

SELECTED PUBLICATIONS (H index = 17, updated on 08/2025)

1. **W.F. Io**, S-Y. Pang, L.W. Wong, Y. Zhao, R. Ding, J. Mao, Y. Zhao, F. Guo, S. Yuan, J. Zhao, J. Yi, J. Hao*, Direct observation of intrinsic room-temperature ferroelectricity in 2D layered CuCrP₂S₆. *Nat. Commun.* 2023, 14, 7304. (IF: **15.7**, number of citations: **57**)
2. **W.F. Io**, M.C. Wong, S.Y. Pang, Y. Zhao, R. Ding, F. Guo, J. Hao*, Strong piezoelectric response in layered CuInP₂S₆ nanosheets for piezoelectric nanogenerators. *Nano Energy* 2022, 99, 107371. (IF: **17.1**, Number of citations: **43**)
3. **W.F. Io**, S. Yuan, S.Y. Pang, L.W. Wong, J. Zhao, and J. Hao*. Temperature- and thickness-dependence of robust out-of-plane ferroelectricity in CVD grown ultrathin van der Waals α -In₂Se₃ layers. *Nano Res.* 2020, 13, 7, 1897-1902. (IF: **9.0**, number of citations: **78**)
4. S-Y. Pang[‡], **W.F. Io**[‡] (equal contribution), F. Guo, Y. Zhao, J. Hao*, Two-dimensional MXene-based devices for information technology. *Mater. Sci. Eng. R* 2025, 163, 1008942024. (IF: **36.7**, number of citations: 13)
5. S-Y. Pang[‡], **W.F. Io**[‡] (equal contribution), L.W. Wong, J. Zhao, J. Hao*, Direct and *in situ* growth of 1T' MoS₂ and 1T MoSe₂ on electrochemically synthesized MXene as an electrocatalyst for hydrogen generation. *Nano Energy* 2022, 103, 107835. (IF: **17.1**, number of citations: 50)
6. S-Y. Pang, **W.F. Io**, L.W. Wong, J. Zhao, and J. Hao*, Efficient energy conversion and storage based on robust fluoride-free self-assembled 1d niobium carbide in 3D nanowire network. *Adv. Sci.* 2020, 7, 10, 1903680. (IF: **14.1**, number of citations: **100**)
7. F. Guo, **W.F. Io**, Z. Dang, R. Ding, S.Y. Pang, Y. Zhao, J. Hao*, Achieving reinforcement learning in a three-active-terminal neuromorphic device based on a 2D vdW ferroelectric material. *Mater. Horiz.* 2023, 10 (9), 3719-3728. (IF: **10.7**, number of citations: **14**)
8. J. Mao, J. He, **W.F. Io**, F. Guo, Z. Wu, M. Yang, J. Hao*, Strain-engineered ferroelectricity in 2H bilayer MoS₂. *ACS Nano* 2024, 18, 30360–30367. (IF: **15.8**, number of citations: **14**)
9. F. Guo, M. Song, M.C. Wong, R. Ding, **W.F. Io**, S.Y. Pang, W. Jie, J. Hao*, Multifunctional optoelectronic synapse based on ferroelectric van der Waals heterostructure for emulating the entire human visual system. *Adv. Funct. Mater.* 2022, 32, 2108014. (IF: **19**, number of citations: **125**)
10. R. Ding, Y. Lyu, Z. Wu, F. Guo, **W.F. Io**, S.-Y. Pang, Y. Zhao, J. Mao, M.-C. Wong, J. Hao, Effective piezo-phototronic enhancement of flexible photodetectors based on 2D hybrid perovskite ferroelectric single-crystalline thin-films. *Adv. Mater.* 2021, 33, 2101263. (IF: **27.4**, number of citations: **97**)
11. W Han, X. Zheng, K. Yang, C.S. Tsang, F. Zheng, L.W. Wong, K.H. Lai, T. Yang, Q. Wei, M. Li, **W.F. Io**, F. Guo, Y. Cai, N. Wang, J. Hao, S. Lau, C.-S. Lee, T.H. Ly*, M. Yang*, J. Zhao*, Phase-controllable large-area two-dimensional In₂Se₃ and ferroelectric heterophase junction. *Nat. Nanotech.* 2022, 1-9. (IF: **34.9**, number of citations: **153**)