五、著作目錄(建議呈現有利於計畫審查之著作目錄，頁數以2頁為限) ：

備註：

(一)版面設定：A4紙，即長29.7公分，寬21公分。

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(三)字體：以中英文撰寫均可。英文使用Times New Roman Font，中文使用標楷體，字體大小以12號為主。

**Journal Publications**

1. Y. Sang, C.-Y. Wang, S. S. Raja, C.-W. Chang, J.-T. Huang, C.-A. Chen, X.-Q. Zhang, H. Ahn, C.-K. Shih, Y.-H. Lee, J. Shi, and S. Gwo\*, “Two-Dimensional Material Non-Hermitian Photonics,” **Accepted in Nano Lett*.***
2. Z.-W. Huang, Y.-H. Hong, Y.-J. Du, T.-J. Kuo, C.-C. Huang, T. S. Kao,\* and **H. Ahn,\*** “THz Analysis of CH3NH3PbI3 Perovskites Associated with Graphene and Silver Nanowire Electrodes,” *ACS Appl. Mater. Interfaces.* **13**, 9224–9231 (2021).
3. C.-Y. Wang, Y. Sang, X. Yang, S. Raja, C.-W. Cheng, H. Li, Y. Ding, S. Sun, **H. Ahn**, C.-K. Shih, S. Gwo,\* J. Shi,\* “Engineering Giant Rabi Splitting via Strong Coupling between Localized and Propagating Plasmon Modes on Metal Surface Lattices: Observation of √N scaling Rule,” *Nano Lett.* **21**, 605–611 (2021).
4. W.-Y. Liang, F. Liu, J. Popović, A. Djurišić, and **H. Ahn\***, “High optical nonlinearity in low-dimensional halide perovskite polycrystalline films,” *Optics Express,* **28**, 24919−24927 (2020).
5. H.-S. Tsai, Y.-H. Huang, P.-C. Tsai, Y.-J. Chen, **H. Ahn**, S.-Y. Lin, Y.-J. Lu, “Ultrafast Exciton Dynamics in Scalable Monolayer MoS2 Synthesized by Metal Sulfurization,” *ACS Omega*, **5**, 10725−10730 (2020).
6. W.-P. Guo, W.-Y. Liang, C.-W. Cheng, P.-J. Cheng, W.-L. Wu, Y.-T. Wang, Q. Sun, S. Zu, H. Misawa, S.-W. Chang, **H. Ahn,\*** M.-T. Lin,\* S. Gwo,\* “Chiral second-harmonic generation from monolayer WS2/aluminum plasmonic vortex metalens,” *Nano Lett*. **20**(4), 2857-2864 (2020).
7. C.-W. Lin, F. Liu, T.-Y, Chen, K.-H. Lee, C.-K, Chang, Y. He, T. L. Leung, A. M. C. Ng, C.-H. Hsu, J. Popović, A. Djurišić,\* and **H. Ahn\***, “Structure-Dependent Photoluminescence in Low-Dimensional Ethylammonium, Propylammonium, and Butylammonium Lead Iodide Perovskites,” *ACS Appl. Mater. Interfaces* **12**, 5008−5016 (2020).
8. **H. Ahn\*** and G.-H. Lee, “Efficient defect healing of transition metal dichalcogenides by phthalocyanines”, *Proc. of SPIE* Vol. 10920 109200R-1 (2019).
9. **H. Ahn,\*** Y.-C. Huang, C.-W. Lin, and Y.-H. Lee, “Efficient defect healing of transition metal dichalcogenides by metallophthalocyanine,” *ACS Appl. Mater. Interfaces* 10, 29145 (2018).
10. J. Shi, W.-Y. Liang, **H. Ahn,\*** S. S. Raja, Y. Sang, X.-Q. Zhang, C.-A. Chen, Y. Wang, X. Yang, Y.-H. Lee,\* and S. Gwo\*, “Plasmonic enhancement and manipulation of optical nonlinearity in monolayer tungsten disulfide,” *Laser & Photonics Rev.* 2018, 1800188 (2018).
11. Y. Sang, X. Wu,S. S. Raja, C.-Y. Wang, H. Li, Y. Ding, D. Liu, J. Zhou, **H. Ahn**, S. Gwo, and J. Shi, “Broadband Multifunctional Plasmonic Logic Gates,” *Adv. Optical. Mater.* **2018**, 1701368(2018).
12. **H. Ahn,\*** H. Huang, M.-S. Li, and P. Chen, “Phonon mode splitting and the role of mesoporous TiO2 in the tetragonal CH3NH3PbI3 perovskites studied by THz spectroscopy,” *Jap. J. of Appl. Phys.* **56**, 110307 (2017).
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17. C.-Y. Wang, H.-Y. Chen, L. Sun, W.-L. Chen, Y.-M. Chang, **H. Ahn**, X. Li, and S. Gwo, “Giant colloidal silver crystals for low-loss linear and nonlinear plasmonics,” *Nature Communications* **6**, 7734 (2015).
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19. J.-Z. Chen, **H. Ahn,\***S.-C. Yen, and Y.-J. Tsai, “Thermally Induced Percolational Transition and Thermal Stability of Silver Nanowire Networks Studied by THz Spectroscopy,” *ACS Appl. Mater. Interfaces*, **6**, 20994 (2014).
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22. **H. Ahn,\*** Y.-S. Liu, K.-Y. Chang, and S. Gwo, “Photoluminescence from InN Nanorod Arrays with a Critical Size,” *Appl. Phys. Express* **6**, 062103 (2013).
23. **H. Ahn,\*** J.-W. Chia, H.-M. Lee, and S. Gwo, “Influence of structural anisotropy to anisotropic electron mobility in a-plane InN,” *Appl. Phys. Lett*. 102, 061904 (2013).
24. **H. Ahn,\*** M-T. Lee, Y.-M. Chang, J.-L. Peng, and S. Gwo, “Nonlinear absorption in InN under resonant- and non-resonant excitation,” Proc. of SPIE, Gallium Nitride Materials and Devices VIII, **8625** (2013).

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