Hau Ping Chan

List of Publications by Year
in descending order

129	1,674	304743	377865
papers	citations	22 h-index	34 g-index

129	129	129	1246
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adhesion strength and contact resistance of flip chip on flex packagesâ€“â€“effect of curing degree of anisotropic conductive film. Microelectronics Reliability, 2004, 44, 505-514.	1.7	89
2	Widely tunable long-period gratings fabricated in polymer-clad ion-exchanged glass waveguides. IEEE Photonics Technology Letters, 2003, 15, 1094-1096.	2.5	81
3	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
4	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
5	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
6	Robust Thin-Film Wire-Grid THz Polarizer Fabricated Via a Low-Cost Approach. IEEE Photonics Technology Letters, 2013, 25, 81-84.	2.5	48
7	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
8	Widely tunable polymer long-period waveguide grating with polarisation-insensitive resonance wavelength. Electronics Letters, 2004, 40, 422.	1.0	45
9	Reconfigurable two-mode mux/demux device. Optics Express, 2014, 22, 9282.	3.4	44
10	Integrated liquid crystal optical switch based on total internal reflection. Applied Physics Letters, 2005, 86, 211108.	3.3	40
11	A 1Ã—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
12	Broadband high-order mode pass filter based on mode conversion. Optics Letters, 2017, 42, 3686.	3.3	40
13	Novel design of wide-angle single-mode symmetric y-junctions. Electronics Letters, 1988, 24, 1184.	1.0	38
14	A vertically coupled polymer optical waveguide switch. Optics Communications, 2005, 244, 153-158.	2.1	36
15	Birefringence in benzocyclobutene strip optical waveguides. IEEE Photonics Technology Letters, 2003, 15, 700-702.	2.5	32
16	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
17	Single-mode 1 Ã— 3 integrated optical branching circuit design using phase-front accelerators. Electronics Letters, 1988, 24, 1365.	1.0	28
18	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

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19	General design approach to multichannel fiber Bragg grating. Journal of Lightwave Technology, 2006, 24, 1571-1580.	4.6	27
20	Design and fabrication of a broadband polymer vertically coupled optical switch. Journal of Lightwave Technology, 2006, 24, 904-911.	4.6	23
21	Low Loss, High Extinction Ration and Ultra-Compact Plasmonic Polarization Beam Splitter. IEEE Photonics Technology Letters, 2014, 26, 660-663.	2.5	23
22	Low loss wide-angle symmetric Y-branch waveguide. Electronics Letters, 1996, 32, 652.	1.0	22
23	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
24	Preparation and optical constants of the nano-crystal and polymer composite Bi4Ti3O12/PMMA thin films. Optics and Laser Technology, 2005, 37, 259-264.	4.6	22
25	Robust and accurate terahertz time-domain spectroscopic ellipsometry. Photonics Research, 2018, 6, 768.	7.0	20
26	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
27	Polymer planar waveguide device using inverted channel structure with upper liquid crystal cladding. Optics Express, 2009, 17, 7837.	3.4	19
28	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
29	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
30	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
31	Optical rib waveguide based on epitaxial Ba0.7Sr0.3TiO3 thin film grown on MgO. Thin Solid Films, 2006, 510, 329-333.	1.8	16
32	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
33	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
34	Long-Period Waveguide Gratings. Japanese Journal of Applied Physics, 2004, 43, 5690-5696.	1.5	15
35	A wide-angle X-junction polymeric thermooptic digital switch with low crosstalk. IEEE Photonics Technology Letters, 2003, 15, 1210-1212.	2.5	14
36	Birefringence characteristics of benzocyclobutene rib optical waveguides. Electronics Letters, 2004, 40, 372.	1.0	14

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37	Planar Optical Waveguide Platform for Gas Sensing Using Liquid Crystal. IEEE Sensors Journal, 2013, 13, 2521-2522.	4.7	14
38	Experimental study on the performance of a variable optical attenuator using polymer dispersed liquid crystal. Applied Optics, 2013, 52, E15.	1.8	14
39	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
40	A wide-angle X-junction in polymer using truncated-structural branches (TSB). Journal of Lightwave Technology, 2002, 20, 86-91.	4.6	13
41	Design and fabrication of a three-dimensional polymer optical waveguide polarization splitter. Optics Communications, 2005, 250, 297-301.	2.1	13
42	Growth of c-axis orientation ZnO films on polymer substrates by radio-frequency magnetron sputtering. Optical Materials, 2008, 30, 1244-1250.	3.6	13
43	Scalable selective high order mode pass filter architecture with asymmetric directional couplers. Optics Express, 2020, 28, 28465.	3.4	13
44	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
45	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
46	A Y-junction polymer optical waveguide interleaver. Optics Communications, 2006, 267, 373-378.	2.1	12
47	Lithiumâ€“Niobate Channel Waveguide for the Realization of Long-Period Gratings. IEEE Photonics Technology Letters, 2008, 20, 1258-1260.	2.5	12
48	A flattop PLC polymer waveguide interleaver based on folded two-stage-cascaded Y-junction Machâ€“Zehnder interferometers. Optics Communications, 2009, 282, 883-886.	2.1	12
49	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
50	The challenges in the fabrication of reliable polymer photonic devices. Journal of Materials Science: Materials in Electronics, 2009, 20, 277-281.	2.2	11
51	Stress-Induced Birefringence Characteristics of Polymer Optical Rib Waveguides. Journal of Lightwave Technology, 2009, 27, 4678-4685.	4.6	11
52	Index profile of proton-exchanged waveguides in LiNbO3 using pyrophosphoric acid. Electronics Letters, 1990, 26, 81.	1.0	10
53	UV-written long-period waveguide grating coupler for broadband add/drop multiplexing. Optics Communications, 2009, 282, 378-381.	2.1	10
54	Sensing Characteristics of Fiber Fabry-Perot Sensors Based on Polymer Materials. IEEE Access, 2020, 8, 171316-171324.	4.2	10

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55	Novel design of low-loss wide-angle symmetric Y-branch waveguides. Microwave and Optical Technology Letters, 1996, 11, 87-89.	1.4	9
56	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
57	Minimizing hydrogen content in silicon oxynitride by thermal oxidation of silicon-rich silicon nitride. Microelectronics Reliability, 2006, 46, 2056-2061.	1.7	9
58	Polarization-insensitive polymer waveguide Bragg gratings. Microwave and Optical Technology Letters, 2006, 48, 334-338.	1.4	9
59	Optical alignment tolerances in double-side irradiated self-written waveguide-induced fiber arrays packages. Optics Communications, 2010, 283, 2669-2675.	2.1	9
60	Accurate photoconductive antenna characterization using a thin film polarizer. Applied Physics Letters, 2012, 101, 121108.	3.3	9
61	Phase-Shifted Fiber Bragg Gratings for Terahertz Range. IEEE Photonics Technology Letters, 2012, 24, 1875-1877.	2.5	9
62	High-sensitivity magnetic sensor based on the evanescent scattering by a magnetorheological film. Optics Letters, 2020, 45, 6643.	3.3	9
63	A novel approach for fabricating light-emitting porous polysilicon films. Microelectronics Reliability, 2002, 42, 929-933.	1.7	8
64	Silicon oxynitride integrated waveguide for on-chip optical interconnects applications. Microelectronics Reliability, 2008, 48, 212-218.	1.7	8
65	Hybrid plasmonic biosensor for simultaneous measurement of both thickness and refractive index. Infrared Physics and Technology, 2013, 60, 134-136.	2.9	8
66	Novel Dielectric-Loaded Plasmonic Waveguide for Tight-Confined Hybrid Plasmon Mode. Plasmonics, 2013, 8, 1259-1263.	3.4	8
67	Terahertz filter with tailored passband using multiple phase shifted fiber Bragg gratings. Optics Letters, 2013, 38, 260.	3.3	8
68	Two-mode mode multiplexer/demultiplexer in polymer planar waveguide. Applied Optics, 2014, 53, 496.	1.8	8
69	Three-mode multiplexer and demultiplexer based on the Mach-Zehnder interferometer. OSA Continuum, 2021, 4, 1519.	1.8	8
70	Physicochemical properties and theoretical explanation of ZnCd(SCN)4 crystal. Materials Research Bulletin, 2004, 39, 1407-1416.	5.2	7
71	Efficient design of polarization insensitive polymer optical waveguide devices considering stress-induced effects. Optics Express, 2014, 22, 9334.	3.4	7
72	Performance improvement of organic bulk-heterojunction solar cells using complementary plasmonic gold nanorods. Organic Electronics, 2020, 84, 105802.	2.6	7

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73	Annealing effects on the loss and birefringence of silicon oxynitride rectangular optical waveguides. Applied Physics Letters, 2005, 87, 101105.	3.3	6
74	Polarization dependence in polymer waveguide directional couplers. IEEE Photonics Technology Letters, 2005, 17, 1465-1467.	2.5	6
75	Three-dimensional polymer optical waveguide interleaver with selectable channel spacing. Optics Communications, 2007, 273, 394-397.	2.1	6
76	A wide-angle polymeric Y-junction using gradient-index (GRIN) zones. Microwave and Optical Technology Letters, 1999, 22, 126-129.	1.4	5
77	Polymer-waveguide-based vertical coupler. Optics Communications, 2006, 260, 511-513.	2.1	5
78	Compact tunable three-dimensional polymer optical waveguide comb filter. Optics Communications, 2007, 277, 89-92.	2.1	5
79	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
80	Broadband Multiport Dynamic Optical Power Distributor Based on Thermooptic Polymer Waveguide Vertical Couplers. IEEE Photonics Technology Letters, 2008, 20, 273-275.	2.5	5
81	Low-loss ultracompact optical power splitter using a multistep structure. Applied Optics, 2010, 49, 1900.	2.1	5
82	Polymer Fiber Polarizer for Terahertz Applications. IEEE Photonics Technology Letters, 2012, 24, 1490-1492.	2.5	5
83	Apodization of terahertz Bragg gratings in subwavelength polymer fiber. Optics Letters, 2013, 38, 2807.	3.3	5
84	Comparative Study on Sensing Properties of Fiber-Coupled Microbottle Resonators With Polymer Materials. IEEE Sensors Journal, 2021, 21, 26681-26689.	4.7	5
85	Polymer-based compact comb filter with flat top response. IEEE Photonics Technology Letters, 2005, 17, 2619-2621.	2.5	4
86	Three-dimensional broadband polymer optical waveguide switch matrix. Applied Optics, 2007, 46, 8188.	2.1	4
87	Design and Fabrication of a Polarization Independent Tunable Interleaver. Journal of Lightwave Technology, 2013, 31, 3694-3699.	4.6	4
88	Precise control of evanescent scattering by self-assembled ferromagnetic particles for optical sensing with tunable sensitivity. Optics Letters, 2018, 43, 5889.	3.3	4
89	A digital optical switch (DOS) in polymer using truncated-structuralX-branches (TSXB). Microwave and Optical Technology Letters, 2000, 27, 229-233.	1.4	3
90	Study on the properties of a nanocrystal and polymer composite PbTiO₃/PEK-c film with optical anisotropy. Journal of Materials Science, 2004, 39, 6577-6582.	3.7	3

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91	UV-written buried waveguides in benzocyclobutene. Proceedings of SPIE, 2006, 6351, 410.	0.8	3
92	Ultraviolet writing of buried waveguide devices in epoxy-coated benzocyclobutene. Optical Engineering, 2009, 48, 044601.	1.0	3
93	An accurate analysis for two-mode interferometer based Machâ€“Zehnder interferometers interleaver. Optics Communications, 2010, 283, 4639-4644.	2.1	3
94	Study of optical anisotropies in benzocyclobutene thin films for the efficient design of optical waveguide devices. Optics Express, 2010, 18, 8896.	3.4	3
95	Realization of Polymer-Based Polarization-Insensitive Interleaver Using Multilayer Waveguide Structure. IEEE Photonics Technology Letters, 2011, 23, 1154-1156.	2.5	3
96	Porous Polyethylene Terephthalate Optical Waveguide for Sensing Applications. IEEE Photonics Technology Letters, 2013, 25, 1672-1675.	2.5	3
97	UV exposure on a single-mode fiber within a multimode interference structure. Optics Letters, 2014, 39, 6521.	3.3	3
98	Generalized characteristics of photo-elastic birefringence in polymer strip waveguides. Optical Materials Express, 2015, 5, 1030.	3.0	3
99	Multi-Function Mode Processing Device for Mode Division Multiplexing Optical Networks. IEEE Photonics Technology Letters, 2021, 33, 101-104.	2.5	3
100	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
101	The WDM performance of compactX-junction switches in polymer. Microwave and Optical Technology Letters, 2001, 28, 423-426.	1.4	2
102	Refractive index dispersion measurement on nano-crystal and polymer composite Bi4Ti3O12/PEK-c films. Journal of Materials Science Letters, 2002, 21, 677-678.	0.5	2
103	A compact polymer variable optical attenuator using wide-angle X-junction structure. , 2005, , .		2
104	Pulsed Laser Deposition of Ba0.6Sr0.4TiO3 Thin Films and Their Optical Properties. Integrated Ferroelectrics, 2005, 69, 443-451.	0.7	2
105	Mach-Zehnder Electro-Optic Modulator Based on Epitaxial Ba_{0.7}Sr_{0.3}TiO₃Thin Films. Ferroelectrics, 2007, 357, 109-114.	0.6	2
106	Bottom-Heating Approach for the Realization of Thermooptic Polymer Waveguide Devices. IEEE Photonics Technology Letters, 2011, 23, 155-157.	2.5	2
107	Characterization of a Fiber Bragg Grating for Use in a THz Spectrometer. IEEE Photonics Technology Letters, 2013, 25, 734-736.	2.5	2
108	UV-written buried waveguide devices in epoxy-coated benzocyclobutene. , 2005, , .		1

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109	An Easily Operating Polymer 1Ã—4 Optical Waveguide Switch Matrix Based on Vertical Couplers. Chinese Physics Letters, 2007, 24, 1728-1730.	3.3	1
110	Analysis of a Y-junction optical waveguide interleaver. Optics Communications, 2008, 281, 4014-4018.	2.1	1
111	Silicon Oxynitride Optical Waveguide Ring Resonator Utilizing a Two-Mode Interferometer Structure. International Journal of Photoenergy, 2012, 2012, 1-5.	2.5	1
112	Investigation of evanescent scattering for low-distortion submicron vibration sensing using ferromagnetic cantilevers. Optics Express, 2020, 28, 12243.	3.4	1
113	<title>Fabrication of UV-sensitive waveguides for integrated photonics applications</title>. , 2000, 4110, 316.		0
114	<title>Fabrication of long-period waveguide gratings</title>. , 2000, , .		0
115	Refractive-index profiling of graded-index planar waveguides. , 2001, , .		0
116	A push-pull digital optical switch (DOS) in polymer using truncated-structuralX-branches (TSXB). Microwave and Optical Technology Letters, 2001, 30, 208-211.	1.4	0
117	<title>Encryption techniques to the design of e-beam-generated digital pixel hologram for anti-counterfeiting</title>. , 2002, , .		0
118	Three-Dimensional Switch Matrix based on Polymer Optical Waveguides. , 2007, , .		0
119	The transmission modes and losses of the poled nano-crystal and polymer composite PbTiO3/PEK-c thin-film waveguides. Journal Wuhan University of Technology, Materials Science Edition, 2007, 22, 66-69.	1.0	0
120	A Polarization Insensitive Three-Dimensional Waveguide Interleaver. , 2009, , .		0
121	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
122	A novel biosensor based on a coupled surface plasmon nanostructure. , 2012, , .		0
123	Fabrication of a metal wire-grid THz polarizer with a low-cost manufacturing approach. , 2012, , .		0
124	Apodized fiber Bragg gratings for terahertz applications. , 2013, , .		0
125	Corrections to â€œLow Loss, High Extinction Ration and Ultra-Compact Plasmonic Polarization Beam Splitterâ€•[Apr 1 2014 660-663]. IEEE Photonics Technology Letters, 2014, 26, 2413-2413.	2.5	0
126	Characteristics of stress-birefringence in polymer optical strip waveguides with air cladding. , 2014, , .		0

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127	Investigation on stress/strain sensing characteristics for magnetorheological smart composite material by a SMS fiber structure. , 2015, , .		0
128	Broadband higher-order mode pass filter based on mode conversion. , 2017, , .		0
129	Low-Cost Wet-Etching Method to Fabricate a Robust THz Tri-Layer Polarizer With a High Extinction Ratio. , 2021, , .		0