## Publications

- **Li, L.**, Cai, M., Wang, T., Tan, Z., Wu, K., &Zeng, G. On-Chip Source-Device-Independent Quantum Random Number Generator. *Photonics Research, 12 (7), 1379-1394,* **2024.** **（Chinese Academy of Sciences Category 1 TOP Journal, IF：7.6）(On the cover)**

- **Li, L.**, Wang, T., Li, X., Huang, P., Guo, Y., Lu, L., Zhou, L., & Zeng, G. Continuous-variable quantum key distribution with on-chip light sources. *Photonics Research*, 11(4), 504-516. **2023.** **（Chinese Academy of Sciences Category 1 TOP Journal, IF：7.6） (On the cover)**

- **Li, L.**, Huang, P., Wang, T., & Zeng, G. Practical security of a chip-based continuous-variable quantum-key-distribution system. *Physical Review A*, 103(3), 032611, **2021.** **（Chinese Academy of Sciences Category 2 TOP Journal, IF：3.14）**

- **Li, L.**, Huang, P., Wang, T., Yin, H., & Zeng, G. Forced carrier perturbation opens a loophole for chip-based continuous variable quantum key distribution system. *Optics Express*, 32, 33423-33441, **2024.**

  **（Chinese Academy of Sciences Category 2 TOP Journal, IF：3.2）**

- **Li, L.**, Wang, T., Huang, P., Xu, Y., Liu, X., Zhao, H., & Zeng, G. Practical Source Security of On-chip Continuous Variable Measurement Device Independent Quantum Key Distribution. In 2024 Photonics & Electromagnetics Research Symposium (PIERS) (pp. 1-6). IEEE. **2024. (Oral presentation)（国际电磁学领域顶会, Top international conference in the field of electromagnetics.）**

- **Li, L.**, Wang, T., Huang, P., & Zeng, G. Quantum Photonics Enhances Continuous Variable Quantum Key Distribution. In 2023 *Photonics & Electromagnetics Research Symposium (PIERS)* (pp. 529-535). IEEE. **2023. (Oral presentation, Prague, Czech Republic) （国际电磁学领域顶会, Top international conference in the field of electromagnetics.）**

- Yu, T., Li, X., **Li, L.**, Huang, J., Li, H., Wang, T., Zhou, L., & Zeng, G. Surpassing the Quantum Limit in Bosonic Loss Estimation without Quantum Probes. *Physical Review Letters*, 133(060801), **2024**. **(Prestigious journal in the field of physics, Chinese Academy of Sciences Category 1 TOP Journal, IF：9.0)**

- Wang, T., Zuo, Z., **Li, L.**, Huang, P., Guo, Y., & Zeng, G. Continuous-Variable Quantum Key Distribution Without Synchronized Clocks. *Physical Review Applied*, 18, 014064, **2022. (JCR Q1 TOP IF: 4.99)**

- Yuehan Xu, Tao Wang, **Li, L.**, Huanxi Zhao, Peng Huang, Guihua Zeng; Simultaneous continuous-variable quantum key distribution and classical optical communication over a shared infrastructure. *Appl. Phys. Lett.* ,123 (15):154001., **2023. (JCR Q1 TOP IF: 3.97)**

- Dong, J., Wang, T., **Li, L.**, Huang, P., & Zeng, G. Efficient frame synchronization using a weak coherent state for continuous-variable quantum key distribution. *Physical Review A*, 105, 052407, **2022. (Chinese Academy of Sciences Category 2 TOP Journal, IF: 3.14)**

- Dong, J.; Wang, T.; He, Z.; Shi, Y.; **Li, L.**; Huang, P.; Zeng, G. Effective Excess Noise Suppression in Continuous-Variable Quantum Key Distribution through Carrier Frequency Switching. *Entropy* 2023, 25, 1286, **2023. (Chinese Academy of Sciences Category 2 TOP Journal, IF: 2.7)**

- Wang, T., Huang, P., **Li, L.**, Zhou, Y., & Zeng, G. High key rate continuous-variable quantum key distribution using telecom optical components. *New Journal of Physics*, 26(2), 023002. **2024. (Chinese Academy of Sciences Category 2 TOP Journal, IF: 3.3)**

- Xiang, J., Wang, T., **Li, L.** et al. Pre-calibration and compensation of quadrature components in continuous-variable quantum key distribution. *Quantum Inf Process* 22, 33. **2023. (Chinese Academy of Sciences Category 2 TOP Journal, IF: 2.5)**

- T. Wang, Y. Xu, H. Zhao, **L. Li**, P. Huang, & G. Zeng. "Multi-rate and multi-protocol continuous-variable quantum key distribution," *Opt. Lett.* 48, 719-722. **2023. (Chinese Academy of Sciences Category 2 TOP Journal, IF: 3.6)**

- Huanxi Zhao, Tao Wang, Yuehan Xu, **Li, L.**, Zicong Tan, Piao Tan, Peng Huang, and Guihua Zeng, "Continuous-variable quantum key distribution robust against environmental disturbances," *Opt. Express* 32, 7783-7799 . **2024. (Chinese Academy of Sciences Category 2 TOP Journal, IF: 3.6)**

- Wang, T., Xu, Y., **Li, L**., Liu, X., Tan, Z., Huang, P., & Zeng, G. Continuous-variable Quantum Key Distribution Access Network. In *2024 Photonics & Electromagnetics Research Symposium (PIERS)* (pp. 1-7). IEEE. **2024. (Oral presentation) （Top international conference in the field of electromagnetics.）**

## Conferences

- **Li, L.**, T. Wang, P. Huang and G. Zeng, Continuous Variable Measurement Device Independent Quantum Key Distribution with Flawed On-Chip Light Sources, *the International Conference on Quantum Photonics (QPhotoniX 2023)* Jinhua , China, November, **2023.（Oral Presentation） （全国量子信息领域顶会, Top national conference in the field of quantum information.）**

- **Li, L.,** et al. On-chip quantum communication with optical continuous variable. *China Quantum Cryptography Academic Annual Conference*, Nanjing, Jiangshu, **2024. (Oral Presentation)（全国量子密码领域顶会, Top national conference in the field of quantum cryptography.）**

- **Li, L.,** et al. Hundred-kilometers level continuous-variable quantum key distribution system with on-chip light sources. *China Quantum Cryptography Academic Annual Conference*, Haikou, Hainan, **2023. (Oral Presentation)（全国量子光学领域顶会, Top national conference in the field of quantum optics.）**

- **Li, L.,** et al. Practical security of on-chip continuous-variable quantum key distribution. *The 19th National academic Conference on Quantum Optics*, Nanchang, Jiangxi, **2021. (Oral Presentation)(全国量子光学领域顶会, Top national conference in the field of quantum optics.）**

- **Li, L.,** et al. Practical security of a chip-based continuous-variable quantum-key-distribution system. *The 11th Annual Conference on Quantum Cryptography*, Roeterseiland Campus, Nieuwe Achtergracht 166, 1018 WD Amsterdam, The Netherlands, Agust, **2021. （国际量子密码领域顶会, Top international conference in the field of quantum cryptography.）**

- **Li, L.,** et al. Forced carrier perturbation opens a loophole for chip-based continuous-variable quantum key distribution system. *The 12th Annual Conference on Quantum Cryptography*, Academia Sinica, Taipei, Taiwan, China, Agust, **2022. （国际量子密码领域顶会, Top international conference in the field of quantum cryptography.）**

- **Li, L.,** et al. Forced carrier perturbation opens a loophole for chip-based continuous-variable quantum key distribution system. *The 20th National academic Conference on Quantum Optics*, Qingyuan, Guangdong, **2022.（全国量子光学领域顶会, Top national conference in the field of quantum optics.）**

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- Wang, T., Huang, P., Wang, S., **Li, L.,** Zuo, Z., Dong, J., Zeng, G. Carrier synchronization for continuous-variable measurement-device-independent quantum key distribution with a real local oscillator. *China Quantum Cryptography Academic Annual Conference*, Shenyang, Liaoning, China, **2022. （Top national conference in the field of quantum cryptography.）**

- Dong, J., Wang, T., **Li, L.,** Huang, P., & Zeng, G. Efficient frame synchronization using a weak coherent state for continuous-variable quantum key distribution. *The 11th Annual Conference on Quantum Cryptography*, Roeterseiland Campus, Nieuwe Achtergracht 166, 1018 WD Amsterdam, The Netherlands, Agust, 2022. **（Top national conference in the field of quantum cryptography.）**

- Wang, T., Huang, P., **Li, L.,** Xu, Y., & Zeng, G. Multi-rate and multi-protocol quantum key distribution system using continuous variables. *The 11th Annual Conference on Quantum Cryptography*, Roeterseiland Campus, Nieuwe Achtergracht 166, 1018 WD Amsterdam, The Netherlands, Agust, 2022. **（国际量子密码领域顶会, Top national conference in the field of quantum cryptography.）**

- Dong, J., Wang, T., **Li, L.**, Huang, P., & Zeng, G. Frame synchronization scheme based on weak coherent light. *China Cryptography Society Quantum Cryptography Academic Annual Conference*, Shenyang, Liaoning, China, 2022. **（全国量子密码领域顶会, Top national conference in the field of quantum cryptography.）**

- Wang, T., **Li, L**., Wei, S., Zhao, H., Huang, P., & Zeng, G. Advances in High-Performance Continuous-Variable Quantum Key Distribution Technology. *China Cryptography Society Quantum Cryptography Academic Annual Conference*, Shenyang, Liaoning, China, 2022. **(Invited talk)（全国量子密码领域顶会, Top national conference in the field of quantum cryptography.**