

Sang-Yung Shin

List of Publications by Year in descending order

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88
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361413

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88
all docs

88
docs citations

88
times ranked

752
citing authors

#	ARTICLE	IF	CITATIONS
1	Tunable wavelength filters based on dual polymer Bragg gratings and a mode sorting waveguide. , 2015, , .		0
2	Tunable channel-drop filters consisting of polymeric Bragg reflectors and a mode sorting asymmetric X-junction. Optics Express, 2015, 23, 17223.	3.4	12
3	Arrayed waveguide collimators for integrating free-space optics on polymeric waveguide devices. Optics Express, 2014, 22, 23801.	3.4	4
4	Investigation and Improvement of 90 [°] Direct Bends of Metal-Insulator-Silicon-Insulator-Metal Waveguides. IEEE Photonics Journal, 2013, 5, 6601909-6601909.	2.0	6
5	Characterizations of realized metal-insulator-silicon-insulator-metal waveguides and nanochannel fabrication via insulator removal. Optics Express, 2012, 20, 21875.	3.4	25
6	Design and analysis of a vertical directional coupler between a three-dimensional plasmonic slot waveguide and a silicon waveguide. Optics Communications, 2011, 284, 3522-3527.	2.1	4
7	Hybrid plasmonic waveguide for low-loss lightwave guiding. Optics Express, 2010, 18, 2808.	3.4	68
8	Silver Stripe Optical Waveguide for Chip-to-Chip Optical Interconnections. IEEE Photonics Technology Letters, 2009, 21, 902-904.	2.5	14
9	Influence of the Parameters of a Heater Array Inducing a Thermo-optic Long-Period Grating on Its Power Consumption. Journal of Lightwave Technology, 2009, 27, 1108-1113.	4.6	0
10	Ultrashort Polarization Splitter Using Two-Mode Interference in Silicon Photonic Wires. IEEE Photonics Technology Letters, 2009, 21, 432-434.	2.5	96
11	Silicon Photonic Wire Filter Using Asymmetric Sidewall Long-Period Waveguide Grating in a Two-Mode Waveguide. IEEE Photonics Technology Letters, 2008, 20, 520-522.	2.5	19
12	Polarization splitter using asymmetric sidewall long-period waveguide gratings in a two-mode silicon waveguide. , 2008, , .		0
13	Double component long period waveguide grating filter in sol-gel material. Optics Express, 2007, 15, 15147.	3.4	7
14	Theoretical investigation of a notch filter using a long-period grating based on the sampling theorem. Optics Communications, 2006, 263, 214-218.	2.1	3
15	Thermally stable optical characteristics of sol-gel hybrid material films. Applied Physics Letters, 2006, 88, 101916.	3.3	6
16	Experimental demonstration of a long-period grating based on the sampling theorem. Applied Physics Letters, 2006, 88, 211103.	3.3	9
17	Spectral tailoring of uniform long-period waveguide grating by the cladding thickness control. Optics Communications, 2005, 250, 41-47.	2.1	10
18	Characteristics of polymer waveguide notch filters using thermo-optic long-period gratings. IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 190-196.	2.9	26

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19	Refractive index sensitivity measurement of a long-period waveguide grating. IEEE Photonics Technology Letters, 2005, 17, 1923-1925.	2.5	24
20	Low Optical Loss Perfluorinated Methacrylates for a Single-Mode Polymer Waveguide. Chemistry of Materials, 2005, 17, 962-966.	6.7	41
21	Tunable polymer waveguide notch filter using a thermo-optic long-period grating. IEEE Photonics Technology Letters, 2005, 17, 145-147.	2.5	40
22	Polymer waveguide notch filter using two stacked thermo-optic long-period gratings. IEEE Photonics Technology Letters, 2005, 17, 792-794.	2.5	14
23	Refractive Index Sensitivity and Post-Fabrication Tuning in a Long-Period Waveguide Grating. , 2005, , .		0
24	Simple and fast numerical analysis of multilayer waveguide modes. Optics Communications, 2004, 233, 119-126.	2.1	31
25	Vertical Digital Thermo-optic Switch in Polymer. IEEE Photonics Technology Letters, 2004, 16, 783-785.	2.5	18
26	Tunable Polarization-Dependent Loss Element Based on Acousto-optic Mode Coupling in a Polarization-Maintaining Fiber. IEEE Photonics Technology Letters, 2004, 16, 1510-1512.	2.5	12
27	Fabrication of Ridge Waveguides by UV Embossing and Stamping of Sol-Gel Hybrid Materials. IEEE Photonics Technology Letters, 2004, 16, 1888-1890.	2.5	34
28	Tunable Notch Filter Using a Thermo-optic Long-Period Grating. Journal of Lightwave Technology, 2004, 22, 1968-1975.	4.6	28
29	Fabrication of an integrated optical filter using a large-core multimode waveguide vertically coupled to a single-mode waveguide. Optics Express, 2003, 11, 2211.	3.4	6
30	Simple analytical expression for the effect of initial interaction in - cerenkov second-harmonic generation. IEEE Journal of Quantum Electronics, 2003, 39, 516-522.	1.9	2
31	Mode determination of a general multilayer waveguide using a simple and fast numerical method. , 2003, , .		1
32	Filter using vertical coupling between a single-mode waveguide and a multimode waveguide. , 2002, , .		0
33	Grating-assisted codirectional coupler filter using electro-optic and passive polymer waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 819-825.	2.9	13
34	Post-fabrication tuning of a polymeric grating-assisted codirectional coupler filter by photobleaching. Optics Communications, 2001, 194, 309-312.	2.1	4
35	Fabrication of polymeric large-core waveguides for optical interconnects using a rubber molding process. IEEE Photonics Technology Letters, 2000, 12, 62-64.	2.5	44
36	Polarisation-independent phase modulator using electro-optic polymer. Electronics Letters, 2000, 36, 969.	1.0	9

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37	Limit of optical pulsewidth in the gain-switched DFB semiconductor laser. IEEE Photonics Technology Letters, 1999, 11, 782-784.	2.5	9
38	1 Å– 4 thermo-optic switch based on four-branch waveguide. Electronics Letters, 1999, 35, 1546.	1.0	5
39	Polymeric digital optical switch incorporating linear branch with modified coupling region. Electronics Letters, 1999, 35, 1245.	1.0	8
40	Lithium niobate integrated-optic voltage sensor with variable sensing ranges. Optics Communications, 1998, 152, 225-228.	2.1	29
41	Patterned birefringence by photoinduced depoling in electro-optic polymers and its application to a waveguide polarization splitter. Applied Physics Letters, 1998, 73, 3052-3054.	3.3	9
42	Dynamic gain and output power control in a gain-flattened erbium-doped fiber amplifier. IEEE Photonics Technology Letters, 1998, 10, 787-789.	2.5	41
43	TM-pass polarizer based on a photobleaching-induced waveguide in polymers. IEEE Photonics Technology Letters, 1998, 10, 836-838.	2.5	12
44	0.1-nm narrow bandwidth transmission of a 2.5-Gb/s spectrum-sliced incoherent light channel using an all-optical bandwidth expansion technique at the receiver. IEEE Photonics Technology Letters, 1998, 10, 1501-1503.	2.5	24
45	Four-branch single-mode waveguide power divider. IEEE Photonics Technology Letters, 1998, 10, 1760-1762.	2.5	11
46	Polarisation-insensitive digital optical switch using an electro-optic polymer rib waveguide. Electronics Letters, 1997, 33, 314.	1.0	11
47	Electro-optic polymer digital optical switch with photobleached waveguides and a self-aligned electrode. Optics Communications, 1997, 138, 298-300.	2.1	4
48	Poling-induced waveguide polarizers in electrooptic polymers. IEEE Photonics Technology Letters, 1996, 8, 375-377.	2.5	29
49	Integrated optical high-voltage sensor based on a polymeric Y-branch digital optical switch. IEEE Photonics Technology Letters, 1996, 8, 921-923.	2.5	9
50	Polymeric polarization-independent modulator incorporating twisted optic-axis waveguide polarization converters. IEEE Photonics Technology Letters, 1996, 8, 1483-1485.	2.5	11
51	TE-TM mode converter in a poled-polymer waveguide. IEEE Journal of Quantum Electronics, 1996, 32, 1054-1062.	1.9	21
52	Integrated Optical High-Voltage Sensor Based on a Polymeric Digital Optical Switch. , 1996, , .		0
53	Poling-Induced Waveguide Polarizers in Electro-Optic Polymers. , 1996, , .		1
54	Blue Light Generation in a Lithium Tantalate Waveguide Domain-Inverted by Heat Treatment with a Mask. , 1996, , .		0

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55	Optical adaptive neural networks with a ground glass for global random interconnections and local gain controls. Optical and Quantum Electronics, 1995, 27, 519-525.	3.3	0
56	2.5 Gbit/s transmission of spectrum-sliced fibre amplifier light source channels over 200 km of dispersion-shifted fibre. Electronics Letters, 1995, 31, 989-991.	1.0	18
57	Simulation of polarization converter formed by poling-induced polymer waveguides. IEEE Journal of Quantum Electronics, 1995, 31, 1698-1704.	1.9	16
58	Proton Exchanged LiNbO ₃ Ridge Waveguide Fabricated by Wet Etching Process. , 1995, , .		0
59	Perturbation solution of self-pulsing in semiconductor lasers with a saturable absorber. IEEE Journal of Quantum Electronics, 1994, 30, 1396-1404.	1.9	10
60	Y-cut LiNbO ₃ /directional coupler with a self-aligned electrode. Journal of Lightwave Technology, 1994, 12, 872-875.	4.6	2
61	Integrated optical high-voltage sensor using a Z-cut LiNbO ₃ /cutoff modulator. IEEE Photonics Technology Letters, 1993, 5, 996-999.	2.5	21
62	<title>Modified TAG neural network for large-scale optical implementation</title>. , 1992, , .		0
63	Fabrication of LiNbO ₃ /channel waveguides using water. IEEE Photonics Technology Letters, 1992, 4, 457-459.	2.5	9
64	<title>Proton-diffused channel waveguides on Y-cut LiNbO ₃ using a self-aligned SiO ₂ -cap diffusion method</title>. , 1991, , .		3
65	TAG: A Neural Network Model for Large-Scale Optical Implementation. Neural Computation, 1991, 3, 135-143.	2.2	12
66	OPTICAL TAG NEURAL NETWORKS FOR LARGE-SCALE IMPLEMENTATION. , 1991, , 1529-1532.		0
67	Control of mode profiles in proton-diffused LiNbO ₃ /waveguides using self-aligned SiO ₂ /cladding. IEEE Photonics Technology Letters, 1990, 2, 184-186.	2.5	13
68	Optical Implementation of Neural Networks with Fixed Global Interconnection and Local Adaptive Gain-Control. , 1990, , 611-614.		0
69	Optical neural-net analog-to-digital converter. Optics Letters, 1989, 14, 159.	3.3	3
70	Programmable quadratic associative memory using holographic lenslet arrays. Optics Letters, 1989, 14, 838.	3.3	24
71	Perturbation analysis of bistability and period doubling bifurcations in directly-modulated laser diodes. IEEE Journal of Quantum Electronics, 1989, 25, 1993-2000.	1.9	32
72	Optical implementation of the Hopfield model for two-dimensional associative memory. Optics Letters, 1988, 13, 248.	3.3	94

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73	Optical implementation of quadratic associative memory with outer-product storage. Optics Letters, 1988, 13, 693.	3.3	20
74	Optical implementation of associative memory with controlled bit-significance. Applied Optics, 1988, 27, 1921.	2.1	1
75	Parallel N^4 weighted optical interconnections: comments. Applied Optics, 1988, 27, 4364.	2.1	7
76	Design of corrugated waveguide filters by the Gel'fand-Levitan-Marchenko inverse-scattering method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1985, 2, 1905.	1.5	152
77	Scattering by right angle dielectric wedge. IEEE Transactions on Antennas and Propagation, 1984, 32, 61-69.	0.8	13
78	Inverse scattering problem for the coupled-wave equations when the reflection coefficient is a rational function. Proceedings of the IEEE, 1983, 71, 266-268.	21.3	17
79	An asymptotic approximation of linear-chirped grating filter response. Optics Communications, 1983, 44, 371-376.	2.1	2
80	Multiply Reflected Gaussian Beams in a Circular Cross Section. IEEE Transactions on Microwave Theory and Techniques, 1978, 26, 845-851.	4.6	10
81	Inhomogeneous wave tracking in anisotropic media. Proceedings of the IEEE, 1974, 62, 1609-1610.	21.3	3
82	Proton-outdiffusion effects on the domain inversion during the heat treatment of a proton-exchanged lithium tantalate. , 0, , .		0
83	Explicit vector beam propagation method for uniaxial poled polymer waveguide devices. , 0, , .		1
84	Lithium niobate integrated optical devices for voltage sensors. , 0, , .		0
85	TM-pass polarizer based on a photobleaching-induced waveguide in polymers. , 0, , .		0
86	Optical path monitoring and path dependent loss compensation for optical cross-connect systems. , 0, , .		1
87	Optical path monitoring based on the identification of optical cross-connect input ports. , 0, , .		6
88	1-4 thermo-optic switch based on the 4-branch waveguide. , 0, , .		0