

# 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	Designing absorbers for graphene based mid-infrared wide band waveguide photodetectors. Optics Express, 2021, 29, 33850.	1.7	3
2	On-chip multi-stage optical delay based on cascaded Brillouin light storage. Optics Letters, 2018, 43, 4321.	1.7	5
3	Brillouin spectroscopy of a hybrid silicon-chalcogenide waveguide with geometrical variations. Optics Letters, 2018, 43, 3493.	1.7	13
4	Chip-based Brillouin processing for carrier recovery in self-coherent optical communications. Optica, 2018, 5, 1191.	4.8	37
5	Advanced Integrated Microwave Signal Processing With Giant On-Chip Brillouin Gain. Journal of Lightwave Technology, 2017, 35, 846-854.	2.7	99
6	Fabrication tolerant chalcogenide mid-infrared multimode interference coupler design with applications for Bracewell nulling interferometry. Optics Express, 2017, 25, 3038.	1.7	19
7	Improving the extinction bandwidth of MMI chalcogenide photonic chip based MIR nulling interferometers. Optics Express, 2017, 25, 16813.	1.7	8
8	Compact Brillouin devices through hybrid integration on silicon. Optica, 2017, 4, 847.	4.8	135
9	Chip-based Brillouin radio frequency photonic phase shifter and wideband time delay. Optics Letters, 2017, 42, 1313.	1.7	42
10	On-chip Brillouin purification for frequency comb-based coherent optical communications. Optics Letters, 2017, 42, 5074.	1.7	30
11	Widely tunable, low phase noise microwave source based on a photonic chip. Optics Letters, 2016, 41, 4633.	1.7	84
12	Greater than 50% inversion in Erbium doped Chalcogenide waveguides. Optics Express, 2016, 24, 23304.	1.7	14
13	Experimental demonstration of linearly polarized 2-10 $\mu\text{m}$ supercontinuum generation in a chalcogenide rib waveguide. Optics Letters, 2016, 41, 958.	1.7	96
14	Photothermal Breaking of Emulsions Stabilized with Graphene. ACS Applied Materials & Interfaces, 2016, 8, 10609-10616.	4.0	12
15	Wide-range, high-precision multiple microwave frequency measurement using a chip-based photonic Brillouin filter. Optica, 2016, 3, 30.	4.8	91
16	Tailoring of the Brillouin gain for on-chip widely tunable and reconfigurable broadband microwave photonic filters. Optics Letters, 2016, 41, 436.	1.7	116
17	Instantaneous microwave frequency measurement using four-wave mixing in a chalcogenide chip. Optics Communications, 2016, 373, 100-104.	1.0	12
18	Spectroscopy Application of Linearly Polarized 2-10 $\mu\text{m}$ Supercontinuum in a Chalcogenide Rib Waveguide. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
19	On-chip stimulated Brillouin scattering for microwave photonic signal processing. , 2016, , .		6
20	Mid-infrared nonlinear optical response of Si-Ge waveguides with ultra-short optical pulses. Optics Express, 2015, 23, 32202.	1.7	36
21	Identifying the best chalcogenide glass compositions for the application in mid-infrared waveguides. Proceedings of SPIE, 2015, , .	0.8	5
22	Internal gain in Er-doped As <sub>2</sub> S <sub>3</sub> chalcogenide planar waveguides. Optics Letters, 2015, 40, 796.	1.7	24
23	Low-power, chip-based stimulated Brillouin scattering microwave photonic filter with ultrahigh selectivity. Optica, 2015, 2, 76.	4.8	282
24	18-10 $\mu$ m mid-infrared supercontinuum generated in a step-index chalcogenide fiber using low peak pump power. Optics Letters, 2015, 40, 1081.	1.7	159
25	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
26	Positive and negative phototunability of chalcogenide (AMTIR-1) microdisk resonator. Optics Express, 2015, 23, 8681.	1.7	21
27	High Q factor chalcogenide ring resonators for cavity-enhanced MIR spectroscopic sensing. Optics Express, 2015, 23, 19969.	1.7	65
28	Mid infrared supercontinuum generation from chalcogenide glass waveguides and fibers. , 2015, , .		1
29	Midinfrared supercontinuum generation from 2 to 6 $\mu$ m in a silicon nanowire. Optica, 2015, 2, 797.	4.8	164
30	Materials and Structures for Nonlinear Photonics. Springer Series in Optical Sciences, 2015, , 1-33.	0.5	1
31	Phase-locked, chip-based, cascaded stimulated Brillouin scattering. Optica, 2014, 1, 311.	4.8	35
32	Tunable wideband microwave photonic phase shifter using on-chip stimulated Brillouin scattering. Optics Express, 2014, 22, 28810.	1.7	66
33	Emission properties of erbium-doped Ge-Ca-Se glasses, thin films and waveguides for laser amplifiers. Optical Materials Express, 2014, 4, 464.	1.6	18
34	Pump-degenerate phase-sensitive amplification in chalcogenide waveguides. Journal of the Optical Society of America B: Optical Physics, 2014, 31, 780.	0.9	19
35	A Broadband Mid-Infrared Supercontinuum Generated in a Short Chalcogenide Glass Waveguide. , 2014, , .		0
36	Chalcogenide planar waveguides for mid-infrared applications. , 2014, , .		0

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37	Systematic z-scan measurements of the third order nonlinearity of chalcogenide glasses. Optical Materials Express, 2014, 4, 1011.	1.6	160
38	Tunable microwave photonic notch filter using on-chip stimulated Brillouin scattering. Optics Communications, 2014, 313, 85-89.	1.0	52
39	A broadband, quasi-continuous, mid-infrared supercontinuum generated in a chalcogenide glass waveguide. Laser and Photonics Reviews, 2014, 8, 792-798.	4.4	141
40	Low-loss chalcogenide waveguides for biosensing in the mid-infrared. , 2014, , .		0
41	Terabaud Optical Sampling on a Chalcogenide Optical Chip. , 2014, , .		1
42	Intense Photoluminescence from Er Doped Chalcogenide Thin Films Fabricated by Cothermal Evaporation. , 2014, , .		0
43	Photo-induced and Thermal Annealing of Chalcogenide Films for Waveguide Fabrication. Physics Procedia, 2013, 48, 196-205.	1.2	24
44	On-chip stimulated Brillouin scattering and its applications. , 2013, , .		1
45	Nonlinear absorption and refraction in crystalline silicon in the mid-infrared. Laser and Photonics Reviews, 2013, 7, 1054-1064.	4.4	77
46	Observation of Brillouin dynamic grating in a photonic chip. Optics Letters, 2013, 38, 305.	1.7	39
47	Microwave photonic notch filter using on-chip stimulated Brillouin scattering. , 2013, , .		4
48	Narrow linewidth Brillouin laser based on chalcogenide photonic chip. Optics Letters, 2013, 38, 3208.	1.7	74
49	On-chip high sensitivity laser frequency sensing with Brillouin mutually-modulated cross-gain modulation. Optics Express, 2013, 21, 8605.	1.7	13
50	Automatic DGD and GVD compensation at 640ÅGb/s based on scalar radio-frequency spectrum measurement. Applied Optics, 2013, 52, 1919.	0.9	0
51	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
52	Low loss coupling to sub-micron thick rib and nanowire waveguides by vertical tapering. Optics Express, 2013, 21, 3582.	1.7	23
53	Phase-sensitive amplification of light in a $\chi^{(3)}$ photonic chip using a dispersion engineered chalcogenide ridge waveguide. Optics Express, 2013, 21, 7926.	1.7	41
54	Low-loss chalcogenide waveguides for chemical sensing in the mid-infrared. Optics Express, 2013, 21, 29927.	1.7	147

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55	Hybrid waveguide from As <sub>2</sub> S <sub>3</sub> and Er-doped TeO <sub>2</sub> for lossless nonlinear optics. Optics Letters, 2013, 38, 1766.	1.7	8
56	Mid-infrared supercontinuum generation in chalcogenides. Optical Materials Express, 2013, 3, 1075.	1.6	158
57	Supercontinuum generation in the mid-infrared using dispersion engineered chalcogenide glass waveguides. , 2013, , .		1
58	Hybrid As <sub>2</sub> S <sub>3</sub> :Er-TeO <sub>2</sub> Loss Compensated Nonlinear Waveguides. , 2013, , .		0
59	Chalcogenide glass waveguides for the mid-infrared. , 2013, , .		0
60	Low Raman-noise correlated photon-pair generation in a dispersion-engineered chalcogenide As <sub>2</sub> S <sub>3</sub> planar waveguide. Optics Letters, 2012, 37, 3393.	1.7	46
61	Photonic-chip-based tunable slow and fast light via stimulated Brillouin scattering. Optics Letters, 2012, 37, 969.	1.7	112
62	Polarization-independent chalcogenide glass nanowires with anomalous dispersion for all-optical processing. Optics Express, 2012, 20, 13513.	1.7	21
63	Photonic chip based tunable and reconfigurable narrowband microwave photonic filter using stimulated Brillouin scattering. Optics Express, 2012, 20, 18836.	1.7	126
64	Photoluminescence in Er-doped Ge-As-Se chalcogenide thin films. Optical Materials Express, 2012, 2, 1270.	1.6	14
65	Supercontinuum generation in the mid-infrared from a dispersion-engineered As <sub>2</sub> S <sub>3</sub> glass rib waveguide. Optics Letters, 2012, 37, 3870.	1.7	75
66	Silver-doped arsenic selenide (Ag-As <sub>2</sub> Se <sub>3</sub> ) waveguides for compact nonlinear optical devices. , 2012, , .		0
67	Effect of low-Raman window position on correlated photon-pair generation in a chalcogenide Ge <sub>11.5</sub> As <sub>24</sub> Se <sub>64.5</sub> nanowire. Journal of Applied Physics, 2012, 112, .	1.1	11
68	Multi-order, automatic dispersion compensation for 1.28 Terabaud signals. , 2012, , .		0
69	Photonic chip based tunable slow and fast light via stimulated Brillouin scattering. , 2012, , .		0
70	High-Performance Integrated Optics with Tellurite Glasses: Status and Prospects. International Journal of Applied Glass Science, 2012, 3, 289-298.	1.0	27
71	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
72	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

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73	Interplay between Raman scattering and four-wave mixing in As <sub>2</sub> S <sub>3</sub> chalcogenide glass waveguides. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2777.	0.9	16
74	On-chip stimulated Brillouin scattering. Optics Express, 2011, 19, 8285.	1.7	306
75	Low propagation loss silicon-on-sapphire waveguides for the mid-infrared. Optics Express, 2011, 19, 15212.	1.7	136
76	Improved method for hot embossing As <sub>2</sub> S <sub>3</sub> waveguides employing a thermally stable chalcogenide coating. Optics Express, 2011, 19, 25447.	1.7	17
77	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
78	Ultra-high-bandwidth, on-chip all-optical pulse erasure using the $\chi^{(3)}$ process in a nonlinear chalcogenide waveguide. Optics Letters, 2011, 36, 298.	1.7	5
79	Photonic chip-based all-optical XOR gate for 40 and 160 Gbit/s DPSK signals. Optics Letters, 2011, 36, 710.	1.7	43
80	Third-harmonic generation in slow-light chalcogenide glass photonic crystal waveguides. Optics Letters, 2011, 36, 2818.	1.7	28
81	Cavity enhanced stimulated Brillouin scattering in an optical chip for multiorder Stokes generation. Optics Letters, 2011, 36, 3687.	1.7	37
82	Third-harmonic generation in engineered slow light photonic crystal waveguides in chalcogenide glasses. , 2011, , .		0
83	Automatic higher-order dispersion measurement and compensation of a 1.28 Tbaud signal. , 2011, , .		0
84	SU-8 protective layer in photo-resist patterning on As <sub>2</sub> S <sub>3</sub> film. Physica Status Solidi C: Current Topics in Solid State Physics, 2011, 8, 3183-3186.	0.8	11
85	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
86	Generation of correlated photon pairs in a chalcogenide As <sub>2</sub> S <sub>3</sub> waveguide. Applied Physics Letters, 2011, 98, .	1.5	62
87	On-chip cascaded stimulated Brillouin scattering. , 2011, , .		0
88	Direct molding Chalcogenide glass waveguides using thermal nanoimprint lithography with a soft PDMS stamp. , 2011, , .		1
89	The impact of thermal- and photo-annealing of chalcogenide films for optical waveguides. , 2011, , .		0
90	Automatic higher-order dispersion measurement and compensation of a 1.28 Tbaud signal. , 2010, , .		0

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91	Optical sampling of ultrahigh bitrate signals using highly nonlinear chalcogenide planar waveguides or tapered fibers. Proceedings of SPIE, 2010, , .	0.8	0
92	Ge <sub>11.5</sub> As <sub>24</sub> Se <sub>64.5</sub> chalcogenide glass nanowires with a nonlinear parameter of $136,000 \text{ W}^{-1} \text{ m}^{-1}$ at 1550nm. , 2010, , .		0
93	Low Loss Chalcogenide Glass Waveguides Fabricated By Thermal Nanoimprint Lithography. , 2010, , .		3
94	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
95	Chalcogenide glass photonic crystals: progress and prospects. Proceedings of SPIE, 2010, , .	0.8	3
96	Ge <sub>11.5</sub> As <sub>24</sub> Se <sub>64.5</sub> chalcogenide glass nanowires with a nonlinear parameter of $136,000 \text{ W}^{-1} \text{ m}^{-1}$ at 1550nm. , 2010, , .		0
97	Thermal annealing of arsenic tri-sulphide thin film and its influence on device performance. Journal of Applied Physics, 2010, 107, 053106.	1.1	39
98	2.8dB/cm Internal gain Tellurium dioxide Erbium waveguide amplifiers. , 2010, , .		0
99	Low loss Chalcogenide glass waveguides fabricated by hot embossing. , 2010, , .		0
100	Chalcogenide glasses for nonlinear photonics. , 2010, , .		0
101	On-chip stimulated Brillouin scattering. , 2010, , .		1
102	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
103	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
104	Submicrometer-Thick Low-Loss As <sub>2</sub> S <sub>3</sub> Planar Waveguides for Nonlinear Optical Devices. IEEE Photonics Technology Letters, 2010, 22, 495-497.	1.3	44
105	High-Quality Polarization-Insensitive Polysiloxane Waveguide Gratings Produced by LUV Nanoimprint Lithography. IEEE Photonics Technology Letters, 2010, 22, 1720-1722.	1.3	10
106	Simultaneous multi-impairment monitoring of 640 Gb/s signals using photonic chip based RF spectrum analyzer. Optics Express, 2010, 18, 3938.	1.7	48
107	Photonic chip based transmitter optimization and receiver demultiplexing of a 128 Tbit/s OTDM signal. Optics Express, 2010, 18, 17252.	1.7	73
108	Dispersion engineered Ge <sub>11.5</sub> As <sub>24</sub> Se <sub>64.5</sub> nanowires with a nonlinear parameter of $136 \text{ W}^{-1} \text{ m}^{-1}$ at 1550nm. Optics Express, 2010, 18, 18866.	1.7	74

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109	Tellurium dioxide Erbium doped planar rib waveguide amplifiers with net gain and 28dB/cm internal gain. Optics Express, 2010, 18, 19192.	1.7	69
110	Low loss Chalcogenide glass waveguides by thermal nano-imprint lithography. Optics Express, 2010, 18, 19286.	1.7	74
111	Automatic dispersion compensation for 128Tb/s OTDM signal transmission using photonic-chip-based dispersion monitoring. Optics Express, 2010, 18, 25415.	1.7	14
112	Progress in optical waveguides fabricated from chalcogenide glasses. Optics Express, 2010, 18, 26635.	1.7	131
113	Optical phase conjugation by an As <sub>2</sub> S <sub>3</sub> glass planar waveguide for dispersion-free transmission of WDM-DPSK signals over fiber. Optics Express, 2010, 18, 26686.	1.7	24
114	Photosensitive and thermal nonlinear effects in chalcogenide photonic crystal cavities. Optics Express, 2010, 18, 26695.	1.7	21
115	High-Resolution Optical Sampling of 640-Gb/s Data Using Four-Wave Mixing in Dispersion-Engineered Highly Nonlinear As <sub>2</sub> S <sub>3</sub> Planar Waveguides. Journal of Lightwave Technology, 2010, 28, 209-215.	2.7	47
116	Photonic Chip-Based Simultaneous Multi-Impairment Monitoring for Phase-Modulated Optical Signals. Journal of Lightwave Technology, 2010, , .	2.7	4
117	Green light-induced annealing of As <sub>2</sub> S <sub>3</sub> thin films and its impact on waveguides performance. , 2010, , .		0
118	Production of low loss highly nonlinear chalcogenide glass waveguides by hot embossing. , 2010, , .		1
119	Highly Nonlinear Ge <sub>11.5</sub> As <sub>24</sub> Se <sub>64.5</sub> nanowires with a nonlinear parameter up to 150,000 W <sup>-1</sup> km <sup>-1</sup> . , 2010, , .		0
120	Chalcogenide nanowire waveguides with a nonlinear parameter 150,000 W <sup>-1</sup> km <sup>-1</sup> . , 2010, , .		0
121	All-optical quantization using a chalcogenide waveguide: Towards on-chip ultrahigh-bandwidth analog-to-digital conversion. , 2010, , .		0
122	The Evolution of Photoinduced Photonic Crystal Cavities During Writing. , 2010, , .		0
123	An Expanded k-Space Evanescent Coupling Technique for Characterizing Photonic Crystal Waveguides. , 2009, , .		0
124	Photoinduced high-Q cavities in chalcogenide photonic crystals. , 2009, , .		0
125	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
126	Fabrication of sub-micron Thick, low loss As <sub>2</sub> S <sub>3</sub> planar waveguides. , 2009, , .		0



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127	High-resolution optical sampling by means of dispersionshifted highly nonlinear chalcogenide waveguides. , 2009, , .		2
128	High-resolution optical sampling of 640-Gb/s signals using highly nonlinear chalcogenide waveguides. , 2009, , .		0
129	Supercontinuum generation and four wave mixing in Ge <sub>11</sub> As <sub>22</sub> Se <sub>67</sub> rib waveguides with a nonlinear parameter $\beta_2 = 226.26000 \text{ W}^{-1} \text{ km}^{-1}$ . , 2009, , .		0
130	Properties and stability of Ge-As-Se evaporated thin films for nonlinear waveguides. , 2009, , .		0
131	Optically nonlinear chalcogenide glasses for all- optical signal processing. , 2009, , .		0
132	High-Q photonic crystal chalcogenide cavities by photosensitive post processing. , 2009, , .		0
133	Pulse train generation by soliton fission in highly nonlinear chalcogenide (As <sub>2</sub> S <sub>3</sub> ) waveguide Bragg grating. Electronics Letters, 2009, 45, 799.	0.5	1
134	On the properties and stability of thermally evaporated Ge-As-Se thin films. Applied Physics A: Materials Science and Processing, 2009, 96, 615-625.	1.1	76
135	Photonic-chip-based radio-frequency spectrum analyser with terahertz bandwidth. Nature Photonics, 2009, 3, 139-143.	15.6	178
136	Photowritten high-Q cavities in two-dimensional chalcogenide glass photonic crystals. Optics Letters, 2009, 34, 3671.	1.7	36
137	Breakthrough switching speed with an all-optical chalcogenide glass chip: 640 Gbit/s demultiplexing. Optics Express, 2009, 17, 2182.	1.7	117
138	Low loss high index contrast nanoimprinted polysiloxane waveguides. Optics Express, 2009, 17, 2623.	1.7	39
139	Dispersion engineered As <sub>2</sub> S <sub>3</sub> planar waveguides for broadband four-wave mixing based wavelength conversion of 40 Gb/s signals. Optics Express, 2009, 17, 3514.	1.7	75
140	Terahertz bandwidth RF spectrum analysis of femtosecond pulses using a chalcogenide chip. Optics Express, 2009, 17, 9314.	1.7	29
141	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
142	Ge <sub>11.5</sub> As <sub>24</sub> Se <sub>64.5</sub> Glass: a New Material for the Fabrication of Highly Nonlinear ( $\beta_2 = 33,000 \text{ W}^{-1} \text{ km}^{-1}$ ) Dispersion Engineered Waveguides. , 2009, , .		0
143	Nanoimprinted Polysiloxane optical devices. , 2009, , .		0
144	Chalcogenide glass photonic crystals. Photonics and Nanostructures - Fundamentals and Applications, 2008, 6, 3-11.	1.0	48

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145	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
146	Plasma etching of As <sub>2</sub> S <sub>3</sub> films for optical waveguides. Journal of Non-Crystalline Solids, 2008, 354, 3179-3183.	1.5	31
147	A protective layer on As <sub>2</sub> S <sub>3</sub> film for photo-resist patterning. Journal of Non-Crystalline Solids, 2008, 354, 5253-5254.	1.5	14
148	Chalcogenide Glass Photonic Chips. Optics and Photonics News, 2008, 19, 18.	0.4	8
149	Modulation-instability and pulse-train generation in a highly nonlinear Bragg grating. , 2008, , .		0
150	Properties of Ge <sub>x</sub> As <sub>y</sub> Se <sub>1-x-y</sub> glasses for all-optical signal processing. Optics Express, 2008, 16, 2804.	1.7	124
151	Characterizing photonic crystal waveguides with an expanded k-space evanescent coupling technique. Optics Express, 2008, 16, 13800.	1.7	31
152	Supercontinuum generation in dispersion engineered highly nonlinear ( $\hat{\beta}^3 = 10$ /W/m) As <sub>2</sub> S <sub>3</sub> chalcogenide planar waveguide. Optics Express, 2008, 16, 14938.	1.7	259
153	Net-gain from a parametric amplifier on a chalcogenide optical chip. Optics Express, 2008, 16, 20374.	1.7	85
154	Low cost nanoimprinted polymer waveguides. Optoelectronic and Microelectronic Materials and Devices (COMMAD), Conference on, 2008, , .	0.0	1
155	Stoichiometric low loss Tellurium Oxide thin films for photonic applications. , 2008, , .		2
156	Error-free 640 Gbit/s demultiplexing using a chalcogenide planar waveguide chip. , 2008, , .		4
157	Surface Roughness in Plasma-Etched $\text{As}_{2}\text{S}_{3}$ Films: Its Origin and Improvement. IEEE Nanotechnology Magazine, 2008, 7, 285-290.	1.1	7
158	Dry etching characteristics of amorphous As <sub>2</sub> S <sub>3</sub> film in CHF <sub>3</sub> plasma. Journal of Applied Physics, 2008, 104, .	1.1	23
159	Photo-induced cavities in chalcogenide photonic crystals. , 2008, , .		0
160	Reconfigurable microfluidic photonic crystal cavities. , 2008, , .		0
161	Novel Shadow Mask Structure for Sampled Bragg Gratings in Chalcogenide (As <sub>2</sub> S <sub>3</sub> ) Planar Waveguides. , 2007, , .		0
162	All-Optical Wavelength Conversion in As <sub>2</sub> S <sub>3</sub> Chalcogenide Glass Rib Waveguides. , 2007, , .		0

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163	Optimization of the Structural and Optical Properties of Ge-As-Se Glasses. , 2007, , .		0
164	Fabrication of low loss Ge <sub>33</sub> As <sub>12</sub> Se <sub>55</sub> (AMTIR-1) planar waveguides. Applied Physics Letters, 2007, 91, 011115.	1.5	36
165	Microfluidic photonic crystal double heterostructures. Applied Physics Letters, 2007, 91, .	1.5	65
166	High Quality Comb Filters in Chalcogenide Rib Waveguides. , 2007, , .		0
167	Highly Optical Nonlinear Ag-doped As <sub>2</sub> Se <sub>3</sub> Glasses: Preparation and Characterization. , 2007, , .		0
168	Fabrication Process Development for As <sub>2</sub> S <sub>3</sub> Planar Waveguides using Standard Semiconductor Processing. , 2007, , .		0
169	PROPERTIES AND STRUCTURE OF Ag-DOPED As <sub>2</sub> Se <sub>3</sub> GLASSES. Journal of Nonlinear Optical Physics and Materials, 2007, 16, 49-57.	1.1	7
170	Microfluidic photonic crystal nanocavities. , 2007, , .		0
171	Higher-order mode grating devices in As <sub>2</sub> S <sub>3</sub> chalcogenide glass rib waveguides. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 1283.	0.9	6
172	Photosensitive post tuning of chalcogenide photonic crystal waveguides. Optics Express, 2007, 15, 1277.	1.7	81
173	Integrated shadow mask for sampled Bragg gratings in chalcogenide (As <sub>2</sub> S <sub>3</sub> ) planar waveguides. Optics Express, 2007, 15, 7708.	1.7	5
174	Ultrafast all-optical chalcogenide glass photonic circuits. Optics Express, 2007, 15, 9205.	1.7	305
175	Long, low loss etched As <sub>2</sub> S <sub>3</sub> chalcogenide waveguides for all-optical signal regeneration. Optics Express, 2007, 15, 14414.	1.7	196
176	Broadband wavelength conversion at 40 Gb/s using long serpentine As <sub>2</sub> S <sub>3</sub> planar waveguides. Optics Express, 2007, 15, 15047.	1.7	33
177	Structural relaxation and optical properties in amorphous Ge <sub>33</sub> As <sub>12</sub> Se <sub>55</sub> films. Journal of Non-Crystalline Solids, 2007, 353, 950-952.	1.5	37
178	Nano-phase separation of arsenic tri-sulphide (As <sub>2</sub> S <sub>3</sub> ) film and its effect on plasma etching. Journal of Non-Crystalline Solids, 2007, 353, 953-955.	1.5	15
179	Nanoscale phase separation in ultrafast pulsed laser deposited arsenic trisulfide (As <sub>2</sub> S <sub>3</sub> ) films and its effect on plasma etching. Journal of Applied Physics, 2007, 102, .	1.1	22
180	Rebonding of Se to As and Ge in Ge <sub>33</sub> As <sub>12</sub> Se <sub>55</sub> films upon thermal annealing: Evidence from x-ray photoelectron spectra investigations. Journal of Applied Physics, 2007, 101, 113517.	1.1	42

#	ARTICLE	IF	CITATIONS
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