Sang-Yung Shin

List of Publications by Year
in descending order

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88 papers	1,354 citations	361413 20 h-index	395702 33 g-index
88 all docs	88 docs citations	88 times ranked	752 citing authors

#	Article	IF	Citations
1	Design of corrugated waveguide filters by the Gelâ€™fandâ€“Levitanâ€“Marchenko inverse-scattering method. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1985, 2, 1905.	1.5	152
2	Ultrashort Polarization Splitter Using Two-Mode Interference in Silicon Photonic Wires. IEEE Photonics Technology Letters, 2009, 21, 432-434.	2.5	96
3	Optical implementation of the Hopfield model for two-dimensional associative memory. Optics Letters, 1988, 13, 248.	3.3	94
4	Hybrid plasmonic waveguide for low-loss lightwave guiding. Optics Express, 2010, 18, 2808.	3.4	68
5	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
6	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
7	Low Optical Loss Perfluorinated Methacrylates for a Single-Mode Polymer Waveguide. Chemistry of Materials, 2005, 17, 962-966.	6.7	41
8	Tunable polymer waveguide notch filter using a thermooptic long-period grating. IEEE Photonics Technology Letters, 2005, 17, 145-147.	2.5	40
9	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
10	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
11	Simple and fast numerical analysis of multilayer waveguide modes. Optics Communications, 2004, 233, 119-126.	2.1	31
12	Poling-induced waveguide polarizers in electrooptic polymers. IEEE Photonics Technology Letters, 1996, 8, 375-377.	2.5	29
13	Lithium niobate integrated-optic voltage sensor with variable sensing ranges. Optics Communications, 1998, 152, 225-228.	2.1	29
14	Tunable Notch Filter Using a Thermooptic Long-Period Grating. Journal of Lightwave Technology, 2004, 22, 1968-1975.	4.6	28
15	Characteristics of polymer waveguide notch filters using thermooptic long-period gratings. IEEE Journal of Selected Topics in Quantum Electronics, 2005, 11, 190-196.	2.9	26
16	Characterizations of realized metal-insulator-silicon-insulator-metal waveguides and nanochannel fabrication via insulator removal. Optics Express, 2012, 20, 21875.	3.4	25
17	Programmable quadratic associative memory using holographic lenslet arrays. Optics Letters, 1989, 14, 838.	3.3	24
18	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

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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	Integrated optical high-voltage sensor using a Z-cut LiNbO/sub 3/ cutoff modulator. IEEE Photonics Technology Letters, 1993, 5, 996-999.	2.5	21
21	TE-TM mode converter in a poled-polymer waveguide. IEEE Journal of Quantum Electronics, 1996, 32, 1054-1062.	1.9	21
22	Optical implementation of quadratic associative memory with outer-product storage. Optics Letters, 1988, 13, 693.	3.3	20
23	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
24	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
25	Vertical Digital Thermooptic Switch in Polymer. IEEE Photonics Technology Letters, 2004, 16, 783-785.	2.5	18
26	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
27	Simulation of polarization converter formed by poling-induced polymer waveguides. IEEE Journal of Quantum Electronics, 1995, 31, 1698-1704.	1.9	16
28	Polymer waveguide notch filter using two stacked thermooptic long-period gratings. IEEE Photonics Technology Letters, 2005, 17, 792-794.	2.5	14
29	Silver Stripe Optical Waveguide for Chip-to-Chip Optical Interconnections. IEEE Photonics Technology Letters, 2009, 21, 902-904.	2.5	14
30	Scattering by right angle dielectric wedge. IEEE Transactions on Antennas and Propagation, 1984, 32, 61-69.	0.8	13
31	Control of mode profiles in proton-diffused LiNbO/sub 3/ waveguides using self-aligned SiO/sub 2/ cladding. IEEE Photonics Technology Letters, 1990, 2, 184-186.	2.5	13
32	Grating-assisted codirectional coupler filter using electrooptic and passive polymer waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2001, 7, 819-825.	2.9	13
33	TAG: A Neural Network Model for Large-Scale Optical Implementation. Neural Computation, 1991, 3, 135-143.	2.2	12
34	TM-pass polarizer based on a photobleaching-induced waveguide in polymers. IEEE Photonics Technology Letters, 1998, 10, 836-838.	2.5	12
35	Tunable Polarization-Dependent Loss Element Based on Acoustooptic Mode Coupling in a Polarization-Maintaining Fiber. IEEE Photonics Technology Letters, 2004, 16, 1510-1512.	2.5	12
36	Tunable channel-drop filters consisting of polymeric Bragg reflectors and a mode sorting asymmetric X-junction. Optics Express, 2015, 23, 17223.	3.4	12

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37	Polymeric polarization-independent modulator incorporating twisted optic-axis waveguide polarization converters. IEEE Photonics Technology Letters, 1996, 8, 1483-1485.	2.5	11
38	Polarisation-insensitive digital optical switch using an electro-optic polymer rib waveguide. Electronics Letters, 1997, 33, 314.	1.0	11
39	Four-branch single-mode waveguide power divider. IEEE Photonics Technology Letters, 1998, 10, 1760-1762.	2.5	11
40	Multiply Reflected Gaussian Beams in a Circular Cross Section. IEEE Transactions on Microwave Theory and Techniques, 1978, 26, 845-851.	4.6	10
41	Perturbation solution of self-pulsing in semiconductor lasers with a saturable absorber. IEEE Journal of Quantum Electronics, 1994, 30, 1396-1404.	1.9	10
42	Spectral tailoring of uniform long-period waveguide grating by the cladding thickness control. Optics Communications, 2005, 250, 41-47.	2.1	10
43	Fabrication of LiNbO/sub 3/ channel waveguides using water. IEEE Photonics Technology Letters, 1992, 4, 457-459.	2.5	9
44	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
45	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
46	Limit of optical pulsewidth in the gain-switched DFB semiconductor laser. IEEE Photonics Technology Letters, 1999, 11, 782-784.	2.5	9
47	Experimental demonstration of a long-period grating based on the sampling theorem. Applied Physics Letters, 2006, 88, 211103.	3.3	9
48	Polarisation-independent phase modulator using electro-optic polymer. Electronics Letters, 2000, 36, 969.	1.0	9
49	Polymeric digital optical switch incorporating linear branch with modified coupling region. Electronics Letters, 1999, 35, 1245.	1.0	8
50	Parallel N^4 weighted optical interconnections: comments. Applied Optics, 1988, 27, 4364.	2.1	7
51	Double component long period waveguide grating filter in sol-gel material. Optics Express, 2007, 15, 15147.	3.4	7
52	Optical path monitoring based on the identification of optical cross-connect input ports. , 0, , .		6
53	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
54	Thermally stable optical characteristics of sol-gel hybrid material films. Applied Physics Letters, 2006, 88, 101916.	3.3	6

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55	Investigation and Improvement of 90^{circ} Direct Bends of Metalâ€“Insulatorâ€“Siliconâ€“Insulatorâ€“Metal Waveguides. IEEE Photonics Journal, 2013, 5, 6601909-6601909.	2.0	6
56	1 Ã— 4 thermo-optic switch based on four-branch waveguide. Electronics Letters, 1999, 35, 1546.	1.0	5
57	Electro-optic polymer digital optical switch with photobleached waveguides and a self-aligned electrode. Optics Communications, 1997, 138, 298-300.	2.1	4
58	Post-fabrication tuning of a polymeric grating-assisted codirectional coupler filter by photobleaching. Optics Communications, 2001, 194, 309-312.	2.1	4
59	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
60	Arrayed waveguide collimators for integrating free-space optics on polymeric waveguide devices. Optics Express, 2014, 22, 23801.	3.4	4
61	Inhomogeneous wave tracking in anisotropic media. Proceedings of the IEEE, 1974, 62, 1609-1610.	21.3	3
62	Optical neural-net analog-to-digital converter. Optics Letters, 1989, 14, 159.	3.3	3
63	<title>Proton-diffused channel waveguides on Y-cut LiNbO<formula><inf><roman>3</roman></inf></formula> using a self-aligned SiO<formula><inf><roman>2</roman></inf></formula>-cap diffusion method</title>. , 1991, , .		3
64	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
65	An asymptotic approximation of linear-chirped grating filter response. Optics Communications, 1983, 44, 371-376.	2.1	2
66	Y-cut LiNbO/sub 3/ directional coupler with a self-aligned electrode. Journal of Lightwave Technology, 1994, 12, 872-875.	4.6	2
67	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
68	Optical implementation of associative memory with controlled bit-significance. Applied Optics, 1988, 27, 1921.	2.1	1
69	Explicit vector beam propagation method for uniaxial poled polymer waveguide devices. , 0, , .		1
70	Optical path monitoring and path dependent loss compensation for optical cross-connect systems. , 0, , .		1
71	Poling-Induced Waveguide Polarizers in Electro-Optic Polymers. , 1996, , .		1
72	Mode determination of a general multilayer waveguide using a simple and fast numerical method. , 2003, , .		1

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73	<title>Modified TAG neural network for large-scale optical implementation</title>. , 1992, , .		0
74	Proton-outdiffusion effects on the domain inversion during the heat treatment of a proton-exchanged lithium tantalate. , 0, , .		0
75	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
76	Lithium niobate integrated optical devices for voltage sensors. , 0, , .		0
77	Integrated Optical High-Voltage Sensor Based on a Polymeric Digital Optical Switch. , 1996, , .		0
78	TM-pass polarizer based on a photobleaching-induced waveguide in polymers. , 0, , .		0
79	Polarization splitter using asymmetric sidewall long-period waveguide gratings in a two-mode silicon waveguide. , 2008, , .		0
80	Influence of the Parameters of a Heater Array Inducing a Thermooptic Long-Period Grating on Its Power Consumption. Journal of Lightwave Technology, 2009, 27, 1108-1113.	4.6	0
81	Tunable wavelength filters based on dual polymer Bragg gratings and a mode sorting waveguide. , 2015, , .		0
82	Filter using vertical coupling between a single-mode waveguide and a multimode waveguide. , 2002, , .		0
83	Refractive Index Sensitivity and Post-Fabrication Tuning in a Long-Period Waveguide Grating. , 2005, , .		0
84	Optical Implementation of Neural Networks with Fixed Global Interconnection and Local Adaptive Gain-Control. , 1990, , 611-614.		0
85	OPTICAL TAG NEURAL NETWORKS FOR LARGE-SCALE IMPLEMENTATION. , 1991, , 1529-1532.		0
86	Proton Exchanged LiNbO3 Ridge Waveguide Fabricated by Wet Etching Process. , 1995, , .		0
87	Blue Light Generation in a Lithium Tantalate Waveguide Domain-Inverted by Heat Treatment with a Mask. , 1996, , .		0
88	1Ã—4 thermo-optic switch based on the 4-branch waveguide. , 0, , .		0