

PUBLICATION LIST

NAME: HSIAO-WEN ZAN

A. SCI Journal Papers

- [1] Tzu-Yi Lee, Li-Yin Chen*, Yu-Yun Lo, Sujith Sudheendran Swayamprabha, Amit Kumar, Yu-Ming Huang, Shih-Chen Chen, Hsiao-Wen Zan, Fang-Chung Chen*, Ray-Hua Horng*, Hao-Chung Kuo*, “Technology and Applications of Micro-LEDs: Their Characteristics, Fabrication, Advancement, and Challenges”, *ACS Photonics*, 9, 9, 2905–2930, 2022 (12 Aug)
- [2] Bing-Xin Chen, Li-Yin Chen*, Hsiao-Wen Zan, Hsin-Fei Meng, Chung-An Hsieh, Jin-Bin Yang, Mei-Hsin Chen, Yu-Hsiang Cheng, “Enhancement in operational current of PTB7 based ammonia gas sensor utilizing F4-TCNQ as P-type dopant”, *Sensors and Actuators B: Chemical*, 361, 131723, 2022 (15 June)
- [3] Wen-Ling Chang, I-Ming Sun, Jie-An Tsai, Hsin-Fei Meng*, Hsiao-Wen Zan*, Li-Yin Chen*, Chia-Jung Lu, “Rapid quality test for drinking water by vertical-channel organic semiconductor gas sensor”, *Analytica Chimica Acta*, 1206, 339729, 2022 (8 May)
- [4] Chia-Hua Liu, Nguyen Pham Yen Nhi, Yi-Ming Sun, Hsin-Fei Meng*, Hsiao-Wen Zan*, Li-Yin Chen*, Zheng-Hao Huang, Ya-Chung Tian, Chao-Sung Lai, “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, 2022 (July)
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- [9] Govindsamy Madhaiyan*, An-Ting Sun, Hsiao-Wen Zan, Hsin-Fei Meng, Sheng-Fu

Horng, Li-Yin Chen*, Hsiao-Wen Hung, “Solution-processed Chloroaluminum Phthalocyanine (ClAlPc) Ammonia Gas Sensor with Vertical Organic Porous Diodes”, *Sensors*, 21(17), 5783, 2021

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B. Conference Papers

- [1]. Moumita Deb, Po-Yi Chang, Pin-Hsuan Li, Olivier Soppera, Hsiao-Wen Zan*, "Fabrication of NIR-annealed H₂S gas sensor on HDPE/resin plastic wrap using IZO thin film", 2021 Materials Resarc Society-Taiwan International Conference (MRSTIC)
- [2]. Moumita Deb, Mei-Yu Chen, Po-Yi Chang, Pin-Hsuan Li, Ming-Jen Chan, Ya-Chung Tian, Ping-Hung Yeh, Olivier Soppera*, and Hsiao-Wen Zan*, "Ultra-sensitive respiration detection mask with low cost SnO₂ sensors", 2022 Biomedical Imaging and Sensing Conference (BISC).
- [3]. Moumita Deb, Po-Yi Chang, Pin-Hsuan Li, Ming-Jen Chen, Ya-Chuang Tian, Olivier Soppera, and Hsiao-Wen Zan*, "Developing SnO₂ Based Flexible Humidity Sensor on Ultra-Soft Substrate for Breath Detection", 2022 Solid State Devices and Materials (SSDM), Chiba, Japan.
- [4]. Ching-Fu Lin, Dominique Berling, Hsiao-Wen Zan*, Olivier Soppera*, "Full NIR

laser-processed Au NPs/InZnO photodetector with improved visible light detection for colorimetric urea sensing application”, 2021 International Conference of Smart Sensors(ICSS), Distinguished Award

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- [8]. Moumita Deb, Olivier Soppera, and Hsiao-Wen Zan, “NIR Laser Annealed Metal Oxide Semiconductor for Flexible Gas Sensors”, GSELOP (Global Summit and Expo on Laser Optics and Photonics), Paris, France, 2021
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C. Patents

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