Steve J Madden

List of Publications by Year
in descending order

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209 papers	7,889 citations	36203 51 h-index	54797 84 g-index
211 all docs	211 docs citations	211 times ranked	3809 citing authors

#	Article	IF	Citations
1	On-chip stimulated Brillouin scattering. Optics Express, 2011, 19, 8285.	1.7	306
2	Ultrafast all-optical chalcogenide glass photonic circuits. Optics Express, 2007, 15, 9205.	1.7	305
3	Low-power, chip-based stimulated Brillouin scattering microwave photonic filter with ultrahigh selectivity. Optica, 2015, 2, 76.	4.8	282
4	Supercontinuum generation in dispersion engineered highly nonlinear (Î³ = 10 /W/m) As_2S_3 chalcogenide planar waveguide. Optics Express, 2008, 16, 14938.	1.7	259
5	Long, low loss etched As_2S_3 chalcogenide waveguides for all-optical signal regeneration. Optics Express, 2007, 15, 14414.	1.7	196
6	Photonic-chip-based radio-frequency spectrum analyser with terahertz bandwidth. Nature Photonics, 2009, 3, 139-143.	15.6	178
7	Midinfrared supercontinuum generation from 2 to 6â€‰â€‰Î¼m in a silicon nanowire. Optica, 2015, 2, 797.	4.8	164
8	Systematic z-scan measurements of the third order nonlinearity of chalcogenide glasses. Optical Materials Express, 2014, 4, 1011.	1.6	160
9	18-10â€‰â€‰Î¼m mid-infrared supercontinuum generated in a step-index chalcogenide fiber using low peak pump power. Optics Letters, 2015, 40, 1081.	1.7	159
10	Mid-infrared supercontinuum generation in chalcogenides. Optical Materials Express, 2013, 3, 1075.	1.6	158
11	Low-loss chalcogenide waveguides for chemical sensing in the mid-infrared. Optics Express, 2013, 21, 29927.	1.7	147
12	A broadband, quasi-continuous, mid-infrared supercontinuum generated in a chalcogenide glass waveguide. Laser and Photonics Reviews, 2014, 8, 792-798.	4.4	141
13	Applications of Highly-Nonlinear Chalcogenide Glass Devices Tailored for High-Speed All-Optical Signal Processing. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 529-539.	1.9	139
14	Low propagation loss silicon-on-sapphire waveguides for the mid-infrared. Optics Express, 2011, 19, 15212.	1.7	136
15	Compact Brillouin devices through hybrid integration on silicon. Optica, 2017, 4, 847.	4.8	135
16	Progress in optical waveguides fabricated from chalcogenide glasses. Optics Express, 2010, 18, 26635.	1.7	131
17	Photonic chip based tunable and reconfigurable narrowband microwave photonic filter using stimulated Brillouin scattering. Optics Express, 2012, 20, 18836.	1.7	126
18	Properties of Ge_xAs_ySe_1-x-y glasses for all-optical signal processing. Optics Express, 2008, 16, 2804.	1.7	124

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19	Breakthrough switching speed with an all-optical chalcogenide glass chip: 640 Gbit/s demultiplexing. Optics Express, 2009, 17, 2182.	1.7	117
20	Tailoring of the Brillouin gain for on-chip widely tunable and reconfigurable broadband microwave photonic filters. Optics Letters, 2016, 41, 436.	1.7	116
21	Photonic-chip-based tunable slow and fast light via stimulated Brillouin scattering. Optics Letters, 2012, 37, 969.	1.7	112
22	Tunability of polarization-insensitive wavelength converters based on four-wave mixing in semiconductor optical amplifiers. Journal of Lightwave Technology, 1998, 16, 2419-2427.	2.7	106
23	Fabrication of planar photonic crystals in a chalcogenide glass using a focused ion beam. Optics Express, 2005, 13, 3079.	1.7	106
24	Advanced Integrated Microwave Signal Processing With Giant On-Chip Brillouin Gain. Journal of Lightwave Technology, 2017, 35, 846-854.	2.7	99
25	Experimental demonstration of linearly polarized 2â€“10â€‰â€‰Î¼m supercontinuum generation in a chalcogenide rib waveguide. Optics Letters, 2016, 41, 958.	1.7	96
26	Wide-range, high-precision multiple microwave frequency measurement using a chip-based photonic Brillouin filter. Optica, 2016, 3, 30.	4.8	91
27	Net-gain from a parametric amplifier on a chalcogenide optical chip. Optics Express, 2008, 16, 20374.	1.7	85
28	Widely tunable, low phase noise microwave source based on a photonic chip. Optics Letters, 2016, 41, 4633.	1.7	84
29	Photosensitive post tuning of chalcogenide photonic crystal waveguides. Optics Express, 2007, 15, 1277.	1.7	81
30	All optical wavelength conversion via cross phase modulation in chalcogenide glass rib waveguides. Optics Express, 2006, 14, 11242.	1.7	78
31	Efficient coupling to chalcogenide glass photonic crystal waveguides via silica optical fiber nanowires. Optics Express, 2006, 14, 1070.	1.7	77
32	Nonlinear absorption and refraction in crystalline silicon in the midâ€infrared. Laser and Photonics Reviews, 2013, 7, 1054-1064.	4.4	77
33	On the properties and stability of thermally evaporated Geâ€“Asâ€“Se thin films. Applied Physics A: Materials Science and Processing, 2009, 96, 615-625.	1.1	76
34	Dispersion engineered As_2S_3 planar waveguides for broadband four-wave mixing based wavelength conversion of 40 Gb/s signals. Optics Express, 2009, 17, 3514.	1.7	75
35	Supercontinuum generation in the mid-infrared from a dispersion-engineered As_2S_3 glass rib waveguide. Optics Letters, 2012, 37, 3870.	1.7	75
36	Dispersion engineered Ge_115As_24Se_645 nanowires with a nonlinear parameter of 136W^-1m^-1 at 1550nm. Optics Express, 2010, 18, 18866.	1.7	74

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37	Low loss Chalcogenide glass waveguides by thermal nano-imprint lithography. Optics Express, 2010, 18, 19286.	1.7	74
38	Narrow linewidth Brillouin laser based on chalcogenide photonic chip. Optics Letters, 2013, 38, 3208.	1.7	74
39	Photonic chip based transmitter optimization and receiver demultiplexing of a 128 Tbit/s OTDM signal. Optics Express, 2010, 18, 17252.	1.7	73
40	Wavelength dispersion of Verdet constants in chalcogenide glasses for magneto-optical waveguide devices. Optics Communications, 2005, 252, 39-45.	1.0	72
41	Photonic chip based ultrafast optical processing based on high nonlinearity dispersion engineered chalcogenide waveguides. Laser and Photonics Reviews, 2012, 6, 97-114.	4.4	71
42	Tellurium dioxide Erbium doped planar rib waveguide amplifiers with net gain and 28dB/cm internal gain. Optics Express, 2010, 18, 19192.	1.7	69
43	Ultra-High Nonlinear As$_2$S$_3$ Planar Waveguide for 160-Gb/s Optical Time-Division Demultiplexing by Four-Wave Mixing. IEEE Photonics Technology Letters, 2007, 19, 1496-1498.	1.3	67
44	Four-channel polarization-insensitive optically transparent wavelength converter. IEEE Photonics Technology Letters, 1997, 9, 1355-1357.	1.3	66
45	Tunable wideband microwave photonic phase shifter using on-chip stimulated Brillouin scattering. Optics Express, 2014, 22, 28810.	1.7	66
46	Microfluidic photonic crystal double heterostructures. Applied Physics Letters, 2007, 91, .	1.5	65
47	High Q factor chalcogenide ring resonators for cavity-enhanced MIR spectroscopic sensing. Optics Express, 2015, 23, 19969.	1.7	65
48	Wavelength Conversion of High-Speed Phase and Intensity Modulated Signals Using a Highly Nonlinear Chalcogenide Glass Chip. IEEE Photonics Technology Letters, 2010, 22, 3-5.	1.3	63
49	Generation of correlated photon pairs in a chalcogenide As2S3 waveguide. Applied Physics Letters, 2011, 98, .	1.5	62
50	Characterization and modeling of Fano resonances in chalcogenide photonic crystal membranes. Optics Express, 2006, 14, 369.	1.7	61
51	Tunable microwave photonic notch filter using on-chip stimulated Brillouin scattering. Optics Communications, 2014, 313, 85-89.	1.0	52
52	Annealing induced phase transformations in amorphous As2S3 films. Journal of Applied Physics, 2006, 100, 063524.	1.1	51
53	Chalcogenide glass photonic crystals. Photonics and Nanostructures - Fundamentals and Applications, 2008, 6, 3-11.	1.0	48
54	Simultaneous multi-impairment monitoring of 640 Gb/s signals using photonic chip based RF spectrum analyzer. Optics Express, 2010, 18, 3938.	1.7	48

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55	High-Resolution Optical Sampling of 640-Gb/s Data Using Four-Wave Mixing in Dispersion-Engineered Highly Nonlinear As$_2$S$_3$ Planar Waveguides. Journal of Lightwave Technology, 2010, 28, 209-215.	2.7	47
56	Low Raman-noise correlated photon-pair generation in a dispersion-engineered chalcogenide As_2S_3 planar waveguide. Optics Letters, 2012, 37, 3393.	1.7	46
57	Submicrometer-Thick Low-Loss As$_2$S$_3$ Planar Waveguides for Nonlinear Optical Devices. IEEE Photonics Technology Letters, 2010, 22, 495-497.	1.3	44
58	Very low loss reactively ion etched Tellurium Dioxide planar rib waveguides for linear and non-linear optics. Optics Express, 2009, 17, 17645.	1.7	43
59	Photonic chip-based all-optical XOR gate for 40 and 160â€‰Gbit/s DPSK signals. Optics Letters, 2011, 36, 710.	1.7	43
60	Rebonding of Se to As and Ge in Ge33As12Se55 films upon thermal annealing: Evidence from x-ray photoelectron spectra investigations. Journal of Applied Physics, 2007, 101, 113517.	1.1	42
61	Chip-based Brillouin radio frequency photonic phase shifter and wideband time delay. Optics Letters, 2017, 42, 1313.	1.7	42
62	Phase-sensitive amplification of light in a Ï‡^(3) photonic chip using a dispersion engineered chalcogenide ridge waveguide. Optics Express, 2013, 21, 7926.	1.7	41
63	Low loss high index contrast nanoimprinted polysiloxane waveguides. Optics Express, 2009, 17, 2623.	1.7	39
64	Thermal annealing of arsenic tri-sulphide thin film and its influence on device performance. Journal of Applied Physics, 2010, 107, 053106.	1.1	39
65	Observation of Brillouin dynamic grating in a photonic chip. Optics Letters, 2013, 38, 305.	1.7	39
66	Bragg gratings in silicon-on-insulator waveguides by focused ion beam milling. Applied Physics Letters, 2004, 85, 4860-4862.	1.5	37
67	Sampled Bragg gratings in chalcogenide (As2S3) rib-waveguides. Optics Express, 2006, 14, 9451.	1.7	37
68	Structural relaxation and optical properties in amorphous Ge33As12Se55 films. Journal of Non-Crystalline Solids, 2007, 353, 950-952.	1.5	37
69	Cavity enhanced stimulated Brillouin scattering in an optical chip for multiorder Stokes generation. Optics Letters, 2011, 36, 3687.	1.7	37
70	Chip-based Brillouin processing for carrier recovery in self-coherent optical communications. Optica, 2018, 5, 1191.	4.8	37
71	Fabrication of low loss Ge33As12Se55 (AMTIR-1) planar waveguides. Applied Physics Letters, 2007, 91, 011115.	1.5	36
72	Error-free wavelength conversion via cross-phase modulation in 5â€…cm of As2S3 chalcogenide glass rib waveguide. Electronics Letters, 2007, 43, 945.	0.5	36

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73	Photowritten high-Q cavities in two-dimensional chalcogenide glass photonic crystals. Optics Letters, 2009, 34, 3671.	1.7	36
74	Mid-infrared nonlinear optical response of Si-Ge waveguides with ultra-short optical pulses. Optics Express, 2015, 23, 32202.	1.7	36
75	Phase-locked, chip-based, cascaded stimulated Brillouin scattering. Optica, 2014, 1, 311.	4.8	35
76	Broadband wavelength conversion at 40 Gb/s using long serpentine As_2S_3 planar waveguides. Optics Express, 2007, 15, 15047.	1.7	33
77	Plasma etching of As2S3 films for optical waveguides. Journal of Non-Crystalline Solids, 2008, 354, 3179-3183.	1.5	31
78	Characterizing photonic crystal waveguides with an expanded k-space evanescent coupling technique. Optics Express, 2008, 16, 13800.	1.7	31
79	980nm pumped erbium doped tellurium oxide planar rib waveguide laser and amplifier with gain in S, C and L band. Optics Express, 2015, 23, 747.	1.7	31
80	Investigation of all-optical analog-to-digital quantization using a chalcogenide waveguide: A step towards on-chip analog-to-digital conversion. Optics Communications, 2010, 283, 2258-2262.	1.0	30
81	On-chip Brillouin purification for frequency comb-based coherent optical communications. Optics Letters, 2017, 42, 5074.	1.7	30
82	Thermal characterization of Geâ€“Asâ€“Se glasses by differential scanning calorimetry. Journal of Materials Science: Materials in Electronics, 2007, 18, 419-422.	1.1	29
83	Terahertz bandwidth RF spectrum analysis of femtosecond pulses using a chalcogenide chip. Optics Express, 2009, 17, 9314.	1.7	29
84	Third-harmonic generation in slow-light chalcogenide glass photonic crystal waveguides. Optics Letters, 2011, 36, 2818.	1.7	28
85	Highâ€Performance Integrated Optics with Tellurite Glasses: Status and Prospects. International Journal of Applied Glass Science, 2012, 3, 289-298.	1.0	27
86	Waveguide fabrication for integrated optics by electron beam irradiation of silica. Journal of Lightwave Technology, 1991, 9, 715-720.	2.7	26
87	Four-channel WDM optical phase conjugator using four-wave mixing in a single semiconductor optical amplifier. Electronics Letters, 1995, 31, 743.	0.5	25
88	Optical phase conjugation by an As_2S_3 glass planar waveguide for dispersion-free transmission of WDM-DPSK signals over fiber. Optics Express, 2010, 18, 26686.	1.7	24
89	Photo-induced and Thermal Annealing of Chalcogenide Films for Waveguide Fabrication. Physics Procedia, 2013, 48, 196-205.	1.2	24
90	Internal gain in Er-doped As_2S_3 chalcogenide planar waveguides. Optics Letters, 2015, 40, 796.	1.7	24

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91	Dry etching characteristics of amorphous As2S3 film in CHF3 plasma. Journal of Applied Physics, 2008, 104, .	1.1	23
92	Low loss coupling to sub-micron thick rib and nanowire waveguides by vertical tapering. Optics Express, 2013, 21, 3582.	1.7	23
93	Nanoscale phase separation in ultrafast pulsed laser deposited arsenic trisulfide (As2S3) films and its effect on plasma etching. Journal of Applied Physics, 2007, 102, .	1.1	22
94	Frontiers in microphotonics: tunability and all-optical control. Laser Physics Letters, 2007, 4, 177-186.	0.6	22
95	Large phase shifts in As_2S_3 waveguides for all-optical processing devices. Optics Letters, 2005, 30, 2605.	1.7	21
96	Photosensitive and thermal nonlinear effects in chalcogenide photonic crystal cavities. Optics Express, 2010, 18, 26695.	1.7	21
97	Polarization-independent chalcogenide glass nanowires with anomalous dispersion for all-optical processing. Optics Express, 2012, 20, 13513.	1.7	21
98	Positive and negative phototunability of chalcogenide (AMTIR-1) microdisk resonator. Optics Express, 2015, 23, 8681.	1.7	21
99	Pump-degenerate phase-sensitive amplification in chalcogenide waveguides. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 780.	0.9	19
100	Fabrication tolerant chalcogenide mid-infrared multimode interference coupler design with applications for Bracewell nulling interferometry. Optics Express, 2017, 25, 3038.	1.7	19
101	Photonic-chip-based all-optical ultra-wideband pulse generation via XPM and birefringence in a chalcogenide waveguide. Optics Express, 2013, 21, 2003.	1.7	18
102	Emission properties of erbium-doped Ge-Ga-Se glasses, thin films and waveguides for laser amplifiers. Optical Materials Express, 2014, 4, 464.	1.6	18
103	Improved method for hot embossing As_2S_3 waveguides employing a thermally stable chalcogenide coating. Optics Express, 2011, 19, 25447.	1.7	17
104	Interplay between Raman scattering and four-wave mixing in As_2S_3 chalcogenide glass waveguides. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2777.	0.9	16
105	Nano-phase separation of arsenic tri-sulphide (As2S3) film and its effect on plasma etching. Journal of Non-Crystalline Solids, 2007, 353, 953-955.	1.5	15
106	Long-period gratings in chalcogenide (As2S3) rib waveguides. Electronics Letters, 2006, 42, 1094.	0.5	14
107	A protective layer on As2S3 film for photo-resist patterning. Journal of Non-Crystalline Solids, 2008, 354, 5253-5254.	1.5	14
108	Automatic dispersion compensation for 128Tb/s OTDM signal transmission using photonic-chip-based dispersion monitoring. Optics Express, 2010, 18, 25415.	1.7	14

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109	Photoluminescence in Er-doped Ge-As-Se chalcogenide thin films. Optical Materials Express, 2012, 2, 1270.	1.6	14
110	Greater than 50% inversion in Erbium doped Chalcogenide waveguides. Optics Express, 2016, 24, 23304.	1.7	14
111	Higher order mode conversion via focused ion beam milled Bragg gratings in Silicon-on-Insulator waveguides. Optics Express, 2004, 12, 5274.	1.7	13
112	On-chip high sensitivity laser frequency sensing with Brillouin mutually-modulated cross-gain modulation. Optics Express, 2013, 21, 8605.	1.7	13
113	Brillouin spectroscopy of a hybrid silicon-chalcogenide waveguide with geometrical variations. Optics Letters, 2018, 43, 3493.	1.7	13
114	Optical channel waveguide fabrication based on electron beam irradiation of silica. Applied Physics Letters, 1990, 57, 2902-2903.	1.5	12
115	Reactive ion etching of tellurite and chalcogenide waveguides using hydrogen, methane, and argon. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, .	0.9	12
116	Photothermal Breaking of Emulsions Stabilized with Graphene. ACS Applied Materials & Interfaces, 2016, 8, 10609-10616.	4.0	12
117	Instantaneous microwave frequency measurement using four-wave mixing in a chalcogenide chip. Optics Communications, 2016, 373, 100-104.	1.0	12
118	SU-8 protective layer in photo-resist patterning on As2S3 film. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 3183-3186.	0.8	11
119	Effect of low-Raman window position on correlated photon-pair generation in a chalcogenide Ge11.5As24Se64.5 nanowire. Journal of Applied Physics, 2012, 112, .	1.1	11
120	High-Quality Polarization-Insensitive Polysiloxane Waveguide Gratings Produced by UV Nanoimprint Lithography. IEEE Photonics Technology Letters, 2010, 22, 1720-1722.	1.3	10
121	Physical Aging of Arsenic Trisulfide Thick Films and Bulk Materials. Journal of the American Ceramic Society, 2007, 90, 1269-1271.	1.9	9
122	Single parameter optimization for simultaneous automatic compensation of multiple orders of dispersion for a 128 Tbaud signal. Optics Express, 2011, 19, 25512.	1.7	9
123	Chalcogenide Glass Photonic Chips. Optics and Photonics News, 2008, 19, 18.	0.4	8
124	Hybrid waveguide from As_2S_3 and Er-doped TeO_2 for lossless nonlinear optics. Optics Letters, 2013, 38, 1766.	1.7	8
125	Improving the extinction bandwidth of MMI chalcogenide photonic chip based MIR nulling interferometers. Optics Express, 2017, 25, 16813.	1.7	8
126	PROPERTIES AND STRUCTURE OF Ag-DOPED As2Se3 GLASSES. Journal of Nonlinear Optical Physics and Materials, 2007, 16, 49-57.	1.1	7

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127	Surface Roughness in Plasma-Etched $hbox{As}_{f 2}hbox{S}_{f 3}$ Films: Its Origin and Improvement. IEEE Nanotechnology Magazine, 2008, 7, 285-290.	1.1	7
128	Higher-order mode grating devices in As_2S_3 chalcogenide glass rib waveguides. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 1283.	0.9	6
129	Characterisation of chalcogenide 2D photonic crystal waveguides and nanocavities using silica fibre nanowires. Physica B: Condensed Matter, 2007, 394, 289-292.	1.3	6
130	On-chip stimulated Brillouin scattering for microwave photonic signal processing. , 2016, , .		6
131	Integrated shadow mask for sampled Bragg gratings in chalcogenide (As_2S_3) planar waveguides. Optics Express, 2007, 15, 7708.	1.7	5
132	Ultrahigh-bandwidth, on-chip all-optical pulse erasure using the Ï‡^(3) process in a nonlinear chalcogenide waveguide. Optics Letters, 2011, 36, 298.	1.7	5
133	Identifying the best chalcogenide glass compositions for the application in mid-infrared waveguides. Proceedings of SPIE, 2015, , .	0.8	5
134	On-chip multi-stage optical delay based on cascaded Brillouin light storage. Optics Letters, 2018, 43, 4321.	1.7	5
135	Error-free 640 Gbit/s demultiplexing using a chalcogenide planar waveguide chip. , 2008, , .		4
136	Photonic Chip-Based Simultaneous Multi-Impairment Monitoring for Phase-Modulated Optical Signals. Journal of Lightwave Technology, 2010, , .	2.7	4
137	Microwave photonic notch filter using on-chip stimulated Brillouin scattering. , 2013, , .		4
138	Low Loss Chalcogenide Glass Waveguides Fabricated By Thermal Nanoimprint Lithography. , 2010, , .		3
139	Chalcogenide glass photonic crystals: progress and prospects. Proceedings of SPIE, 2010, , .	0.8	3
140	Photonic-Chip-Based Ultrafast Waveform Analysis and Optical Performance Monitoring. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 834-846.	1.9	3
141	Designing absorbers for graphene based mid-infrared wide band waveguide photodetectors. Optics Express, 2021, 29, 33850.	1.7	3
142	Stoichiometric low loss Tellurium Oxide thin films for photonic applications. , 2008, , .		2
143	High-resolution optical sampling by means of dispersionshifted highly nonlinear chalcogenide waveguides. , 2009, , .		2
144	Optical characterization of Ge-As-Se glasses containing high content of germanium. , 2006, , .		1

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145	Low cost nanoimprinted polymer waveguides. Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on, 2008, , .	0.0	1
146	High index contrast polysiloxane waveguides fabricated by dry etching. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 561-565.	0.9	1
147	Pulse train generation by soliton fission in highly nonlinear chalcogenide (As2S3) waveguide Bragg grating. Electronics Letters, 2009, 45, 799.	0.5	1
148	On-chip stimulated Brillouin scattering. , 2010, , .		1
149	Direct molding Chalcogenide glass waveguides using thermal nanoimprint lithography with a soft PDMS stamp. , 2011, , .		1
150	On-chip stimulated Brillouin scattering and its applications. , 2013, , .		1
151	Mid infrared supercontinuum generation from chalcogenide glass waveguides and fibers. , 2015, , .		1
152	Materials and Structures for Nonlinear Photonics. Springer Series in Optical Sciences, 2015, , 1-33.	0.5	1
153	Production of low loss highly nonlinear chalcogenide glass waveguides by hot embossing. , 2010, , .		1
154	Supercontinuum generation in the mid-infrared using dispersion engineered chalcogenide glass waveguides. , 2013, , .		1
155	Terabaud Optical Sampling on a Chalcogenide Optical Chip. , 2014, , .		1
156	Spectroscopy Application of Linearly Polarized 2-10 Î¼m Supercontinuum in a Chalcogenide Rib Waveguide. , 2016, , .		1
157	Nonlinear photonic crystals in chalcogenide for all-optical processing. , 2006, , .		0
158	Fabrication of sampled Bragg gratings in highly nonlinear integrated chalcogenide (As<inf>2</inf>S<inf>3</inf>) waveguides. , 2006, , .		0
159	Low loss etched Ge<inf>33</inf>As<inf>12</inf>Se<inf>55</inf> chalcogenide waveguides. , 2006, , .		0
160	Characterization and modeling of Fano resonances in chalcogenide glass photonic crystal membranes. , 2006, , .		0
161	Long-period gratings in chalcogenide rib waveguides. , 2006, , .		0
162	Novel Shadow Mask Structure for Sampled Bragg Gratings in Chalcogenide (As<inf>2</inf>S<inf>3</inf>) Planar Waveguides. , 2007, , .		0

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163	All-Optical Wavelength Conversion in As<inf>2</inf>S<inf>3</inf> Chalcogenide Glass Rib Waveguides. , 2007, , .		0
164	Optimization of the Structural and Optical Properties of Ge-As-Se Glasses. , 2007, , .		0
165	High Quality Comb Filters in Chalcogenide Rib Waveguides. , 2007, , .		0
166	Highly Optical Nonlinear Ag-doped As<inf>2</inf>Se<inf>3</inf> Glasses: Preparation and Characterization. , 2007, , .		0
167	Fabrication Process Development for As<inf>2</inf>S<inf>3</inf> Planar Waveguides using Standard Semiconductor Processing. , 2007, , .		0
168	Microfluidic photonic crystal nanocavities. , 2007, , .		0
169	Fabrication of As<inf>2</inf>S<inf>3</inf> Planar Waveguides with Very Low Propagation Loss. Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS, 2007, , .	0.0	0
170	Modulation-instability and pulse-train generation in a highly nonlinear Bragg grating. , 2008, , .		0
171	Photo-induced cavities in chalcogenide photonic crystals. , 2008, , .		0
172	An Expanded k-Space Evanescent Coupling Technique for Characterizing Photonic Crystal Waveguides. , 2009, , .		0
173	Photoinduced high-Q cavities in chalcogenide photonic crystals. , 2009, , .		0
174	Fabrication of sub-micron Thick, low loss As<inf>2</inf>S<inf>3</inf> planar waveguides. , 2009, , .		0
175	High-resolution optical sampling of 640-Gb/s signals using highly nonlinear chalcogenide waveguides. , 2009, , .		0
176	Supercontinuum generation and four wave mixing in Ge<inf>11</inf>As<inf>22</inf>Se<inf>67</inf> rib waveguides with a nonlinear parameter ≫26000W^{−1}km^{−1}. , 2009, , .		0
177	Properties and stability of Ge-As-Se evaporated thin films for nonlinear waveguides. , 2009, , .		0
178	Optically nonlinear chalcogenide glasses for all- optical signal processing. , 2009, , .		0
179	High-Q photonic crystal chalcogenide cavities by photosensitive post processing. , 2009, , .		0
180	Automatic higher-order dispersion measurement and compensation of a 1.28 Tbaud signal. , 2010, , .		0

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181	Optical sampling of ultrahigh bitrate signals using highly nonlinear chalcogenide planar waveguides or tapered fibers. Proceedings of SPIE, 2010, , .	0.8	0
182	Ge<inf>11.5</inf>As<inf>24</inf>Se<inf>64.5</inf> chalcogenide glass nanowires with a nonlinear parameter of 136,000W^{−1} km^{−1} at 1550nm. , 2010, , .		0
183	Ge<inf>11.5</inf>As<inf>24</inf>Se<inf>64.5</inf> chalcogenide glass nanowires with a nonlinear parameter of 136,000W^{−1}km^{−1} at 1550nm. , 2010, , .		0
184	2.8dB/cm Internal gain Tellurium dioxide Erbium waveguide amplifiers. , 2010, , .		0
185	Low loss Chalcogenide glass waveguides fabricated by hot embossing. , 2010, , .		0
186	Chalcogenide glasses for nonlinear photonics. , 2010, , .		0
187	Investigation of on-chip all-optical quantization and novel encoding method: paving the way for optical analog-to-digital conversion chip. Proceedings of SPIE, 2010, , .	0.8	0
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