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Integrated Optics  
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### 建立我自己的個人學術檔案

|        | 全部  | 自 2021 年 |
|--------|-----|----------|
| 引文     | 568 | 214      |
| H 指數   | 15  | 8        |
| i10 指數 | 19  | 7        |

| 標題                                                                                                                                                                                                                   | 引用次數 | 年份   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
| <a href="#">All-optical photonic crystal AND gate with multiple operating wavelengths</a><br>YP Yang, KC Lin, IC Yang, KY Lee, YJ Lin, WY Lee, YT Tsai<br>Optics Communications 297, 165-168, 2013                   | 49   | 2013 |
| <a href="#">All-optical photonic-crystal encoder capable of operating at multiple wavelengths</a><br>YP Yang, KC Lin, IC Yang, KY Lee, WY Lee, YT Tsai<br>Optik 142, 354-359, 2017                                   | 41   | 2017 |
| <a href="#">Analysis of a liquid crystal Fabry-Perot etalon filter: A novel model</a><br>PL Chen, KC Lin, WC Chuang, YC Tzeng, KY Lee, WY Lee<br>IEEE photonics technology letters 9 (4), 467-469, 1997              | 40   | 1997 |
| <a href="#">Optical filters based on polymer asymmetric bragg couplers and its method of fabrication</a><br>KY Lee, WC Chuang, CC Lee, WY Lee<br>US Patent 8,396,341, 2013                                           | 39   | 2013 |
| <a href="#">The designs of 4× 2 encoder based on photonic crystals</a><br>KY Lee, YC Yang, YJ Lin, WY Lee, CC Lee, SH Wong<br>2009 Asia Communications and Photonics conference and Exhibition (ACP) 2009, 1-7, 2009 | 38   | 2009 |
| <a href="#">Method for fabricating polymeric wavelength filter</a><br>KY Lee, WC Chuang, YJ Lin, CC Lee, WY Lee<br>US Patent App. 12/246,508, 2010                                                                   | 36   | 2010 |
| <a href="#">The designs of XOR logic gates based on photonic crystals</a><br>KY Lee, JM Lin, YC Yang, YB Yang, JS Wu, YJ Lin, WY Lee<br>Optoelectronic Materials and Devices III 7135, 932-939, 2008                 | 34   | 2008 |
| <a href="#">Guided-wave characteristics of optical graded-index planar waveguides with metal cladding: a simple analysis method</a><br>WY Lee, SY Wang<br>Journal of lightwave technology 13 (3), 416-421, 1995      | 33   | 1995 |
| <a href="#">Proposal and analysis of an ultrashort directional-coupler polarization splitter with an NLC coupling layer</a><br>KC Lin, WC Chuang, WY Lee<br>Journal of lightwave technology 14 (11), 2547-2553, 1996 | 26   | 1996 |

|                                                                                                                                                            |    |      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|
| <b>Multi-protection touch lock</b>                                                                                                                         | 22 | 2013 |
| TY Chien, HY Hsu, KY Chen, FL Hu, WY Lee, KY Lee, YJ Lin, CC CHEN, ...<br>US Patent App. 13/567,486, 2013                                                  |    |      |
| <b>SSFLC optical directional coupler switch with a short device length: A proposal</b>                                                                     | 22 | 1995 |
| WY Lee, JS Lin, KY Lee, WC Chuang<br>Journal of lightwave technology 13 (11), 2236-2243, 1995                                                              |    |      |
| <b>Mobile device with side-mounted camera module</b>                                                                                                       | 19 | 2013 |
| TY Chien, HY Hsu, KY Chen, FL Hu, WY Lee, KY Lee, YJ Lin, CC CHEN, ...<br>US Patent App. 13/588,947, 2013                                                  |    |      |
| <b>50 fs soliton compression of optical clock pulse recovered from NRZ data injected SOAFL</b>                                                             | 19 | 2010 |
| GR Lin, YC Lin, KC Lin, WY Lee, CL Wu<br>Optics Express 18 (9), 9525-9530, 2010                                                                            |    |      |
| <b>Gamma radiation effect on the fiber Fabry-Perot interference sensor</b>                                                                                 | 19 | 2003 |
| CC Lai, WY Lee, WS Wang<br>IEEE Photonics technology letters 15 (8), 1132-1134, 2003                                                                       |    |      |
| <b>Illuminable Building block</b>                                                                                                                          | 16 | 2014 |
| TY Chien, CH Kao, SH Tseng, HY Hsu, KY Chen, FL Hu, WY Lee, KY Lee, ...<br>US Patent App. 13/902,898, 2014                                                 |    |      |
| <b>Effects of gamma radiation on optical fibre sensors</b>                                                                                                 | 15 | 2004 |
| KC Lin, CJ Lin, WY Lee<br>IEE Proceedings-Optoelectronics 151 (1), 12-15, 2004                                                                             |    |      |
| <b>A comparison of the performance of LiNbO3 traveling-wave phase modulators with various dielectric buffer layers</b>                                     | 13 | 1993 |
| WC Chuang, WC Chang, WY Lee, JH Leu, WS Wang<br>Journal of optical communications 14 (4), 142-148, 1993                                                    |    |      |
| <b>A novel vertical/<math>\Delta</math>/directional coupler switch using liquid crystals</b>                                                               | 12 | 1995 |
| WY Lee, JS Lin, SY Wang<br>Journal of lightwave technology 13 (1), 49-54, 1995                                                                             |    |      |
| <b>Binary operating in all-optical logic gates based on photonic crystals</b>                                                                              | 10 | 2012 |
| YP Yang, IC Yang, CH Chang, YT Tsai, KY Lee, YR Tsai, YS Tu, SF Liao, ...<br>2012 International Symposium on Computer, Consumer and Control, 302-304, 2012 |    |      |
| <b>Optical logic operation for AND Gate based on planar photonic crystal circuit</b>                                                                       | 9  | 2011 |
| KY Lee, YP Yang, IC Yang, YL Tsai, HF Liao, YJ Lin, WY Lee, YT Tsai<br>2011 Asia Communications and Photonics Conference and Exhibition (ACP), 1-6, 2011   |    |      |
| <b>Light guide unit and optical devices using the same</b>                                                                                                 | 6  | 2012 |
| JW Whang, TY Chien, HY Hsu, KP Chen, FL Hu, KY Chen, WY Lee, ...<br>US Patent App. 13/453,297, 2012                                                        |    |      |

|                                                                                                                                                                                                                    |   |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|
| <p>Polymer wavelength filters with high-resolution periodical structures and its fabrication using replication process</p> <p>KY Lee, WC Chuang, KC Lin, CC Lee, WY Lee</p> <p>US Patent 7,853,102, 2010</p>       | 6 | 2010 |
| <p>An efficient two-dimensional discrete fourier transform analysis of periodic pixels of TFT/LCDs</p> <p>JS Lin, WY Lee</p> <p>Microwave and optical Technology Letters 7 (9), 424-427, 1994</p>                  | 6 | 1994 |
| <p>Analysis of Asymmetric Coplanar Strip Electrodes with a Buffer Layer in Integrated Electrooptics Devices</p> <p>JS Lin, TN Chang, WY Lee</p> <p>Journal of optical communications 16 (2), 48-53, 1995</p>       | 5 | 1995 |
| <p>A vector Galerkin's method based on E fields</p> <p>SY Wang, WY Lee, SJ Hwang</p> <p>IEEE photonics technology letters 5 (12), 1439-1441, 1993</p>                                                              | 5 | 1993 |
| <p>Capacitance analysis of periodic pixel of LCD using discrete Fourier transform</p> <p>JS Lin, SY Wang, WY Lee</p> <p>Electronics Letters 30 (4), 294-295, 1994</p>                                              | 4 | 1994 |
| <p>Improving GaN-based HEMTs performance by gate recess technique</p> <p>HC Lee, CC Lee, HJ Lee, WY Lee, WC Chuang</p> <p>2020 IEEE Eurasia Conference on IOT, Communication and Engineering (ECICE ...), 2020</p> | 3 | 2020 |
| <p>Polymer waveguide switch using liquid-crystal overlayer</p> <p>WC Chuang, JS Lin, KY Lee, WY Lee</p> <p>Polymer Photonic Devices 3281, 310-314, 1998</p>                                                        | 3 | 1998 |
| <p>Inverted-rib polymer waveguides fabricated by wet etching: a simple technique</p> <p>KY Lee, KC Lin, WY Lee</p> <p>International Journal of Optoelectronics 11 (2), 105-107, 1997</p>                           | 3 | 1997 |
| <p>A dual-channel wavelength multiplexer/demultiplexer based on the restricted-resonance self-imaging effect</p> <p>KC Lin, WY Lee</p> <p>Fiber &amp; Integrated Optics 16 (1), 73-81, 1997</p>                    | 3 | 1997 |
| <p>Optical toy</p> <p>TY Chien, CH Kao, SH Tseng, HY Hsu, KY Chen, FL Hu, WY Lee, KY Lee, ...</p> <p>US Patent 8,939,811, 2015</p>                                                                                 | 2 | 2015 |
| <p>Optical device</p> <p>TY Chien, HY Hsu, KP Chen, FL Hu, KY Chen, WY Lee, KY Lee, YJ Lin</p> <p>US Patent App. 13/484,510, 2012</p>                                                                              | 2 | 2012 |
| <p>Design of vertical directional coupler switch using ferroelectric liquid crystal (FLC)</p>                                                                                                                      | 2 | 1995 |

JS Lin, WY Lee

Journal of optical communications 16 (6), 233-239, 1995

**EoP254. The analysis of electric field for a periodic electrode with a dielectric buffer-layer** 2 1992

GS Lin, JJ Liang, WY Lee, PO Chen, CC Chen

Ferroelectrics 134 (1), 35-40, 1992

**Study on positive threshold voltage shift and DC characteristics of HEMTs using gate recess technique** 1 2021

HC Lee, CC Lee, HJ Lee, WY Lee, WC Chuang

Modern Physics Letters B 35 (29), 2141013, 2021

**Flexible characteristics of novel OLED Materials** 1 2012

KY Lee, CC Lee, KC Lin, JW Whang, LL Chu, HC Lee, YJ Lin, JH Lee, ...

Applied Mechanics and Materials 182, 72-75, 2012

**Optical polarization mode converter based on twist nematic liquid crystal (TNLC)** 1 1996

WY Lee, KY Lee, WC Chuang, YC Tzeng, JJ Liang

Microelectronic Structures and MEMS for Optical Processing II 2881, 188, 1996

**Electro-optical switching in a fiber coated by liquid crystals** 1 1994

JS Lin, SY Wang, WY Lee, GH Hsiue, JJ Liang

Ferroelectrics 156 (1), 31-36, 1994

**Advances in Highly Sensitive D-shaped Optical Filter Using Soft Film Bragg Grating Techniques** 2024

HJ Lee, YW Luo, YC Ye, L Chu, WC Chuang, WY Lee

2024 Conference on Lasers and Electro-Optics (CLEO), 1-2, 2024

**Design of Bended Multimode Interference Demultiplexer with Multi-Sectional Coherent Coupled Bended Waveguides** 2014

WS Weng, YT Huang, KY Lee, YC Jeng, WY Lee, WC Chuang

Proceedings of the 2nd International Conference on Intelligent Technologies ..., 2014

**P-115: Electrical, Optical, and ITO Characteristics of a Flexible OLED Display** 2011

CC Lee, KC Lin, LL Chu, W Lee, KY Lee, JH Lee, CY Chang, ST Yeh

SID Symposium Digest of Technical Papers 42 (1), 1539-1541, 2011

**The study on the efficiency increase to the light-concentrating panels** 2011

KY Lee, KC Jhan, YJ Lin, HH Hsieh, WY Lee, KY Chen, TY Chien, ...

2011 International Conference on Electric Information and Control ..., 2011

**AND logic gate for optical processing** 2011

KY Lee, CC Lee, YJ Lin, KC Lin, WY Lee, YP Yang, YC Yang, CH Chang, ...

2011 International Conference on Electric Information and Control ..., 2011

**Wavelength-insensitive liquid crystal optical switch for multi-or single-mode fiber optics communication** 1998

KY Lee, WC Chuang, WY Lee

Journal of optical communications 19 (1), 9-14, 1998

- Wavelength-insensitive optical switch: Another application of the twist  
nematic liquid crystal display panel 1996  
KY Lee, WC Chuang, WY Lee, KC Lin  
Microwave and Optical Technology Letters 13 (6), 351-354, 1996
- Analytical study of nonlinear directional coupler 1993  
SJ Hwang, WY Lee, SY Wang, GH Hsiue  
Proceedings of LEOS'93, 334-336, 1993
- The characteristics of a nonlinear directional coupler with nonparallel  
waveguides 1993  
SJ Hwang, WY Lee, HM Wang  
Optical and quantum electronics 25 (3), 207-213, 1993
- Surface Cracks of Flexible Substrate for Flexible Organic Light-Emitting  
Devices  
CC Lee, KC Lin, LL Chu, W Lee, KY Lee, JH Lee, CY Chang, ST Yeh
- A Novel  $1 \times 3$  Power Splitter Using Coherently Coupled Effect With  
Asymmetric Branching Ratio  
KY Lee, KY Chen, YJ Lin, CC Lee, WY Lee
- Electrical, Optical, and ITO Characteristics of Flexible OLED upon  
Cyclic Bending Test  
CC Lee, KC Lin, LL Chu, W Lee, KY Lee, JH Lee, CY Chang, ST Yeh
- Electronically tunable Fabry-Perot etalons with double liquid-crystal  
layers  
WC Chuang, KC Lin, JS Lin, KY Lee, WY Lee