

陳俐吟

著作目錄

期刊論文

1. H.-C. Lin, L.-Y. Chen*, C.-C. Lu, J.-Y. Lai, Y.-C. Chen*, Y.-J. Hung (2021, Aug). Ambipolar carrier transport properties of triphenylamine/dibenzofulvene derivative and its application for efficient n-i-p perovskite solar cells. *Organic Electronics*, 95, 106200. MOST 109-2221-E-009-166. 本人為通訊作者.
2. Y.-C. Chen*, J.-H. Yen, Y.-J. Wang, C.-A. Hsieh, L.-Y. Chen* (2021, Aug). Light extraction enhancement in organic light-emitting diodes through polyimide/porous silica hybrid films. *Organic Electronics*, 95, 106213. MOST 109-2221-E-009-166. 本人為通訊作者.
3. J. Lade, N.-Y. Lee, B. Patil, Y. Y. Deshpande, B.Pownthurai, C.-A. Hsieh, S. S.Pingale, L.-Y. Chen*, A. Chaskar* (2021, May). Novel benzothiadiazine 1,1-dioxide based bipolar host materials for efficient red phosphorescent organic light emitting diodes. *Organic Electronics*, 92, 106104. MOST 109-2221-E-009-166. 本人為通訊作者.
4. H.-C. Wang, P. Cheng, S. Tan, C.-H. Chen, B. Chang, C.-S. Tsao, L.-Y. Chen, C.-A. Hsieh, Y.-C. Lin, H.-W. Cheng, Y. Yang, K.-H. Wei* (2021, Apr). Sequential deposition of donor and acceptor provides high performance semitransparent organic photovoltaics having a pseudo p-i-n active layer structure. *Advanced Energy Materials*, 11, 2003576. MOST 109-2221-E-009-166.
5. H.-C. Lin, L.-Y. Chen*, T.-H. Lin (2021, Feb). Improving hysteresis of room-temperature air-quenching MAPbI_{3-x}Cl_x solar cells by using mixed-lead halide precursor. *Materials Chemistry and Physics*, 259, 124032. MOST 108-2221-E-009-139. 本人為通訊作者.
6. L.-Y. Chen*, K.-M. Hsieh, Y.-J. Wu, C.-A. Hsieh, J.-K. Chang, D.-H. Liu, H.-W. Hung, S.-Y. Ho, C.-H. Chang (2021, Feb). Novel scattering and color converting substrates for simple-structured white organic light-emitting diodes. *Organic Electronics*, 89, 106045. MOST 109-2221-E-009-166. 本人為第一作者、通訊作者.
7. C.-Y. Su, Y.-C. Wu, C.-H. Cheng, W.-C. Wang, H.-Y. Wang, L.-Y. Chen, H.-C. Kuo, G.-R. Lin* (2020, Sep). Color-Converting Violet Laser Diode with Ultrafast BEHP-PPV+MEH-PPV Polymer Blend for High-speed White Lighting

- Data Link. *ACS Applied Electronic Materials*, 2, 3017-3027. MOST 108-2221-E-009-139.
8. H.-H. Ho, A.-T. Nguyen, Y.-C. Chen, L.-Y. Chen, H.-P. Dang, M.-J. Tsai, H. Cheng, S.-F. Horng*, C.-S. Huang, H.-W. Zan*, H.-F. Meng* (2020, Sep). A Cylindrical Ion Sensor with Diameter 1.5 mm for Potentially Invasive Medical Application. *ACS Omega*, 5, 23021-23027. MOST 108-2221-E-009-139.
 9. R.-H. Yi, C.-M. Shao, C.-H. Lin, Y.-C. Fang, H.-L. Shen, C.-W. Lu*, K.-Y. Wang, C.-H. Chang*, L.-Y. Chen*, Y.-H. Chang (2020, Aug). Dicyano-Imidazole-Based Host Materials Possessing Balanced Bipolar Nature to Realize Efficient OLEDs with Extremely High Luminance. *Journal of Physical Chemistry Part C*, 124, 20410-20423. MOST 108-2221-E-009-139. 本人為通訊作者。
 10. Jui-Hua Yen, Yi-Jyun Wang, Chung-An Hsieh, Yung-Chung Chen*, Li-Yin Chen* (2020, Feb). Enhanced light extraction from organic light-emitting devices through non-covalent or covalent polyimide–silica light scattering hybrid films. *Journal of Materials Chemistry C*, 8, 4102-4111. MOST 107-2221-E-110-046. 本人為通訊作者。
 11. L.-Y. Chen*, Y.-J. Shiu, Y.-J. Wu, W.-Y. Huang (2020, Jan). Simple structured color tunable white organic light-emitting diodes utilizing an ambipolar anthracene derivative with low-lying LUMO. *Organic Electronics*, 76, 105454. MOST 107-2221-E-110-046. 本人為第一作者、通訊作者。
 12. Y.-F. Huang, Y.-C. Chi, C.-H. Cheng, C.-T. Tsai, W.-C. Wang, D.-W. Huang, L.-Y. Chen, G.-R. Lin* (2019, Jul). LuAG:Ce/CASN:Eu phosphor enhanced high-CRI R/G/B LD lighting fidelity. *Journal of Material Chemistry C*, 7, 9556-9563. MOST 107-2221-E-110-046.
 13. K. S. Vadagaonkar, C.-J. Yang, W.-H. Zeng, J.-H. Chen, B. N. Patil, P. Chetti, L.-Y. Chen*, A. C. Chaskar* (2019, Jan). Triazolopyridine hybrids as bipolar host materials for green phosphorescent organic light-emitting diodes. *Dyes and Pigments*, 160(2019), 301-314. MOST 107-2221-E-110-046. 本人為通訊作者。
 14. T.-C. Wu, Y.-C. Chi, H.-Y. Wang, C.-T. Tsai, C.-H. Cheng, J.-K. Chang, L.-Y. Chen, W.-H. Cheng, G.-R. Lin* (2018, May). White-lighting communication with Lu₃Al₅O₁₂:Ce³⁺/CaAlSi₃N₃:Eu²⁺ glass covered 450-nm InGa_N laser diode. *Journal of Lightwave Technology*, 36(9), 1634-1643. MOST 107-2221-E-110-046.
 15. Y.-C. Chi, Y.-F. Huang, T.-C. Wu, C.-T. Tsai, L.-Y. Chen, H.-C. Kuo, and G.-R. Lin (2017, Sep). Violet Laser Diode Enables Lighting Communication. *Scientific Reports*, 7, 10469. MOST 103-2221-E-110-040-MY3.
 16. A.-K. Chu, W.-C. Tien, S.-W. Lai, H.-L. Tsai, R.-Y. Bai, X.-Z. Lin, L.-Y. Chen*

- (2017, Mar). High-resistivity sol-gel ITO thin film as an interfacial buffer layer for bulk heterojunction organic solar cells. *Organic Electronics*, 46, 99-104. MOST 103-2221-E-110-040-MY3. 本人為通訊作者.
17. I. C.-Y. Hou, V. Shetti, S.-L. Huang, K.-L. Liu, C.-Y. Chao, S.-C. Lin, Y.-J. Lin, L.-Y. Chen, and T.-Y. Luh* (2017, Mar). Poly[2(6)-aminoazulene]: Synthesis, Photophysical Properties, and Proton Conductivity. *Organic Chemistry Frontiers*, 4, 773-778. MOST 103-2221-E-110-040-MY3.
 18. Y.-J. Cheng, S.-Y. Yu, S.-C. Lin, J. T. Lin*, L.-Y. Chen*, D.-S. Hsiu*, Y. S. Wen, M. M. Lee, S.-S. Sun (2016, Sep). A phenothiazine/dimesitylborane hybrid material as a bipolar transport host of red phosphor. *Journal of Materials Chemistry C*, 40, 9499-9508. MOST 103-2221-E-110-040-MY3. 本人為通訊作者.
 19. D. Gudeika, D. Volyniuk, J. V. Grazulevicius*, E. Skuodis, S.-Y. Yu, W.-T. Liou, L.-Y. Chen*, Y.-J. Shiu (2016, Mar). Derivative of oxygafluorene and di-tert-butyl carbazole as the host with very high hole mobility for high-efficiency blue phosphorescent organic light-emitting diodes. *Dyes and Pigments*, 130, 298-305. MOST 102-2923-E-110-001-MY3. 本人為通訊作者.
 20. Y.-W. Tsai, J.-S. Ni, F.-L. Wu, M.-C. P. Yeh*, Y.-J. Cheng, L.-Z. Tsai, S.-Y. Yu, S.-Y. Ting, L.-Y. Chen*, Y. S. Wen, M. M. Lee, J. T. Lin* (2016, Jan). Bipolar transport materials for electroluminescence applications. *Organic Electronics*, 30, 265-274. MOST 103-2221-E-110-040-MY3. 本人為通訊作者.
 21. W. C. Tien, L.Y. Chen, Y. W. Zeng, K. W. Chang, A. K. Chu* (2015, Nov). Narrow-band emitting microcavity OLED with ITO DBR electrode for sensing applications. *Electronics Letters*, 51, 2034-2035.
 22. L.-Y. Chen*, J.-K. Chang, W.-C. Cheng, J.-C. Huang, Y.-C. Huang, W.-H. Cheng, (2015, Jul). Chromaticity tailorable glass-based phosphor-converted white light-emitting diodes with high color rendering index. *Optics Express*, 23, A1024-A1029. 本人為第一作者、通訊作者.
 23. W. C. Tien, L.Y. Chen, M. J. Chung, A. K. Chu* (2015, Jul). Aging of ITO anodes treated by supercritical CO₂/H₂O₂ fluids for OLEDs. *Journal of Materials Science: Materials in Electronics*.
 24. R. Muangpaisal, M.-C. Ho, T.-H. Huang, C.-H. Chen, J.-Y. Shen, J.-S. Ni, J. T. Lin*, T.-H. Ke, L.-Y. Chen, C.-C. Wu*, C. Tsai* (2014, Sep). Tetrasubstituted-pyrene derivatives for electroluminescent application. *Organic Electronics*, Vol. 15, 2148-2157.
 25. Y.-S. Chen, C.-H. Liao, Y.-L. Chueh, C.-C. Lai, L.-Y. Chen, A.-K. Chu, C.-T. Kuo, H.-C. Wang* (2014, Jul). High performance Cu₂O/ZnO core-shell nanorod arrays synthesized using a nanoimprint GaN template by the hydrothermal

- growth technique. *Optical Materials Express*, Vol. 4, pp1473. MOST 102-2221-E-110-064.
26. L.-Y. Chen, Y.-S. Chen, S.-H. Chen, S.-J. Dai, C.-T. Kuo, H.-C. Wang* (2014, Jun). Spectral design and evaluation of OLEDs as light sources. *Organic Electronics*, Vol. 15, 2194-2209. MOST 102-2221-E-110-064. 本人為第一作者.
 27. L.-Y. Chen, W.-C. Cheng, C.-C. Tsai, J.-K. Chang, Y.-C. Huang, J.-C. Huang, W.-H. Cheng* (2014, May). Novel broadband glass phosphors for high CRI WLEDs. *Optics Express*, Vol. 22, A671-A678. MOST 100-3113-E-110-003-CC2. 本人為第一作者.
 28. R. Muangpaisal, W.-I. Hung, J. T. Lin*, S.-Y. Ting, L.-Y. Chen* (2014, Mar). Binaphthalene bridged bipolar transporting materials for blue electroluminescence: Toward high EL efficiency via molecular tuning. *Tetrahedron*, Vol. 70, 2992-2998. 本人為通訊作者.
 29. L.-Y. Chen, W.-C. Cheng, C.-C. Tsai, Y.-C. Huang, Y.-S. Lin, W.-H. Cheng* (2014, Jan). High-Performance Glass Phosphor for White-Light-Emitting Diodes via Reduction of Si-Ce³⁺:YAG Inter-diffusion. *Optical Materials Express*, Vol. 4, 121-128. MOST 100-3113-E-110-003-CC2. 本人為第一作者.
 30. Y.-T. Tsai, C.-Y. Chen, L.-Y. Chen, S.-H. Liu, C.-C. Wu*, Y. Chi, S. H. Chen, H.-F. Hsu, J.-J. Lee (2014, Jan). Analyzing nanostructures in mesogenic host-guest systems for polarized phosphorescence. *Organic Electronics*, Vol. 15, 311-321.
 31. L.-Y. Chen*, F.-H. Chien, Y.-W. Liu, W. Zheng, C.-Y. Chiang, C.-Y. Hwang, C.-W. Ong, Y.-K. Lan, H. C. Yang (2013, Aug). Ambipolar carrier transport properties in a built-in donor-acceptor discogen. *Organic Electronics*, Vol. 14, 2065-2070. NSC 101-2221-E-110-052. 本人為第一作者、通訊作者.
 32. W.-C. Lin, W.-C. Huang, M.-H. Huang, C.-C. Fan, H.-W. Lin*, L.-Y. Chen, Y.-W. Liu, J.-S. Lin, T.-C. Chao, M.-R. Tseng (2013, Aug). A bipolar host containing carbazole/dibenzothiophene for efficient solution-processed blue and white phosphorescent OLEDs. *Journal of Materials Chemistry C*, Vol. 1, 6835-6841. MOST 101-2112-M-007-017-MY3.
 33. C.-C. Tsai, W.-C. Cheng, J.-K. Chang, L.-Y. Chen, J.-H. Chen, and W.-H. Cheng* (2013, Jun). Ultra-High Thermal-Stable Glass Phosphor Layer for Phosphor-Converted White Light-Emitting Diodes. *IEEE/OSA Journal of Display Technology*, Vol. 9, 427-432. (SCI). NSC 100-3113-E-110-003-CC2.
 34. L.-Y. Chen*, J.-K. Chang, Y.-R. Wu, W.-C. Cheng, J.-H. Chen, C.-C. Tsai, W.-H. Cheng (2013, Jun). Optical Model for Novel Glass-based Phosphor-Converted White Light Emitting Diodes. *IEEE/OSA Journal of Display Technology*, Vol. 9, 441-446. (SCI). NSC 100-3113-E-110-003-CC2. 本人為第一作者、通訊作者.

研討會論文

1. C.-A. Hsieh, L.-Y. Chen*, J.-H. Yen, Y.-C. Chen, Y.-J. Wang (2020, Aug). Light extraction enhancement in OLEDs by covalent polyimide-silica hybrid layers. SPIE Optics+Photonics 2020. MOST 108-2221-E-009-139. 本人為通訊作者.
2. C.-A. Hsieh, Y.-J. Wang, R.-H. Yan, Y.-C. Chen, L.-Y. Chen (2019, Dec). Enhanced Out-coupling in Organic Light-Emitting Diodes via Polyimide/SiO₂ composite films. Optics & Photonics Taiwan International Conference 2019. MOST 108-2221-E-009-139. 本人為通訊作者.
3. H.-C. Lin, L.-Y. Chen (2019, Dec). The Perovskite Thin Film Enhanced by Air Quenching Method and Application in Inverted-type Perovskite Solar Cell. Optics & Photonics Taiwan International Conference 2019. MOST 108-2221-E-009-139. 本人為通訊作者.
4. (Invited) L.-Y. Chen (2019, Aug). Phosphor embedded glass substrates for OLED lightings. SPIE Optics+Photonics 2019. MOST 107-2221-E-110-046. 本人為第一作者、通訊作者.
5. C.-Y. Su, W.-C. Wang, H.-Y. Wang, L.-Y. Chen, G.-R. Lin (2019, Mar). Violet laser diode based 25-Gbps point-to-point and 12-Gbps MEH/BBEHP converted white lighting QAM-OFDM link. Optical Fiber Communication Conference 2019, San Diego, USA.
6. D.-H. Liu, L.-Y. Chen* (2018, Dec). Fluorescent substrates for white organic light-emitting diodes. 2018 Optics & Photonics Taiwan, the International Conference, Taiwan. 本人為通訊作者.
7. Y. -J. Wang, R.-H. Yan, Y.-C. Chen, L.-Y. Chen* (2018, Dec). Enhanced light-outcoupling in Organic Light-emitting Diodes. 2018 Optics & Photonics Taiwan, the International Conference, Taipei. 本人為通訊作者.
8. C.-C. Lu, L.-Y. Chen*, Y.-C. Chen (2018, Oct). Investigation of transport properties in a fluorene/diphenylamine derivative using time-of-flight photocurrent Measurements. 2018 Taiwan Vacuum Society Annual Symposium, Taiwan. 本人為通訊作者.
9. J.-Y. Lai, L.-Y. Chen*, M.-J. Wu, P.-H. Liu (2018, Oct). Photophysical property of benzoxazole-based derivatives. 2018 Taiwan Vacuum Society Annual Symposium, Taiwan. 本人為通訊作者.
10. P.-Y. Lin, Li-Yin Chen*, C.-W. Lu (2018, Oct). The Photophysical properties of dimethyl acridin/ spiro[fluorene-9,9'-phenanthren] derivative. 2018 Taiwan Vacuum Society Annual Symposium, Taiwan. 本人為通訊作者.
11. Y.-J. Wu, L.-Y. Chen* (2018, Aug). Defocused optical system for analyzing dust defects in imaging capturing module. 2018 SPIE Optics + Photonics, San Diego,

- USA. 本人為通訊作者.
12. H.-T. Lin, L.-Y. Chen*, C.-T. Yuan (2017, Dec). Eco-friendly carbon quantum dots films for down-conversion in organic photovoltaics. 2017 Optics & Photonics Taiwan, the International Conference, Taiwan. 本人為通訊作者.
 13. K.-M. Hsieh, L.-Y. Chen* (2017, Dec). Optical properties of flexible substrates for white organic light-emitting diodes. 2017 Optics & Photonics Taiwan, the International Conference, Taiwan. 本人為通訊作者.
 14. W.-H. Zeng, L.-Y. Chen*, A. C. Chaskar (2017, Dec). The photophysical properties of triazolopyridine hybrids with bipolar carrier transporting capability for organic light-emitting diodes. 2017 Optics & Photonics Taiwan, the International Conference, Taiwan. 本人為通訊作者.
 15. R.-Y. Bai, X.-Z. Lin, L.-Y. Chen* (2017, Aug). Bulk heterojunction organic photovoltaic devices with sol-gel ITO thin film as an interfacial buffer layer. 2017 International Conference on Science, Engineering, Vocational Education and Novelty, China.. 本人為通訊作者.
 16. J.-H. Chen, L.-Y. Chen* (2016, Dec). Carrier transport properties of carbazole-pyridine derivatives. 2016 Optics & Photonics Taiwan, the International Conference, Taiwan. 本人為通訊作者.
 17. J.-K. Chang, Y.-Y. Kuo, D. Wu, W.-H. Cheng, L.-Y. Chen* (2016, Dec). Luminous enhancement of laser excited glass phosphors by MgF₂ anti-reflection coating. 2016 Optics & Photonics Taiwan, the International Conference, Taiwan. 本人為通訊作者.
 18. (Invited) H.-L. Tsai, L.-Y. Chen* (2016, Aug). Improvement of Bodipy-based bulk heterojunction Solar Cell Using 1,8-diodooctane. Progress In Electromagnetics Research Symposium 2016, Shanghai, China.. 本人為通訊作者.
 19. Y.-J. Wu, L.-Y. Chen*, M.-J. Lu (2016, Aug). Optical inspection algorithm for dust defect of compact camera module. 2016 SPIE Optics + Photonics, San Diego, USA. 本人為通訊作者.
 20. J.-K. Chang, D. Wu, W.-C. Tien, L.-Y. Chen* (2016, Mar). Highly simplified white organic light- emitting diodes utilizing color-conversion substrate. 2016 14th conference on microelectronics technology & application, Taiwan. 本人為通訊作者.
 21. Y.-P. Chang, J.-K. Chang, W.-C. Cheng, C.-N. Liu, L.-Y. Chen, W.-H. Cheng* (2016, Mar). Next-generation high-reliability laser light engine by glass phosphor-converted layer. 2016 International Society for Optics and Photonics, USA.
 22. Y.-H. Su, W.-J. Kuo, H.-C. Chou, S.-Y. Ting, L.-Y. Chen* (2015, Dec).

- Ambipolar carrier-transporting carbazoles derivatives for efficient OLEDs. The 9th International Conference on Advanced Materials and Devices, 韓國. 本人為通訊作者.
23. L.-Y. Chen*, W.-J. Kuo, Y.-Y. Chuang (2015, Oct). Deep-blue emitting and ambipolar carrier transporting boron-containing carbazoles for OLED applications. Asian Conference on Organic Electronics 2015, 中國. 本人為第一作者、通訊作者.
 24. J.-K. Chang, W.-C. Cheng, Y.-P. Chang, Y.-Y. Kuo, C.-C. Tsai, Y.-C. Huang, L.-Y. Chen, W.-H. Cheng* (2015, Aug). Next-Generation Glass-Based Phosphor-Converted Laser Light Engine. 14th International Conference on Solid State Lighting and LED-based Illumination Systems, 美國.
 25. Y.-J. Wu, L.-Y. Chen* (2014, Dec). General method for freeform lens design in white light-emitting diodes. Optics and Photonics Taiwan, International Conference, Taichung, Taiwan. 本人為通訊作者.
 26. J.-K. Chang, L.-Y. Chen*, W.-C. Cheng, J.-C. Huang, Y.-Y. Kuo, W.-H. Cheng (2014, Nov). High thermal-stable glass-based phosphors for high-power white light-emitting diodes . International Electron Devices and Materials Symposium 2014, Hualien, Taiwan. MOST 103-2622-E-110-009-CC2. 本人為通訊作者.
 27. Y.-J. Lin, S.-Y. Ting, L.-Y. Chen* (2014, Nov). Carrier mobility measurement in thin-filmed organic semiconductors with assistance of numerical analysis. International Electron Devices and Materials Symposium 2014, Hualien, Taiwan. MOST 102-2221-E-110-064. 本人為通訊作者.
 28. Y.-J. Wu, L.-Y. Chen* (2014, Aug). (Invited) Balanced charge transport organic semiconductors for highly efficient organic light-emitting diodes. Progress In Electromagnetics Research Symposium 2014, Guangzhou (Canton), CHINA. 本人為通訊作者.
 29. W. C. Tien, L. Y. Chen, Y. W. Zeng, K. W. Chang, A. K. Chu* (2014, Jul). Microcavity organic light emitting diodes with ITO DBR electrodes. The 8th International Conference on Advanced Materials Processing, Gold Coast, Australia.
 30. L.-Y. Chen* (2013, Nov). (Invited) Balanced Ambipolar Charge Transport in a Discogen with a Wide Mesophase Range. The 5th Asian Conference on Organic Electronics, Pohang, Korea. MOST 102-2221-E-110-064. 本人為第一作者、通訊作者.
 31. L.-Y. Chen*, C.-A. Hsieh (2013, Sep). (Invited) Highly durable dye-sensitized solar cells utilizing bio-compatible and photo-crosslinkable acrylic-based hydrogel. Baltic Polymer Symposium 2013, Trakai, Lithuania. NSC 102-2221-E-110-064. 本人為第一作者、通訊作者.

32. W-J Kuo*, P-C Chen, Y-H Su, O-R Wang, L-Y Chen, R-J J, L.-H. Chan (2013, Aug). Deep Blue Light Emitting Fluorophores with Ambipolar Characteristics. 15th International Symposium on Novel Aromatic Compounds (ISNA15), Taipei, Taiwan.
33. Y.-J. Wu, L.-Y. Chen* (2013, Aug). Balanced charge transport organic semiconductors for highly efficient organic light-emitting diode. Progress In Electromagnetics Research Symposium , Guangzhou, China. MOST 102-2221-E-110-064. 本人為通訊作者.
34. L.-Y. Chen*, Y.-R. Wu, J.-K. Chang (2013, May). Glass-based Color Conversion Multilayer for White Light-emitting-diodes and its Angular Color Performance. SID 2012, Vancouver, Canada. 本人為第一作者、通訊作者.

技術報告

1. W.-H. Cheng, L.-Y. Chen, W.-C. Cheng (2014, Jul). Thermally stable white LEDs.