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SCI Papers

1. Hsin-Yu Lee, Tzu-Hsien Shen, Chen-Yu Hu, Yun-Yi Tsai, **Cheng-Yen Wen** (2017, Dec). Producing atomically abrupt heterojunctions in silicon-germanium nanowires by thermal oxidation. *Nano Lett.* 17, 7494. 本人為通訊作者.
2. T.-P. Chen, C.-W. Lin, S.-S. Li, Y.-H. Tsai, **C.-Y. Wen**, W. J. Lin, F.-M. Hsiao, Y.-P. Chiu, K. Tsukagoshi, M. Osada, T. Sasaki, and C.-W. Chen. (2017, Sep) Self-assembly atomic stacking transport layer of 2D layered titania for perovskite solar cells with extended UV stability. *Adv. Energy Mater.* 8, 1701722.
3. Di-Yan Wang, Chuan-Yu Wei, Meng-Chang Lin, Chun-Jern Pan, Hung-Lung Chou, Hsin-An Chen, Ming Gong, Yingpeng Wu, Chunze Yuan, Michael Angell, Yu-Ju Hsieh, Yu-Hsun Chen, **Cheng-Yen Wen**, Chun-Wei Chen, Bing-Joe Hwang, Chia-Chun Chen and Hongjie Dai (2017, Feb). Advanced rechargeable aluminium ion battery with a high-quality natural graphite cathode. *Nat. Commun.*, 8, 14283.
4. R. J. Chang, C. H. Lee, M. K. Lee, C. W. Chen, **C. Y. Wen** (2017, Feb). Effects of Surface Oxidation of Cu substrates on the Growth Kinetics of Graphene by Chemical Vapor Deposition. *Nanoscale*, 9, 2324-2329. 本人為通訊作者.
5. Raman Sankar, Narsinga Rao G., I Panneer Muthuselvam, Christopher Butler, Nitesh Kumar, Senthil Murugan G, Chandra Shekhar, Tay-Rong Chang, **Cheng-Yen Wen**, Chun-Wei Chen, Wei-Li Lee, M.-T. Lin, Horng-Tay Jeng, Claudia Felser and F. C. Chou (2016, Dec). Polymorphic layered MoTe₂ from semiconductor, topological insulator, to Weyl semimetal. *Chem. Mater.*, 29, 699- 707.
6. Yi-Jen Huang, Tzu-Hsien Shen, Lan-Hsuan Lee, **Cheng-Yen Wen**, and Si-Chen Lee (2016, Jun). Low-power resistive random access memory by confining the formation of conducting filaments. *AIP Adv.*, 6, 065022.
7. Yi-Jen Huang, Shih-Chun Chao, Der-Hsien Lien, **Cheng-Yen Wen**, Jr-Hau He and Si-Chen Lee (2016, Apr). Dual-functional memory and threshold resistive switching based on the push-pull mechanism of oxygen ions. *Sci. Rep.*, 6, 23945.
8. Yun-Chieh Yeh, Po-Hsun Ho, **Cheng-Yen Wen**, Guo-Jiun Shu, Raman Sankar, Fang-Cheng Chou, Chun-Wei Chen (2016, Jan). Growth of the Bi₂Se₃ surface oxide for metal–semiconductor–metal device applications. *J. Phys. Chem. C*, 120, 3314-3318. 本人為通訊作者.
9. **C.-Y. Wen**, M. C. Reuter, D. Su, E. A. Stach, and F. M. Ross (2015, Feb). Strain and stability of

ultrathin Ge layers in Si/Ge/Si axial heterojunction nanowires. *Nano Lett.*, 15, 1654. 本人為第一作者.

10. Bo-Wei Huang, **Cheng-Yen Wen**, Guan-Wei Lin, Po-Yuan Chen, Yu-Hao Jiang, Peng-Kai Kao, Chu-Te Chi, Hung Chang, I-Chun Cheng, and Jian-Zhang Chen (2015, Jan). Influence of Ga/Al ratio on properties of amorphous/nanocrystalline Cu-Al-Ca-O thin films. *J. Am. Ceram. Soc.*, 98, 125.
11. Po-Hsun Ho, Shao-Sian Li, Yi-Ting Liou, **Cheng-Yen Wen**, Yi-Hsuan Chung, and Chun-Wei Chen (2015, Jan). Wavelength-selective dual p- and n-type carrier transport of an organic/graphene/inorganic heterostructure. *Adv. Mater.*, 27, 282.
12. Karla Hillerich, Kimberly A. Dick, **Cheng-Yen Wen**, Mark C. Reuter, Suneel Kodambaka, and Frances M. Ross (2013, Feb). Strategies To Control Morphology in Hybrid Group III–V/Group IV Heterostructure Nanowires. *Nano Lett.*, 13, 903-908. (SCI).
13. Christian Kallesøe, **Cheng-Yen Wen**, Timothy J. Booth, Ole Hansen, Peter Bøggild, Frances M. Ross, and Kristian Mølhave (2012, Dec). In Situ TEM Creation and Electrical Characterization of Nanowire Devices. *Nano Lett.*, 12, 2965-2970. (SCI).
14. B. J. Kim, **C.-Y. Wen**, J. Tersoff, M. C. Reuter, E. A. Stach, and F. M. Ross (2012, Oct). Growth Pathways in Ultralow Temperature Ge Nucleation from Au. *Nano Lett.*, 12, 5867. (SCI).
15. Yi-Chia Chou, **Cheng-Yen Wen**, Mark C. Reuter, Dong Su, Eric A. Stach, and Frances M. Ross (2012, Jul). Controlling the Growth of Si/Ge Nanowires and Heterojunctions Using Silver-Gold Alloy Catalysts. *ACS Nano*, 6, 6407-6415. (SCI).