

期刊論文 (selected)

1. A. S. Sadhu, Y.-H. Pai, **L.-Y. Chen***, C.-A. Hsieh, H.-W. Lin, H.-C. Kuo*, (2023, May). High bandwidth semipolar (20–21) micro-LED-based white light-emitting diodes utilizing perovskite quantum dots and organic emitters in color-conversion layers for visible light communication and solid-state lighting application. *Nanoscale* 15, 7715
2. C.-A. Hsieh, G.-H. Tan, Y.-T. Chuang, H.-C. Lin, P.-T. Lai, P.-E. Jan, B.-H. Chen, C.-H. Lu, S.-D. Yang, K.-Y. Hsiao, M.-Y. Lu, **L.-Y. Chen***, H.-W. Lin*, (2023, Apr). Vacuum-deposited inorganic perovskite light-emitting diodes with external quantum efficiency exceeding 10% via composition and crystallinity manipulation of emission layer under high vacuum. *Advanced Science* 10, 2206076
3. G.-H. Tan, Y.-N. Chen, Y.-T. Chunag, H.-C. Lin, C.-A. Hsieh, Y.-S. Chen, T.-Y. Lee, W.-C. Miao, H.-C. Kuo, **L.-Y. Chen**, K.-T. Wong*, H.-W. Lin*, (2022, Dec). Highly luminescent earth-benign organometallic manganese halide crystals with ultrahigh thermal stability of emission from 4 to 623 K. *Small* 2022, 2205981
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8. B.-X. Chen, **L.-Y. Chen***, H.-W. Zan, H.-F. Meng, C.-A. Hsieh, J.-B. Yang, M.-H. Chen, Y.-H. Cheng (2022, Mar). Enhancement in operational current of PTB7 based ammonia gas sensor utilizing F4-TCNQ as P-type dopant. *Sensors and Actuators: B. Chemical*, 361, 131723
9. C.-H. Liu, Y.-N. Nguyen Pham, Y.-M. Sun, H.-F. Meng*, H.-W. Zan*, **L.-Y. Chen***, Z.-H. Huang, Y.-C. Tian, C.-S. Lai (2022, Mar). Using light-emitting complex Ir(mppy)₃ to detect acetone from 0.5 to 100 ppm by vertical-channel gas sensor. *Organic Electronics*, 106, 106507
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15. 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, Jan). 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

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20. **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.
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研討會論文 (selected)

1. **(Invited) L.-Y. Chen***, Toward highly sensitive and low hardware requirement ammonia gas detection based on organic semiconductors, *The 14th Asian Conference on Organic Electronics*, Macau, China.
2. **(Invited) L.-Y. Chen***, Phosphor embedded glass substrates for OLED lightings, *SPIE Optics+Photonics 2019*, USA.
3. **(Best paper award)** R.-Y. Bai, X.-Z. Lin, **L.-Y. Chen***, Bulk heterojunction organic photovoltaic devices with sol-gel ITO thin film as an interfacial buffer layer, *International Conference on Science, Engineering*, 2017, Guilin, China.
4. **(Invited)** H.-L. Tsai, **L.-Y. Chen***, Improvement of Bodipy-based bulk heterojunction Solar Cell Using 1,8-diodooctane, *Progress In Electromagnetics Research Symposium 2016*, Shanghai, China.
5. **(Invited)** Y.-J. Wu, **L.-Y. Chen***, Balanced charge transport organic semiconductors for highly efficient organic light-emitting diodes, *Progress In Electromagnetics Research Symposium 2014*, Guangzhou, China.
6. **(Invited) L.-Y. Chen***, Balanced ambipolar charge transport in a discogen with a wide mesophase range, *The 5th Asian Conference on Organic Electronics*, Pohang, Korea.