Juejun Hu

List of Publications by Year
in descending order

204 papers	8,988 citations	36303 51 h-index	45317 90 g-index
208 all docs	208 docs citations	208 times ranked	7629 citing authors

#	Article	IF	Citations
1	Deep Convolutional Neural Networks to Predict Mutual Coupling Effects in Metasurfaces. Advanced Optical Materials, 2022, 10, 2102113.	7.3	28
2	Dielectric spectroscopic investigation of reversible photo-induced changes in amorphous Ge₂Sb₂Se₅ thin films. Journal of Applied Physics, 2022, 131, 075102.	2.5	1
3	Are phase change materials ideal for programmable photonics?: opinion. Optical Materials Express, 2022, 12, 2368.	3.0	16
4	Ultra-broadband, high-efficiency, and wafer-scale fiber-to-chip coupling using free-form micro-optical reflectors. , 2022, , .		1
5	Understanding wide field-of-view metalenses. , 2022, , .		0
6	Phase change materials: the 'silicon' for analog photonic computing?. , 2022, , .		0
7	Endurance of chalcogenide optical phase change materials: a review. Optical Materials Express, 2022, 12, 2145.	3.0	29
8	Deep neural network enabled active metasurface embedded design. Nanophotonics, 2022, 11, 4149-4158.	6.0	18
9	Reconfigurable Parfocal Zoom Metalens. Advanced Optical Materials, 2022, 10, .	7.3	18
10	Ultra-low-energy programmable non-volatile silicon photonics based on phase-change materials with graphene heaters. Nature Nanotechnology, 2022, 17, 842-848.	31.5	94
11	Waveguide-integrated mid-infrared photodetection using graphene on a scalable chalcogenide glass platform. Nature Communications, 2022, 13, .	12.8	12
12	Multiâ€Level Electroâ€Thermal Switching of Optical Phaseâ€Change Materials Using Graphene. Advanced Photonics Research, 2021, 2, 2000034.	3.6	75
13	Mid-Infrared Metasurface Based on a Phase-Change Material for Enhanced Third-Harmonic Generation. , 2021, , .		0
14	Multifunctional Metasurface Design with a Generative Adversarial Network. Advanced Optical Materials, 2021, 9, 2001433.	7.3	78
15	Integrated Nonvolatile Phase-shifter Based on Electrically Reconfigurable Low-loss Phase-change Materials. , 2021, , .		4
16	Nonlinear Midâ€Infrared Metasurface based on a Phaseâ€Change Material. Laser and Photonics Reviews, 2021, 15, 2000373.	8.7	25
17	Reconfigurable all-dielectric metalens with diffraction-limited performance. Nature Communications, 2021, 12, 1225.	12.8	221
18	Enhancing SiN waveguide optical nonlinearity via hybrid GaS integration. Journal of Optics (United) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.2	6

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19	On-chip optical tweezers based on freeform optics. Optica, 2021, 8, 409.	9.3	37
20	Multifunctional Metasurface Design with a Generative Adversarial Network (Advanced Optical) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70:	7.3	1
21	Electrically reconfigurable non-volatile metasurface using low-loss optical phase-change material. Nature Nanotechnology, 2021, 16, 661-666.	31.5	298
22	2020 Optical Materials Express Emerging Researcher Best Paper Prize: editorial. Optical Materials Express, 2021, 11, 1441.	3.0	0
23	Large-area optical metasurface fabrication using nanostencil lithography. Optics Letters, 2021, 46, 2324.	3.3	8
24	Myths and truths about optical phase change materials: A perspective. Applied Physics Letters, 2021, 118, .	3.3	76
25	Magneto-optical properties of InSb for infrared spectral filtering. Journal of Applied Physics, 2021, 129, 203104.	2.5	2
26	Transient Tap Couplers for Wafer-Level Photonic Testing Based on Optical Phase Change Materials. ACS Photonics, 2021, 8, 1903-1908.	6.6	24
27	Reconfigurable Mid-infrared Photonics. , 2021, , .		1
28	Topology optimization of surface-enhanced Raman scattering substrates. Applied Physics Letters, 2021, 119, .	3.3	6
29	Electrically-switchable foundry-processed phase change photonic devices. , 2021, , .		5
30	Monolithic chalcogenide glass waveguide integrated interband cascaded laser. Optical Materials Express, 2021, 11, 2869.	3.0	8
31	A Deep Learning Approach to Explore the Mutual Coupling Effects in Metasurfaces. , 2021, , .		1
32	Externally Pumped Photonic Chipâ€Based Ultrafast Raman Soliton Source. Laser and Photonics Reviews, 2021, 15, 2000301.	8.7	11
33	Wide Field-of-view Achromatic Metalenses. , 2021, , .		1
34	Design of broadband and wide field-of-view metalenses. Optics Letters, 2021, 46, 5735-5738.	3.3	18
35	On-chip Integrated Magneto-Optical Nonreciprocal Photonic Devices. , 2021, , .		0
36	Phase change reconfigurable nanophotonics on a foundry-processed SOI platform. , 2021, , .		0

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37	All-optical computing based on convolutional neural networks. Opto-Electronic Advances, 2021, 4, 200060-200060.	13.3	21
38	Ge2Sb2Se4Te1 Metasurface for Enhancing Third-Harmonic Generation in the Mid-Infrared. , 2021, , .		0
39	Electrically Reconfigurable Nonvolatile Metasurface based on Phase Change Materials. , 2021, , .		0
40	Strong Purcell enhancement at telecom wavelengths afforded by spinel Fe3O4 nanocrystals with size-tunable plasmonic properties. Nanoscale Horizons, 2021, , .	8.0	2
41	Suppressed electronic contribution in thermal conductivity of Ge2Sb2Se4Te. Nature Communications, 2021, 12, 7187.	12.8	23
42	Reconfigurable Frequency-Selective Resonance Splitting in Chalcogenide Microring Resonators. ACS Photonics, 2020, 7, 499-511.	6.6	19
43	Flexible and Stretchable Photonics: The Next Stretch of Opportunities. ACS Photonics, 2020, 7, 2618-2635.	6.6	49
44	Single-Element Diffraction-Limited Fisheye Metalens. Nano Letters, 2020, 20, 7429-7437.	9.1	104
45	Low-Voltage, Coupled Multiple Quantum Well Electroreflective Modulators Towards Ultralow Power Inter-Chip Optical Interconnects. Journal of Lightwave Technology, 2020, 38, 3414-3421.	4.6	8
46	Spatial tailoring of the refractive index in infrared glass-ceramic films enabled by direct laser writing. Optics and Laser Technology, 2020, 126, 106058.	4.6	9
47	Optical Free-Form Couplers for High-density Integrated Photonics (OFFCHIP): A Universal Optical Interface. Journal of Lightwave Technology, 2020, 38, 3358-3365.	4.6	22
48	Compact and Fabrication-Tolerant Waveguide Bends Based on Quadratic Reflectors. Journal of Lightwave Technology, 2020, 38, 4368-4373.	4.6	12
49	High spatial and temporal resolution synthetic aperture phase microscopy. Advanced Photonics, 2020, 2, .	11.8	35
50	All-dielectric Metasurface Designs Enabled by Deep Neural Networks. , 2020, , .		7
51	A packaged, fiber-coupled waveguide-enhanced Raman spectroscopic sensor. Optics Express, 2020, 28, 14963.	3.4	25
52	Deep learning modeling approach for metasurfaces with high degrees of freedom. Optics Express, 2020, 28, 31932.	3.4	73
53	High-performance graphene-integrated thermo-optic switch: design and experimental validation [Invited]. Optical Materials Express, 2020, 10, 387.	3.0	13
54	3D integrated photonics platform with deterministic geometry control. Photonics Research, 2020, 8, 194.	7.0	10

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55	Real-time, in situ probing of gamma radiation damage with packaged integrated photonic chips. Photonics Research, 2020, 8, 186.	7.0	15
56	Design for quality: reconfigurable flat optics based on active metasurfaces. Nanophotonics, 2020, 9, 3505-3534.	6.0	87
57	Artificial Synapse with Mnemonic Functionality using GSST-based Photonic Integrated Memory. , 2020, , .		21
58	2019 Optical Materials Express Emerging Researcher Best Paper Prize: editorial. Optical Materials Express, 2020, 10, 1392.	3.0	0
59	What makes the best chip-scale photonic sensor?. , 2020, , .		0
60	Optical phase-change materials (O-PCMs) for reconfigurable photonics. , 2020, , .		1
61	Tellurene: A Multifunctional Material for Midinfrared Optoelectronics. ACS Photonics, 2019, 6, 1632-1638.	6.6	60
62	Dysprosium substituted Ce:YIG thin films with perpendicular magnetic anisotropy for silicon integrated optical isolator applications. APL Materials, 2019, 7, .	5.1	30
63	High-Performance Single-Mode Polymer Waveguide Devices for Chip-Scale Optical Interconnects. , 2019, , .		3
64	Broadband transparent optical phase change materials for high-performance nonvolatile photonics. Nature Communications, 2019, 10, 4279.	12.8	349
65	Waterproof molecular monolayers stabilize 2D materials. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20844-20849.	7.1	32
66	Broadband Electro-Optical Crossbar Switches Using Low-Loss Ge₂Sb₂Se₄Te₁ Phase Change Material. Journal of Lightwave Technology, 2019, 37, 3183-3191.	4.6	69
67	Chalcogenide glass metasurfaces from fluid instabilities. Nature Nanotechnology, 2019, 14, 309-311.	31.5	3
68	Micro-Prism Spectrum Splitting Optics for Lateral-Arrayed Multi Junction Micro CPV. , 2019, , .		1
69	A Deep Learning Approach for Objective-Driven All-Dielectric Metasurface Design. ACS Photonics, 2019, 6, 3196-3207.	6.6	212
70	Low loss, flexible single-mode polymer photonics. Optics Express, 2019, 27, 11152.	3.4	41
71	Broadband couplers for hybrid silicon-chalcogenide glass photonic integrated circuits. Optics Express, 2019, 27, 13781.	3.4	14
72	Nonlinear third order silicon photonics enabled by dispersion and subwavelength engineering. , 2019, , .		1

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73	Compact spectrum splitter for laterally arrayed multi-junction concentrator photovoltaic modules. Optics Letters, 2019, 44, 3274.	3.3	7
74	Engineering third-order optical nonlinearities in hybrid chalcogenide-on-silicon platform. Optics Letters, 2019, 44, 5009.	3.3	27
75	Understanding aging in chalcogenide glass thin films using precision resonant cavity refractometry. Optical Materials Express, 2019, 9, 2252.	3.0	12
76	Monolithic integration of broadband optical isolators for polarization-diverse silicon photonics. Optica, 2019, 6, 473.	9.3	132
77	Chip-scale Digital Fourier Transform Spectroscopy. , 2019, , .		0
78	Glass in Integrated Photonics. Springer Handbooks, 2019, , 1441-1481.	0.6	1
79	Single-layer Planar Metasurface Lens with >170Â° Field of View. , 2019, , .		3
80	Performance Optimization Strategies for Nanophotonic Digital Fourier Transform Spectrometers. , 2019, , .		0
81	Feature issue introduction: advanced computational nanophotonics: from materials to devices. Optical Materials Express, 2019, 9, 1967.	3.0	0
82	Reshaping light: reconfigurable photonics enabled by broadband low-loss optical phase change materials. , 2019, , .		3
83	2018 Optical Materials Express Emerging Researcher Best Paper Prize: editorial. Optical Materials Express, 2019, 9, 2426.	3.0	0
84	Chalcogenide glass waveguide-integrated black phosphorus mid-infrared photodetectors. Journal of Optics (United Kingdom), 2018, 20, 044004.	2.2	40
85	Ultra-thin high-efficiency mid-infrared transmissive Huygens meta-optics. Nature Communications, 2018, 9, 1481.	12.8	126
86	Monolithically integrated stretchable photonics. Light: Science and Applications, 2018, 7, 17138-17138.	16.6	94
87	New Candidate Multicomponent Chalcogenide Glasses for Supercontinuum Generation. Applied Sciences (Switzerland), 2018, 8, 2082.	2.5	39
88	Passive directional sub-ambient daytime radiative cooling. Nature Communications, 2018, 9, 5001.	12.8	179
89	Monolithic On-chip Magneto-optical Isolator with 3 dB Insertion Loss and 40 dB Isolation Ratio. ACS Photonics, 2018, 5, 5010-5016.	6.6	52
90	High-performance and scalable on-chip digital Fourier transform spectroscopy. Nature Communications, 2018, 9, 4405.	12.8	173

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91	Feature issue introduction: Optical Phase Change Materials. Optical Materials Express, 2018, 8, 2967.	3.0	2
92	Ultra-thin, high-efficiency mid-infrared Huygens metasurface optics. , 2018, , .		1
93	New Journal prize to recognize the best paper from an emerging researcher: editorial. Optical Materials Express, 2018, 8, 1695.	3.0	2
94	Feature issue introduction: mid-infrared optical materials and their device applications. Optical Materials Express, 2018, 8, 2026.	3.0	15
95	High-performance flexible waveguide-integrated photodetectors. Optica, 2018, 5, 44.	9.3	54
96	Chip-scale broadband spectroscopic chemical sensing using an integrated supercontinuum source in a chalcogenide glass waveguide. Photonics Research, 2018, 6, 506.	7.0	78
97	Nonlinear optical properties of integrated GeSbS chalcogenide waveguides. Photonics Research, 2018, 6, B37.	7.0	39
98	Broadband nonvolatile photonic switching based on optical phase change materials: beyond the classical figure-of-merit. Optics Letters, 2018, 43, 94.	3.3	222
99	Wafer integrated microâ€scale concentrating photovoltaics. Progress in Photovoltaics: Research and Applications, 2018, 26, 651-658.	8.1	14
100	Are slot and sub-wavelength grating waveguides better than strip waveguides for sensing?. Optica, 2018, 5, 1046.	9.3	105
101	Monolithic magneto-optical oxide thin films for on-chip optical isolation. MRS Bulletin, 2018, 43, 413-418.	3.5	13
102	High-resolution on-chip digital Fourier transform spectroscopy. , 2018, , .		3
103	METAL-INSULATOR TRANSITION PROPERTY OF HF-DOPED VO2(M1) FILMS AND ITS APPLICATION FOR RECONFIGURABLE SILICON PHOTONIC DEVICE. Progress in Electromagnetics Research Letters, 2018, 76, 133-139.	0.7	0
104	A new twist on glass: A brittle material enabling flexible integrated photonics. International Journal of Applied Glass Science, 2017, 8, 61-68.	2.0	27
105	Ultrahigh Figure-of-Merit in Metalâ€"Insulatorâ€"Metal Magnetoplasmonic Sensors Using Low Loss Magneto-optical Oxide Thin Films. ACS Photonics, 2017, 4, 1403-1412.	6.6	45
106	The role of ceramic and glass science research in meeting societal challenges: Report from an <scp>NSF</scp>â€sponsored workshop. Journal of the American Ceramic Society, 2017, 100, 1777-1803.	3.8	23
107	Chalcogenide glass-on-graphene photonics. Nature Photonics, 2017, 11, 798-805.	31.4	190
108	Direct Electrospray Printing of Gradient Refractive Index Chalcogenide Glass Films. ACS Applied Materials & Interfaces, 2017, 9, 26990-26995.	8.0	27

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109	(Invited) Mechanically Flexible Integrated Photonic Systems for Sensing and Communications. ECS Transactions, 2017, 77, 37-46.	0.5	1
110	Mid-infrared integrated photonics on silicon: a perspective. Nanophotonics, 2017, 7, 393-420.	6.0	280
111	Integrated photonics for infrared spectroscopic sensing. Proceedings of SPIE, 2017, , .	0.8	1
112	Positron annihilation lifetime spectroscopy (PALS) studies of gamma irradiated As2Se3 films used in MIR integrated photonics. Journal of Non-Crystalline Solids, 2017, 455, 29-34.	3.1	4
113	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
114	Linear and third order nonlinear optical properties of GeSbS chalcogenide integrated waveguides. , 2017, , .		0
115	Gamma radiation effects in amorphous silicon and silicon nitride photonic devices. Optics Letters, 2017, 42, 587.	3.3	29
116	Broadband Transparent Optical Phase Change Materials. , 2017, , .		25
117	Effect of Gamma Exposure on Chalcogenide Glass Films for Microphotonic Devices. , 2016, , .		1
118	Irradiation of on-chip chalcogenide glass waveguide mid-infrared gas sensor. , 2016, , .		0
119	Suspended chalcogenide microcavities for ultra-sensitive chemical detection. , 2016, , .		0
120	SiC-on-insulator on-chip photonic sensor in a radiative environment. , 2016, , .		2
121	Angle-selective perfect absorption with two-dimensional materials. Light: Science and Applications, 2016, 5, e16052-e16052.	16.6	94
122	Microstructure, optical properties, and optical resonators of Hf_1-xTi_xO_2 amorphous thin films. Optical Materials Express, 2016, 6, 1871.	3.0	5
123	Low-loss photonic device in Geâ€“Sbâ€“S chalcogenide glass. Optics Letters, 2016, 41, 3090.	3.3	65
124	Gradient Polymer Nanofoams for Encrypted Recording of Chemical Events. ACS Nano, 2016, 10, 10716-10725.	14.6	11
125	Electrospray Deposition of Uniform Thickness Ge₂₃Sb₇S₇₀ and As₄₀S₆₀ Chalcogenide Glass Films. Journal of Visualized Experiments, 2016, , .	0.3	6
126	Foldable and Cytocompatible Sol-gel TiO2 Photonics. Scientific Reports, 2015, 5, 13832.	3.3	36

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127	Impact of Stoichiometry on Structural and Optical Properties of Sputter Deposited Multicomponent Tellurite Glass Films. Journal of the American Ceramic Society, 2015, 98, 1731-1738.	3.8	15
128	Single-Step Deposition of Cerium-Substituted Yttrium Iron Garnet for Monolithic On-Chip Optical Isolation. ACS Photonics, 2015, 2, 856-863.	6.6	92
129	Diffractive broadband coupling into high-Q resonant cavities. Optics Letters, 2015, 40, 2377.	3.3	2
130	Substrate-blind photonic integration. , 2015, , .		0
131	Highâ€Performance, Highâ€Indexâ€Contrast Chalcogenide Glass Photonics on Silicon and Unconventional Nonâ€planar Substrates. Advanced Optical Materials, 2014, 2, 478-486.	7.3	54
132	High-Q Mid-Infrared Chalcogenide Glass Resonators for Chemical Sensing. , 2014, , .		1
133	Chip-to-chip optical interconnects based on flexible integrated photonics. Proceedings of SPIE, 2014, , .	0.8	1
134	Planar chalcogenide glass mid-infrared photonics. , 2014, , .		0
135	Demonstration of high-performance, sub-micron chalcogenide glass photonic devices by thermal nanoimprint. Proceedings of SPIE, 2014, , .	0.8	0
136	Solution Processing and Resistâ€Free Nanoimprint Fabrication of Thin Film Chalcogenide Glass Devices: Inorganicâ€"Organic Hybrid Photonic Integration. Advanced Optical Materials, 2014, 2, 759-764.	7.3	47
137	ZrO2-TiO2 Thin Films and Resonators for Mid-Infrared Integrated Photonics. , 2014, , .		0
138	Integrated flexible chalcogenide glass photonic devices. Nature Photonics, 2014, 8, 643-649.	31.4	291
139	Mid-infrared materials and devices on a Si platform for optical sensing. Science and Technology of Advanced Materials, 2014, 15, 014603.	6.1	143
140	Heterogeneously Integrated Silicon Photonics for the Mid-Infrared and Spectroscopic Sensing. ACS Nano, 2014, 8, 6955-6961.	14.6	148
141	Substrate-blind photonic integration based on high-index glass materials. , 2014, , .		1
142	Evanescently coupled mid-infrared photodetector for integrated sensing applications: Theory and design. Sensors and Actuators B: Chemical, 2013, 185, 195-200.	7.8	12
143	Chalcogenide glass planar photonics: from mid-IR sensing to 3-D flexible substrate integration. , 2013, , .		2
144	Thermal nanoimprint fabrication of chalcogenide glass waveguide resonators on nonconventional plastic substrates. , 2013, , .		0

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145	A Fully-Integrated Flexible Photonic Platform for Chip-to-Chip Optical Interconnects. Journal of Lightwave Technology, 2013, 31, 4080-4086.	4.6	57
146	Breaking the energy-bandwidth limit of electro-optic modulators: Theory and a device proposal. , 2013, , .		0
147	Chip-scale Mid-Infrared chemical sensors using air-clad pedestal silicon waveguides. Lab on A Chip, 2013, 13, 2161.	6.0	70
148	Cavity-enhanced mid-infrared on-chip chemical sensing using high-Q chalcogenide glass resonators. , 2013, , .		0
149	Demonstration of high-Q mid-infrared chalcogenide glass-on-silicon resonators. Optics Letters, 2013, 38, 1470.	3.3	87
150	Si-CMOS compatible materials and devices for mid-IR microphotonics. Optical Materials Express, 2013, 3, 1474.	3.0	41
151	ZrO_2-TiO_2 thin films: a new material system for mid-infrared integrated photonics. Optical Materials Express, 2013, 3, 1537.	3.0	30
152	Demonstration of mid-infrared waveguide photonic crystal cavities. Optics Letters, 2013, 38, 2779.	3.3	32
153	Magneto-Optical Thin Films for On-Chip Monolithic Integration of Non-Reciprocal Photonic Devices. Materials, 2013, 6, 5094-5117.	2.9	82
154	Breaking the Energy-Bandwidth Limit of Electrooptic Modulators: Theory and a Device Proposal. Journal of Lightwave Technology, 2013, 31, 4029-4036.	4.6	30
155	Feature issue introduction: mid-IR photonic materials. Optical Materials Express, 2013, 3, 1571.	3.0	51
156	A fully-integrated flexible photonic platform for chip-to-chip optical interconnects. , 2013, , .		0
157	Flexible integrated photonics: where materials, mechanics and optics meet [Invited]. Optical Materials Express, 2013, 3, 1313.	3.0	153
158	3-D Flexible Glass Photonics. , 2013, , .		0
159	Thermal nanoimprint fabrication of chalcogenide glass waveguide resonators. , 2013, , .		0
160	Engineering broadband and anisotropic photoluminescence emission from rare earth doped tellurite thin film photonic crystals. Optics Express, 2012, 20, 2124.	3.4	9
161	Light trapping limits in plasmonic solar cells: an analytical investigation: errata. Optics Express, 2012, 20, 24699.	3.4	1
162	Double resonance 1-D photonic crystal cavities for single-molecule mid-infrared photothermal spectroscopy: theory and design. Optics Letters, 2012, 37, 1304.	3.3	44

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163	Exploiting photosensitive As<inf>2</inf>S<inf>3</inf> chalcogenide glass in photonic integrated circuits. , 2012, , .		0
164	Mid-infrared As<inf>2</inf>Se<inf>3</inf> chalcogenide glass-on-silicon waveguides. , 2012, , .		1
165	Integrated Optical Sensors. IEEE Photonics Journal, 2012, 4, 638-641.	2.0	5
166	Monolithically integrated, resonant-cavity-enhanced dual-band mid-infrared photodetector on silicon. Applied Physics Letters, 2012, 100, 211106.	3.3	27
167	Effect of annealing conditions on the physio-chemical properties of spin-coated As_2Se_3 chalcogenide glass films. Optical Materials Express, 2012, 2, 1723.	3.0	73
168	Double resonance 1-D glass-on-silicon photonic crystal cavities for single-molecule mid-infrared photothermal spectroscopy: Theory and design. , 2012, , .		0
169	Chalcogenide glass based integrated photonics. Proceedings of SPIE, 2012, , .	0.8	1
170	Towards universal enrichment nanocoating for IR-ATR waveguides. Chemical Communications, 2011, 47, 9104.	4.1	11
171	Photothermal nano-cavities for ultra-sensitive chem-bio detection. Proceedings of SPIE, 2011, , .	0.8	2
172	Room-temperature oxygen sensitization in highly textured, nanocrystalline PbTe films: A mechanistic study. Journal of Applied Physics, 2011, 110, .	2.5	22
173	Simulation of an erbium-doped chalcogenide micro-disk mid-infrared laser source. Optics Express, 2011, 19, 11951.	3.4	11
174	Photo-induced trimming of coupled ring-resonator filters and delay lines in As_2S_3 chalcogenide glass. Optics Letters, 2011, 36, 4002.	3.3	41
175	On-chip optical isolation in monolithically integrated non-reciprocal optical resonators. Nature Photonics, 2011, 5, 758-762.	31.4	766
176	Development of chipscale chalcogenide glass based infrared chemical sensors. Proceedings of SPIE, 2011, , .	0.8	8
177	Infrared Colloidal Quantum Dot Chalcogenide Films for Integrated Light Sources. , 2011, , .		0
178	Ultracompact, broadband slot waveguide polarization splitter. Applied Physics Letters, 2011, 98, .	3.3	120
179	Monolithic integration of chalcogenide glass/iron garnet waveguides and resonators for on-chip nonreciprocal photonic devices. Proceedings of SPIE, 2011, , .	0.8	26
180	Erbium-Doped Chalcogenide Glass Micro-Disks as Monolithic Mid-IR Laser Sources. , 2011, , .		0

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181	Fabrication and characterization of As 2 S 3 /Y 3 Fe 5 O 12 and Y 3 Fe 5 O 12 /SOI strip-loaded waveguides for integrated optical isolator applications. , 2010, , .		11
182	Resonant-cavity-enhanced mid-infrared photodetector on a silicon platform. Optics Express, 2010, 18, 12890.	3.4	41
183	Athermal operation of Silicon waveguides: spectral, second order and footprint dependencies. Optics Express, 2010, 18, 17631.	3.4	101
184	Ultra-sensitive chemical vapor detection using micro-cavity photothermal spectroscopy. Optics Express, 2010, 18, 22174.	3.4	51
185	Integrated chalcogenide waveguide resonators for mid-IR sensing: leveraging material properties to meet fabrication challenges. Optics Express, 2010, 18, 26728.	3.4	91
186	Cavity-enhanced multispectral photodetector using phase-tuned propagation: theory and design. Optics Letters, 2010, 35, 742.	3.3	16
187	Resonant cavity-enhanced photosensitivity in As_2S_3 chalcogenide glass at 1550 nm telecommunication wavelength. Optics Letters, 2010, 35, 874.	3.3	38
188	Optical loss reduction in high-index-contrast chalcogenide glass waveguides via thermal reflow. Optics Express, 2010, 18, 1469.	3.4	63
189	Cavity-Enhanced Photosensitivity in As2S3 Chalcogenide glass. , 2010, , .		0
190	Towards on-chip, integrated chalcogenide glass based biochemical sensors. , 2010, , .		0
191	Cavity-enhanced photosensitivity in chalcogenide glass. , 2009, , .		0
192	Development of novel integrated bio/chemical sensor systems using chalcogenide glass materials. International Journal of Nanotechnology, 2009, 6, 799.	0.2	8
193	Design of nanoslotted photonic crystal waveguide cavities for single nanoparticle trapping and detection. Optics Letters, 2009, 34, 3451.	3.3	57
194	Cavity-Enhanced IR Absorption in Planar Chalcogenide Glass Microdisk Resonators: Experiment and Analysis. Journal of Lightwave Technology, 2009, 27, 5240-5245.	4.6	43
195	Design guidelines for optical resonator biochemical sensors. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1032.	2.1	157
196	Exploration of waveguide fabrication from thermally evaporated Geâ€“Sbâ€“S glass films. Optical Materials, 2008, 30, 1560-1566.	3.6	32
197	Structural, electrical, and optical properties of thermally evaporated nanocrystalline PbTe films. Journal of Applied Physics, 2008, 104, 053707.	2.5	47
198	Demonstration of chalcogenide glass racetrack microresonators. Optics Letters, 2008, 33, 761.	3.3	55

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199	Planar waveguide-coupled, high-index-contrast, high-Q resonators in chalcogenide glass for sensing. Optics Letters, 2008, 33, 2500.	3.3	107
200	Femtosecond laser photo-response of Ge_23Sb_7S_70 films. Optics Express, 2008, 16, 20081.	3.4	26
201	Fabrication and testing of planar chalcogenide waveguide integrated microfluidic sensor. Optics Express, 2007, 15, 2307.	3.4	159
202	Si-CMOS-compatible lift-off fabrication of low-loss planar chalcogenide waveguides. Optics Express, 2007, 15, 11798.	3.4	100
203	Low-loss high-index-contrast planar waveguides with graded-index cladding layers. Optics Express, 2007, 15, 14566.	3.4	28
204	Metal-Particle-Induced, Highly Localized Site-Specific Etching of Si and Formation of Single-Crystalline Si Nanowires in Aqueous Fluoride Solution. Chemistry - A European Journal, 2006, 12, 7942-7947.	3.3	270