

Hau Ping Chan

List of Publications by Year in descending order

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papers

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304743

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129
all docs

129
docs citations

129
times ranked

1246
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-Function Mode Processing Device for Mode Division Multiplexing Optical Networks. IEEE Photonics Technology Letters, 2021, 33, 101-104.	2.5	3
2	Three-mode multiplexer and demultiplexer based on the Mach-Zehnder interferometer. OSA Continuum, 2021, 4, 1519.	1.8	8
3	Quantitative study in coupling loss reduction under a large mode-field mismatch using a self-written waveguide. Optics Express, 2021, 29, 36745.	3.4	3
4	Comparative Study on Sensing Properties of Fiber-Coupled Microbottle Resonators With Polymer Materials. IEEE Sensors Journal, 2021, 21, 26681-26689.	4.7	5
5	Low-Cost Wet-Etching Method to Fabricate a Robust THz Tri-Layer Polarizer With a High Extinction Ratio. , 2021, , .		0
6	Sensing Characteristics of Fiber Fabry-Perot Sensors Based on Polymer Materials. IEEE Access, 2020, 8, 171316-171324.	4.2	10
7	Performance improvement of organic bulk-heterojunction solar cells using complementary plasmonic gold nanorods. Organic Electronics, 2020, 84, 105802.	2.6	7
8	Scalable selective high order mode pass filter architecture with asymmetric directional couplers. Optics Express, 2020, 28, 28465.	3.4	13
9	High-sensitivity magnetic sensor based on the evanescent scattering by a magnetorheological film. Optics Letters, 2020, 45, 6643.	3.3	9
10	Investigation of evanescent scattering for low-distortion submicron vibration sensing using ferromagnetic cantilevers. Optics Express, 2020, 28, 12243.	3.4	1
11	Robust and accurate terahertz time-domain spectroscopic ellipsometry. Photonics Research, 2018, 6, 768.	7.0	20
12	Precise control of evanescent scattering by self-assembled ferromagnetic particles for optical sensing with tunable sensitivity. Optics Letters, 2018, 43, 5889.	3.3	4
13	Broadband higher-order mode pass filter based on mode conversion. , 2017, , .		0
14	Broadband high-order mode pass filter based on mode conversion. Optics Letters, 2017, 42, 3686.	3.3	40
15	Investigation on stress/strain sensing characteristics for magnetorheological smart composite material by a SMS fiber structure. , 2015, , .		0
16	Generalized characteristics of photo-elastic birefringence in polymer strip waveguides. Optical Materials Express, 2015, 5, 1030.	3.0	3
17	Corrections to "Low Loss, High Extinction Ration and Ultra-Compact Plasmonic Polarization Beam Splitter" [Apr 1 2014 660-663]. IEEE Photonics Technology Letters, 2014, 26, 2413-2413.	2.5	0
18	Characteristics of stress-birefringence in polymer optical strip waveguides with air cladding. , 2014, , .		0

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19	UV exposure on a single-mode fiber within a multimode interference structure. Optics Letters, 2014, 39, 6521.	3.3	3
20	High extinction ratio and low transmission loss thin-film terahertz polarizer with a tunable bilayer metal wire-grid structure. Optics Letters, 2014, 39, 793.	3.3	49
21	Reconfigurable two-mode mux/demux device. Optics Express, 2014, 22, 9282.	3.4	44
22	Efficient design of polarization insensitive polymer optical waveguide devices considering stress-induced effects. Optics Express, 2014, 22, 9334.	3.4	7
23	The use of a bend singlemodeâ€“multimodeâ€“singlemode (SMS) fibre structure for vibration sensing. Optics and Laser Technology, 2014, 63, 29-33.	4.6	28
24	Low Loss, High Extinction Ration and Ultra-Compact Plasmonic Polarization Beam Splitter. IEEE Photonics Technology Letters, 2014, 26, 660-663.	2.5	23
25	Two-mode mode multiplexer/demultiplexer in polymer planar waveguide. Applied Optics, 2014, 53, 496.	1.8	8
26	Sensitivity enhancement for a multimode fiber sensor with an axisymmetric metal grating layer. Photonics and Nanostructures - Fundamentals and Applications, 2014, 12, 69-74.	2.0	16
27	Hybrid plasmonic biosensor for simultaneous measurement of both thickness and refractive index. Infrared Physics and Technology, 2013, 60, 134-136.	2.9	8
28	Characterization of a Fiber Bragg Grating for Use in a THz Spectrometer. IEEE Photonics Technology Letters, 2013, 25, 734-736.	2.5	2
29	Porous Polyethylene Terephthalate Optical Waveguide for Sensing Applications. IEEE Photonics Technology Letters, 2013, 25, 1672-1675.	2.5	3
30	Design and Fabrication of a Polarization Independent Tunable Interleaver. Journal of Lightwave Technology, 2013, 31, 3694-3699.	4.6	4
31	Robust Thin-Film Wire-Grid THz Polarizer Fabricated Via a Low-Cost Approach. IEEE Photonics Technology Letters, 2013, 25, 81-84.	2.5	48
32	Dual-Function Radiating Glass for Antennas and Light Coversâ€“Part I: Omnidirectional Glass Dielectric Resonator Antennas. IEEE Transactions on Antennas and Propagation, 2013, 61, 578-586.	5.1	61
33	Dual-Function Radiating Glass for Antennas and Light Coversâ€“Part II: Dual-Band Glass Dielectric Resonator Antennas. IEEE Transactions on Antennas and Propagation, 2013, 61, 587-597.	5.1	47
34	Novel Dielectric-Loaded Plasmonic Waveguide for Tight-Confined Hybrid Plasmon Mode. Plasmonics, 2013, 8, 1259-1263.	3.4	8
35	Planar Optical Waveguide Platform for Gas Sensing Using Liquid Crystal. IEEE Sensors Journal, 2013, 13, 2521-2522.	4.7	14
36	Experimental study on the performance of a variable optical attenuator using polymer dispersed liquid crystal. Applied Optics, 2013, 52, E15.	1.8	14

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37	Terahertz filter with tailored passband using multiple phase shifted fiber Bragg gratings. Optics Letters, 2013, 38, 260.	3.3	8
38	Apodization of terahertz Bragg gratings in subwavelength polymer fiber. Optics Letters, 2013, 38, 2807.	3.3	5
39	Apodized fiber Bragg gratings for terahertz applications. , 2013, , .		0
40	Industry Compatible Embossing Process for the Fabrication of Waveguide-Embedded Optical Printed Circuit Boards. Journal of Lightwave Technology, 2013, 31, 4045-4050.	4.6	14
41	Enhanced RI sensor using a combination of a long period fiber grating and a small core singlemode fiber (SCSMF) structure. Proceedings of SPIE, 2012, , .	0.8	0
42	A novel biosensor based on a coupled surface plasmon nanostructure. , 2012, , .		0
43	Characterization and modeling of Bragg gratings written in polymer fiber for use as filters in the THz region. Optics Express, 2012, 20, 9564.	3.4	55
44	Accurate photoconductive antenna characterization using a thin film polarizer. Applied Physics Letters, 2012, 101, 121108.	3.3	9
45	Silicon Oxynitride Optical Waveguide Ring Resonator Utilizing a Two-Mode Interferometer Structure. International Journal of Photoenergy, 2012, 2012, 1-5.	2.5	1
46	Phase-Shifted Fiber Bragg Gratings for Terahertz Range. IEEE Photonics Technology Letters, 2012, 24, 1875-1877.	2.5	9
47	Fabrication of a metal wire-grid THz polarizer with a low-cost manufacturing approach. , 2012, , .		0
48	Polymer Fiber Polarizer for Terahertz Applications. IEEE Photonics Technology Letters, 2012, 24, 1490-1492.	2.5	5
49	Realization of Polymer-Based Polarization-Insensitive Interleaver Using Multilayer Waveguide Structure. IEEE Photonics Technology Letters, 2011, 23, 1154-1156.	2.5	3
50	Bottom-Heating Approach for the Realization of Thermo-optic Polymer Waveguide Devices. IEEE Photonics Technology Letters, 2011, 23, 155-157.	2.5	2
51	Optical alignment tolerances in double-side irradiated self-written waveguide-induced fiber arrays packages. Optics Communications, 2010, 283, 2669-2675.	2.1	9
52	An accurate analysis for two-mode interferometer based Mach-Zehnder interferometers interleaver. Optics Communications, 2010, 283, 4639-4644.	2.1	3
53	Simultaneous measurement of thermo-optic and stress-optic coefficients of polymer thin films using prism coupler technique. Applied Optics, 2010, 49, 403.	2.1	16
54	Low-loss ultracompact optical power splitter using a multistep structure. Applied Optics, 2010, 49, 1900.	2.1	5

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55	Study of optical anisotropies in benzocyclobutene thin films for the efficient design of optical waveguide devices. Optics Express, 2010, 18, 8896.	3.4	3
56	Ultraviolet writing of buried waveguide devices in epoxy-coated benzocyclobutene. Optical Engineering, 2009, 48, 044601.	1.0	3
57	The challenges in the fabrication of reliable polymer photonic devices. Journal of Materials Science: Materials in Electronics, 2009, 20, 277-281.	2.2	11
58	UV-written long-period waveguide grating coupler for broadband add/drop multiplexing. Optics Communications, 2009, 282, 378-381.	2.1	10
59	A flattop PLC polymer waveguide interleaver based on folded two-stage-cascaded Y-junction Mach-Zehnder interferometers. Optics Communications, 2009, 282, 883-886.	2.1	12
60	Stress-Induced Birefringence Characteristics of Polymer Optical Rib Waveguides. Journal of Lightwave Technology, 2009, 27, 4678-4685.	4.6	11
61	Polymer planar waveguide device using inverted channel structure with upper liquid crystal cladding. Optics Express, 2009, 17, 7837.	3.4	19
62	A Polarization Insensitive Three-Dimensional Waveguide Interleaver. , 2009, , .		0
63	Silicon oxynitride integrated waveguide for on-chip optical interconnects applications. Microelectronics Reliability, 2008, 48, 212-218.	1.7	8
64	Analysis of a Y-junction optical waveguide interleaver. Optics Communications, 2008, 281, 4014-4018.	2.1	1
65	Growth of c-axis orientation ZnO films on polymer substrates by radio-frequency magnetron sputtering. Optical Materials, 2008, 30, 1244-1250.	3.6	13
66	Broadband Multiport Dynamic Optical Power Distributor Based on Thermo-optic Polymer Waveguide Vertical Couplers. IEEE Photonics Technology Letters, 2008, 20, 273-275.	2.5	5
67	Lithium-Niobate Channel Waveguide for the Realization of Long-Period Gratings. IEEE Photonics Technology Letters, 2008, 20, 1258-1260.	2.5	12
68	An Easily Operating Polymer 1 λ -4 Optical Waveguide Switch Matrix Based on Vertical Couplers. Chinese Physics Letters, 2007, 24, 1728-1730.	3.3	1
69	Three-Dimensional Switch Matrix based on Polymer Optical Waveguides. , 2007, , .		0
70	Mach-Zehnder Electro-Optic Modulator Based on Epitaxial Ba _{0.7} Sr _{0.3} TiO ₃ Thin Films. Ferroelectrics, 2007, 357, 109-114.	0.6	2
71	Three-dimensional broadband polymer optical waveguide switch matrix. Applied Optics, 2007, 46, 8188.	2.1	4
72	Three-dimensional polymer optical waveguide interleaver with selectable channel spacing. Optics Communications, 2007, 273, 394-397.	2.1	6

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73	Compact tunable three-dimensional polymer optical waveguide comb filter. Optics Communications, 2007, 277, 89-92.	2.1	5
74	Interfacial adhesion of polymeric adhesive film on different surfaces in the fabrication of polymer photonic devices. Journal of Materials Science: Materials in Electronics, 2007, 18, 655-663.	2.2	5
75	The transmission modes and losses of the poled nano-crystal and polymer composite PbTiO ₃ /PEK-c thin-film waveguides. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 66-69.	1.0	0
76	Band-rejection filter with widely tunable center wavelength and contrast using metal long-period grating on polymer waveguide. IEEE Photonics Technology Letters, 2006, 18, 1109-1111.	2.5	32
77	Design and fabrication of a broadband polymer vertically coupled optical switch. Journal of Lightwave Technology, 2006, 24, 904-911.	4.6	23
78	Uneven curing induced interfacial delamination of UV adhesive-bonded fiber array in V-groove for photonic packaging. Journal of Lightwave Technology, 2006, 24, 1342-1349.	4.6	18
79	General design approach to multichannel fiber Bragg grating. Journal of Lightwave Technology, 2006, 24, 1571-1580.	4.6	27
80	UV-written buried waveguides in benzocyclobutene. Proceedings of SPIE, 2006, 6351, 410.	0.8	3
81	Polymer-waveguide-based vertical coupler. Optics Communications, 2006, 260, 511-513.	2.1	5
82	A Y-junction polymer optical waveguide interleaver. Optics Communications, 2006, 267, 373-378.	2.1	12
83	Minimizing hydrogen content in silicon oxynitride by thermal oxidation of silicon-rich silicon nitride. Microelectronics Reliability, 2006, 46, 2056-2061.	1.7	9
84	A 1 λ -4 polarization and wavelength independent optical power splitter based on a novel wide-angle low-loss Y-junction. Optics Communications, 2006, 267, 367-372.	2.1	40
85	Optical rib waveguide based on epitaxial Ba _{0.7} Sr _{0.3} TiO ₃ thin film grown on MgO. Thin Solid Films, 2006, 510, 329-333.	1.8	16
86	Polarization-insensitive polymer waveguide Bragg gratings. Microwave and Optical Technology Letters, 2006, 48, 334-338.	1.4	9
87	A compact polymer variable optical attenuator using wide-angle X-junction structure. , 2005, , .		2
88	Design and fabrication of a three-dimensional polymer optical waveguide polarization splitter. Optics Communications, 2005, 250, 297-301.	2.1	13
89	Preparation and optical constants of the nano-crystal and polymer composite Bi ₄ Ti ₃ O ₁₂ /PMMA thin films. Optics and Laser Technology, 2005, 37, 259-264.	4.6	22
90	A vertically coupled polymer optical waveguide switch. Optics Communications, 2005, 244, 153-158.	2.1	36

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91	Annealing effects on the loss and birefringence of silicon oxynitride rectangular optical waveguides. Applied Physics Letters, 2005, 87, 101105.	3.3	6
92	Integrated liquid crystal optical switch based on total internal reflection. Applied Physics Letters, 2005, 86, 211108.	3.3	40
93	Pulsed Laser Deposition of Ba _{0.6} Sr _{0.4} TiO ₃ Thin Films and Their Optical Properties. Integrated Ferroelectrics, 2005, 69, 443-451.	0.7	2
94	UV-written buried waveguide devices in epoxy-coated benzocyclobutene. , 2005, , .		1
95	New sampling-based design of simultaneous compensation of both dispersion and dispersion slope for multichannel fiber Bragg gratings. IEEE Photonics Technology Letters, 2005, 17, 381-383.	2.5	12
96	Polarization dependence in polymer waveguide directional couplers. IEEE Photonics Technology Letters, 2005, 17, 1465-1467.	2.5	6
97	Polymer-based compact comb filter with flat top response. IEEE Photonics Technology Letters, 2005, 17, 2619-2621.	2.5	4
98	Widely tunable polymer long-period waveguide grating with polarisation-insensitive resonance wavelength. Electronics Letters, 2004, 40, 422.	1.0	45
99	Adhesion strength and contact resistance of flip chip on flex packagesâ€™ effect of curing degree of anisotropic conductive film. Microelectronics Reliability, 2004, 44, 505-514.	1.7	89
100	Physicochemical properties and theoretical explanation of ZnCd(SCN) ₄ crystal. Materials Research Bulletin, 2004, 39, 1407-1416.	5.2	7
101	Study on the properties of a nanocrystal and polymer composite PbTiO ₃ /PEK-c film with optical anisotropy. Journal of Materials Science, 2004, 39, 6577-6582.	3.7	3
102	Effects of pH and hydrogen-bonding on the growth and characterization of ZnCd(SCN) ₄ . Journal of Crystal Growth, 2004, 267, 263-269.	1.5	11
103	Investigation on bondability and reliability of UV-curable adhesive joints for stable mechanical properties in photonic device packaging. Microelectronics Reliability, 2004, 44, 823-831.	1.7	18
104	Long-Period Waveguide Gratings. Japanese Journal of Applied Physics, 2004, 43, 5690-5696.	1.5	15
105	Thermal and Chemical Stability of a Spin-Coated Epoxy Adhesive for the Fabrication of a Polymer Optical Waveguide. Chemistry of Materials, 2004, 16, 4806-4811.	6.7	19
106	Delamination Problems of UV-Cured Adhesive Bonded Optical Fiber in V-Groove for Photonic Packaging. IEEE Photonics Technology Letters, 2004, 16, 1113-1115.	2.5	12
107	Birefringence characteristics of benzocyclobutene rib optical waveguides. Electronics Letters, 2004, 40, 372.	1.0	14
108	Preparation and characterization of a poled nanocrystal and polymer composite PbTiO ₃ /PEKc film for electro-optic applications. Applied Physics A: Materials Science and Processing, 2003, 76, 183-186.	2.3	9

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109	Birefringence in benzocyclobutene strip optical waveguides. IEEE Photonics Technology Letters, 2003, 15, 700-702.	2.5	32
110	Widely tunable long-period gratings fabricated in polymer-clad ion-exchanged glass waveguides. IEEE Photonics Technology Letters, 2003, 15, 1094-1096.	2.5	81
111	A wide-angle X-junction polymeric thermo-optic digital switch with low crosstalk. IEEE Photonics Technology Letters, 2003, 15, 1210-1212.	2.5	14
112	<title>Encryption techniques to the design of e-beam-generated digital pixel hologram for anti-counterfeiting</title>. , 2002, , .		0
113	A wide-angle X-junction in polymer using truncated-structural branches (TSB). Journal of Lightwave Technology, 2002, 20, 86-91.	4.6	13
114	A novel approach for fabricating light-emitting porous polysilicon films. Microelectronics Reliability, 2002, 42, 929-933.	1.7	8
115	Refractive index dispersion measurement on nano-crystal and polymer composite Bi ₄ Ti ₃ O ₁₂ /PEK-c films. Journal of Materials Science Letters, 2002, 21, 677-678.	0.5	2
116	Refractive-index profiling of graded-index planar waveguides. , 2001, , .		0
117	A push-pull digital optical switch (DOS) in polymer using truncated-structural X-branches (TSXB). Microwave and Optical Technology Letters, 2001, 30, 208-211.	1.4	0
118	The WDM performance of compact X-junction switches in polymer. Microwave and Optical Technology Letters, 2001, 28, 423-426.	1.4	2
119	<title>Fabrication of UV-sensitive waveguides for integrated photonics applications</title>. , 2000, 4110, 316.		0
120	<title>Fabrication of long-period waveguide gratings</title>. , 2000, , .		0
121	A digital optical switch (DOS) in polymer using truncated-structural X-branches (TSXB). Microwave and Optical Technology Letters, 2000, 27, 229-233.	1.4	3
122	Refractive-index profiling of graded-index planar waveguides from effective indexes measured with different external refractive indexes. Journal of Lightwave Technology, 2000, 18, 1412-1417.	4.6	22
123	A wide-angle polymeric Y-junction using gradient-index (GRIN) zones. Microwave and Optical Technology Letters, 1999, 22, 126-129.	1.4	5
124	Refractive-index profiling of graded-index planar waveguides from effective indexes measured for both mode types and at different wavelengths. Journal of Lightwave Technology, 1996, 14, 827-832.	4.6	17
125	Novel design of low-loss wide-angle symmetric Y-branch waveguides. Microwave and Optical Technology Letters, 1996, 11, 87-89.	1.4	9
126	Low loss wide-angle symmetric Y-branch waveguide. Electronics Letters, 1996, 32, 652.	1.0	22

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127	Index profile of proton-exchanged waveguides in LiNbO ₃ using pyrophosphoric acid. Electronics Letters, 1990, 26, 81.	1.0	10
128	Novel design of wide-angle single-mode symmetric y-junctions. Electronics Letters, 1988, 24, 1184.	1.0	38
129	Single-mode 1 Å–3 integrated optical branching circuit design using phase-front accelerators. Electronics Letters, 1988, 24, 1365.	1.0	28