

蔡政穆

著作目錄

期刊論文

1. Jyun-Ping Chang, Cheng-Mu Tsai, Jun-Hong Weng and Pin Han (2024, May). Refractive Index and Dispersion Measurement Principle with Polarization Change in Total Internal Reflection. *photonics*, vol. 11, Article #: 505.
2. Cheng-Mu Tsai, Chun-Nien Liu, Yao-Hsuan Yu, Tzu-Chen Yu, Pin Han and Yi-Chin Fang (2024, Mar). Extended Field-of-View Scanning in LiDAR Systems using Computer-Generated Holography-based Spatial Light Modulator. *Optics and Laser in Engineering*, vol. 174, Article #: 107982. 本人為第一作者.
3. Cheng-Mu Tsai, Sung-Jr Wu, Yi-Chin Fang, Pin Han (2024, Mar). Wide Field of View Under-Panel Optical Lens Design for Fingerprint Recognition of Smartphone. *Micromachines*, vol. 15, Article #: 386. 本人為第一作者.
4. Jyun-Ping Chang, Cheng-Mu Tsai, Panfeng Ding, Jixiong Pu, Pin Han (2024, Feb). Scalable optical frequency ruler with Faraday Effect. *Photonics*, vol. 11, no. 2, Article #: 127.
5. Cheng-Mu Tsai, Tzu-Chen Yu, Pin Han and Yi-Chin Fang (2023, Dec). Realization of Collimated Specific Profiles in Rotation-Symmetrical Beam Shaping System with Divergent Light Source. *Discover Nano*, vol. 18, no. 1, Article #:160. 本人為第一作者.
6. Cheng-Mu Tsai, Jun-Hong Weng, Kuo-Wei Lin and Pin Han (2023, Feb). Movable Optical Frequency Ruler with Optical Activity. *Photonics*, vol. 10, no. 206, Article #: 10020206. 本人為第一作者.
7. Cheng-Mu Tsai, Pin Han, Hsin-Hung Lee and Chih-Ta Yen (2022, Feb). Lens Design Method Prediction of Local Optimization Algorithm by Using Deep Learning. *Crystals*, vol. 12, no. 9. nstc 110-2221-E-005-054-MY2. 本人為第一作者.
8. Cheng-Mu Tsai, Ken-Yu Cheng, Chia-Hung Yeh, and Pin Han (2021, Oct). Three dimensional coupling structure for high power Laser diode module. *OSA Continuum*, 4(10), 2655-2662. 本人為第一作者.
9. Chun-Feng Chou, Cheng-Mu Tsai, Chao-Hsien Chen, Yung-Hao Yong, Yi-Chin Fang*, Chan-Chuan Wen, Hsiao-Yi Lee, Shun-Hsyung Chang, Hsing-Yuan Liao (2021, Oct). Optical Design and Genetic Algorism Optimization for High-Resolution Photogrammetry Optics. *Applied Sciences*.

10. Cheng-Mu Tsai, Jun-You Li, Pin Han and Chih-Ta Yen (2021, Aug). Design and Evaluation of Optical See-Through Head-Mounted Display with Wide FOV Based on Dihedral Corner Reflector Array. *IEEE Access*, 9, 118977-118984. 本人為第一作者.
11. Cheng-Mu Tsai, Yung-Chieh Tseng, and Tzu-Chun Huang (2019, Aug). Stereoscopic Imaging Capsule Endoscopy in a Single Lens Design based on Prisms and Polarizers. *Microsystem Technologies*, DOI : 10.1007/s00542-019-04588-9, 2019. 本人為第一作者、通訊作者.
12. Cheng-Mu Tsai and Chen-Kang Wu (2019, Jun). Freeform Lens Design of Beam Shaping With User-Defined Rotation-Symmetric Profile by Using Numerical Method. *IEEE Photonics Journal*, 11(3), Article #: 1502812. 本人為第一作者、通訊作者.
13. Cheng-Mu Tsai, Tzu-Chyang King, Yi-Chin Fang, Nai-Wie Hsueh and Che-Wei Lin (2019, Feb). Optical Design for Novel Glasses-Type 3D Wearable Ophthalmoscope . *Applied Sciences*, 9(4), Article #: 717. 本人為第一作者.
14. Yi-Chin Fang, Cheng Mu Tsai and Da-Long Cheng (2019, Feb). Application of Dimming Compensation Technology Via Liquid Crystal Lens for Non-Imaging Projection Laser Systems. *Crystals*, 9(3), Article #: 122.
15. *Cheng-Mu Tsai, Hidenori Taga and Po-Wei Chiou (2018, Sep). Demonstration of $N/2 \times 2$ Optical Cross Connectors in One Pair of $N \times N$ Cyclic-AWG and Multiple Tunable Fiber Gratings. *IEEE Photonics Journal*, 10(5), Article #: 7203510. 本人為第一作者、通訊作者.
16. Pin Han, Yung-Chieh Tseng and *Cheng-Mu Tsai (2018, Sep). Wide Field of View Lens Design with Uniform Image Illumination in Capsule Endoscope System. *Microsystem Technologies*, DOI 10.1007/s00542-018-4104-y. 本人為通訊作者.
17. *Cheng-Mu Tsai and Bo-Xiang Wang (2018, Aug). A Freeform Mirror Design of Uniform Illumination in Streetlight from a Split Light Source. *IEEE Photonics Journal*, 10(4), Article #: 2201212. MOST 106-2221-E-005-055. 本人為第一作者、通訊作者.
18. Pin Han, Hsun-Ching Hsu, *Cheng-Mu Tsai (2018, Feb). Beam Shaping Freeform Lens Design with Modified Optical Flux Partition. *IEEE Photonics Journal*, 10(1), Article #: 8200113. 本人為通訊作者.