 |
| 122 | Integrated chalcogenide waveguide resonators for mid-IR sensing: leveraging material properties to meet fabrication challenges. Optics Express, 2010, 18, 26728. | 3.4 | 91 |
| 123 | Cavity-enhanced multispectral photodetector using phase-tuned propagation: theory and design. Optics Letters, 2010, 35, 742. | 3.3 | 16 |
| 124 | Resonant cavity-enhanced photosensitivity in As ₂ S ₃ chalcogenide glass at 1550 nm telecommunication wavelength. Optics Letters, 2010, 35, 874. | 3.3 | 38 |
| 125 | Optical loss reduction in high-index-contrast chalcogenide glass waveguides via thermal reflow. Optics Express, 2010, 18, 1469. | 3.4 | 63 |
| 126 | PROGRESS ON THE FABRICATION OF ON-CHIP, INTEGRATED CHALCOGENIDE GLASS (CHG)-BASED SENSORS. Journal of Nonlinear Optical Physics and Materials, 2010, 19, 75-99. | 1.8 | 43 |

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| 127 | Chalcogenide Glasses and their Photosensitivity: Engineered Materials for Device Applications. , 2010, , | | 1 |
| 128 | Cavity-Enhanced Photosensitivity in As ₂ S ₃ Chalcogenide glass. , 2010, , . | | 0 |
| 129 | Towards on-chip, integrated chalcogenide glass based biochemical sensors. , 2010, , . | | 0 |
| 130 | Cavity-enhanced photosensitivity in chalcogenide glass. , 2009, , . | | 0 |
| 131 | Design guidelines for optical resonator biochemical sensors. , 2009, , . | | 2 |
| 132 | Spectral selective mid-infrared detector on a silicon platform. , 2009, , . | | 5 |
| 133 | Development of novel integrated bio/chemical sensor systems using chalcogenide glass materials. International Journal of Nanotechnology, 2009, 6, 799. | 0.2 | 8 |
| 134 | Cavity-Enhanced IR Absorption in Planar Chalcogenide Glass Microdisk Resonators: Experiment and Analysis. Journal of Lightwave Technology, 2009, 27, 5240-5245. | 4.6 | 43 |
| 135 | Design guidelines for optical resonator biochemical sensors. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1032. | 2.1 | 157 |
| 136 | Integrating optics and micro-fluidic channels using femtosecond laser irradiation. , 2009, , . | | 2 |
| 137 | Low-cost, Deterministic Quasi-periodic Photonic Structures for light trapping in thin film silicon solar cells. , 2009, , . | | 3 |
| 138 | Progress on the Fabrication of On-Chip, Integrated Chalcogenide Glass (ChG)-based Sensors. , 2009, , . | | 1 |
| 139 | Optical loss reduction in HIC chalcogenide glass waveguides via thermal reflow. , 2009, , . | | 2 |
| 140 | Exploration of waveguide fabrication from thermally evaporated Ge ₂ Sb ₂ S glass films. Optical Materials, 2008, 30, 1560-1566. | 3.6 | 32 |
| 141 | Structural, electrical, and optical properties of thermally evaporated nanocrystalline PbTe films. Journal of Applied Physics, 2008, 104, 053707. | 2.5 | 47 |
| 142 | Demonstration of chalcogenide glass racetrack microresonators. Optics Letters, 2008, 33, 761. | 3.3 | 55 |
| 143 | Planar waveguide-coupled, high-index-contrast, high-Q resonators in chalcogenide glass for sensing. Optics Letters, 2008, 33, 2500. | 3.3 | 107 |
| 144 | Femtosecond laser photo-response of Ge ₂₃ Sb ₇ S ₇₀ films. Optics Express, 2008, 16, 20081. | 3.4 | 26 |

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| 145 | Integrated HIC high-Q resonators in chalcogenide glass. , 2008, , . | | 0 |
| 146 | Microstructured chalcogenide glasses using femtosecond laser irradiation or photolithography. , 2008, , . | | 0 |
| 147 | One-dimensional Photonic Crystal and Photoconductive PbTe Film for Low Cost Resonant-cavity-enhanced Mid-infrared Photodetector. , 2008, , . | | 2 |
| 148 | Low-loss integrated planar chalcogenide waveguides for microfluidic chemical sensing. , 2007, , . | | 9 |
| 149 | High performance asymmetric graded index coupler with integrated lens for high index waveguides. Applied Physics Letters, 2007, 90, 201116. | 3.3 | 15 |
| 150 | Fabrication and testing of planar chalcogenide waveguide integrated microfluidic sensor. Optics Express, 2007, 15, 2307. | 3.4 | 159 |
| 151 | Si-CMOS-compatible lift-off fabrication of low-loss planar chalcogenide waveguides. Optics Express, 2007, 15, 11798. | 3.4 | 100 |
| 152 | Low-loss high-index-contrast planar waveguides with graded-index cladding layers. Optics Express, 2007, 15, 14566. | 3.4 | 28 |
| 153 | Quantifying the Performance of Proteinâ€Resisting Surfaces at Ultraâ€Low Protein Coverages using Kinesin Motor Proteins as Probes. Advanced Materials, 2007, 19, 3171-3176. | 21.0 | 48 |
| 154 | Asymmetric GRIN Lensed Single Mode Fiber-to-Waveguide Coupler. , 2006, , . | | 0 |
| 155 | Multispectral pixel performance using a one-dimensional photonic crystal design. Applied Physics Letters, 2006, 89, 223522. | 3.3 | 9 |
| 156 | Correlation between leakage current density and threading dislocation density in SiGe p-i-n diodes grown on relaxed graded buffer layers. Applied Physics Letters, 2001, 78, 541-543. | 3.3 | 157 |
| 157 | Er ³⁺ â€photon interaction. Journal of Luminescence, 2000, 87-89, 323-325. | 3.1 | 4 |
| 158 | Optical transmission losses in polycrystalline silicon strip waveguides: Effects of waveguide dimensions, thermal treatment, hydrogen passivation, and wavelength. Journal of Electronic Materials, 2000, 29, 1380-1386. | 2.2 | 86 |
| 159 | Er-doped polycrystalline silicon for light emission at $\lambda = 1.54 \mu\text{m}$. Journal of Electronic Materials, 2000, 29, 973-978. | 2.2 | 1 |
| 160 | Effect of size and roughness on light transmission in a Si/SiO ₂ waveguide: Experiments and model. Applied Physics Letters, 2000, 77, 1617-1619. | 3.3 | 405 |
| 161 | THE EXPERIMENTAL AND THEORETICAL STUDY OF SCATTERING LOSSES IN Si/SiO ₂ WAVEGUIDES. , 2000, , . | | 0 |
| 162 | Pulsed Electrode Surfacing of Steel with TiC Coating: Microstructure and Wear Properties. Journal of Materials Engineering and Performance, 1999, 8, 479-486. | 2.5 | 32 |

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| 163 | Surface Smoothing of Polycrystalline Si Waveguides With Gas-Cluster Ion Beams. Materials Research Society Symposia Proceedings, 1999, 597, 51. | 0.1 | 0 |
| 164 | Materials For Monolithic Silicon Microphotronics. Materials Research Society Symposia Proceedings, 1997, 486, 45. | 0.1 | 12 |
| 165 | Low-loss polycrystalline silicon waveguides for silicon photonics. Journal of Applied Physics, 1996, 80, 6120-6123. | 2.5 | 66 |
| 166 | Interstitial Defect Reactions In Silicon. Materials Research Society Symposia Proceedings, 1996, 442, 231. | 0.1 | 7 |
| 167 | Losses in polycrystalline silicon waveguides. Applied Physics Letters, 1996, 68, 2052-2054. | 3.3 | 51 |
| 168 | Polysilicon Waveguides for Silicon Photonics. Materials Research Society Symposia Proceedings, 1995, 403, 327. | 0.1 | 0 |
| 169 | Compact 3 dB single mode fiber-to-waveguide coupler. , 0, , . | | 1 |