

## Bibliography from NIM of 2018 to 2021

- [1] Sun Qiao, Hu Hongbo, Akihiro Ota, et al. Key comparison in the field of acceleration on low intensity shock sensitivity. *Metrologia*, 56, *Tech.Suppl.* 09003, 2019.
- [2] Zhihua LIU, Chenguang CAI, Qi LV, Ming Yang. Improved Control of Linear Motors for Broadband Transducer Calibration[J]. *IEEE TRANSACTIONS ON INSTRUMENTATION AND MEASUREMENT(SCI)*, 2021.
- [3] Ming Yang, Chenguang CAI, Zhihua LIU, etc. Monocular vision-based calibration method for determining the frequency characteristics of low-frequency accelerometer [J]. *IEEE Sensors Journal(SCI)*, 2020:1-8.
- [4] Ming Yang, Haijiang ZHU, Chenguang CAI, etc. Monocular vision-based Earth' s gravitation method used for low-frequency vibration calibration [J]. *IEEE Access (SCI)*, 2020, 8: 129087-129093.
- [5] Ming Yang, Ying Wang, Chenguang CAI, etc. Monocular vision-based low-frequency vibration calibration method with correction of the guideway bending in a long-stroke shaker [J]. *Optics Express (SCI)*, 2019, 27(11): 15968-15981.
- [6] Zhihua LIU, Chenguang CAI, Ming Yang, etc. Testing of a MEMS Dynamic Inclinometer Using the Stewart Platform [J]. *Sensors (SCI)*, 2019, 19(19): 4233.
- [7] Qiao SUN, Jie BAI, Lei DU, et al. Investigation on high rotational speed calibration device. *XXII World Congress of the International Measurement Confederation*, 2018.
- [8] Zhe FAN, Qiao SUN, Lei DU, Jie BAI. Uncertainty evaluation for single-axis interferometric fibre optic gyroscope. *The XXII World Congress of the International Measurement Confederation (IMEKO)*, Belfast, UK, September 2018.
- [9] Chenguang CAI, Zhihua LIU, Yan Xia. Primary High Acceleration Calibration System at NIM [C]. *Journal of Physics: Conference Series (EI)*, 2018, 1065: 222007.
- [10] Ming Yang, Chenguang CAI, Ying Wang, etc. A novel low frequency vibration measurement method based on single camera [C]. *Journal of Physics: Conference Series (EI)*, 2018, 1065: 222016.
- [11] Ying Zhang, Chenguang CAI, Zhihua LIU, etc. A high precision edge detection method for the blurred image in motion measurement [C]. *Proc. of SPIE (EI)*, 2019, 11053: 1.
- [12] Shengyang Zhou, Chenguang CAI, Ying Wang, etc. A novel Earth' s gravity method for accelerometer calibration [C]. *Proc. of SPIE (EI)*, 2019, 11053: 1.
- [13] Hao Cheng, Chenguang CAI, Ying Wang, etc. A High Precision Rotating Line Detection Method for the Rotation Angle Measurement Based on Machine Vision[C]. *Journal of Physics:Conference Series (EI)*,2020,1627: 1.
- [14] Qi LV, Chenguang CAI, Guodong Zhai, etc. Study on resonant high-acceleration calibration system [C]. *Proc. of SPIE (EI)*, 2019, 11053: 1.

- [15] Xing Guangzhen, Volker Wilkens, Yang Ping. Review of field characterization techniques for high intensity focused ultrasound. *Metrologia*, 58 (2021) 022001
- [16] Xing Guangzhen, Yang Ping, Shou Wende, Wang Min, Feng Xiujuan, He Longbiao. Hydrophone reciprocity calibration in spherically focused ultrasonic field from 1 MHz to 15 MHz. *Acta Acustica united with Acustica*, 2019, 150: 273~283.
- [17] Xing Guangzhen, Yang Ping, Wang Min, He Longbiao, Feng Xiujuan, Koukoulas Triantafillos. Field characterization of focused transducers with a central hole using hydrophones. *Proceedings of the 25th International Congress on Sound and Vibration*, Hiroshima, Japan, 8-12 July 2018.
- [18] Xing Guangzhen, Qian Feiming, Yang Ping, Wang Min, He Longbiao, Feng Xiujuan. Hydrophone spatial averaging correction for field characterization of transducers with a central hole based on multi-Gaussian beam model. *Proceedings of the 26th International Congress on Sound and Vibration*, Montreal, Canada, 7-11 July 2019.
- [19] Xing Guangzhen, Dai Minda, Yang Ping, He Longbiao, Wang Yuebing. High intensity focused ultrasound power measurement based on cross-spectral density technique. *2019 International congress on Ultrasonics*, Bruges, Belgium, 3-6 September 2019.
- [20] Xing Guangzhen, Qian Feiming, Yang Ping, He Longbiao. Comparison of needle, membrane and fiber-optic hydrophones for quantifying HIFU pulses. *2019 International congress on Ultrasonics*, Bruges, Belgium, 3-6 September 2019.
- [21] Qian Feiming, Xing Guangzhen, Yang Ping, Hu Pengcheng, Zou Limin, Triantafillos Koukoulas. Laser-induced ultrasonic measurements for the detection and reconstruction of surface defects. *Acta Acustica*, 5 (2021) 38.
- [22] Dai Minda, Xing Guangzhen, Yang Ping, Wang Yuebing. Study on the measurement method of near-field cross-spectrum for acoustic power of focused transducer. *China Measurement& Test*, 2020, 46(3):39-43.
- [23] Dai Minda, Xing Guangzhen, Yang Ping, Wang Yuebing. Experimental research on the Brush-Target method and Calorimetry method for measurement of high intensity focused ultrasound power. *IEEE International Conference on Control*

*Science & Systems Engineering*. Wuhan, China, 21-23 August 2018

- [24] Qian Feiming, Zhu Haijiang, Xing Guangzhen, Yang Ping. Simulation of the array signals processing based on automatic gain control for two-wave mixing interferometer. *2019 IEEE 8th Data Driven Control and Learning Systems Conference*, Dali, China, 24-27 May 2019.
- [25] Yang Ping, Zhu Haijiang, Xing Guangzhen, Feng Xiujuan, He Longbiao. An algorithm to recover the ultrasound pulse signal based on laser heterodyne measurement. *Proceedings of the 25th International Congress on Sound and Vibration*, Hiroshima, Japan, 8-12 July 2018.
- [26] Wang Min, Yang Ping, He Longbiao, Feng Xiujuan, Xing Guangzhen. Primary calibration of hydrophones in the frequency range 10 to 500 kHz using a heterodyne interferometer. *ACTA ACUSTICA*, 2021, 46(4): 614 - 622.
- [27] Wang Min, Yang Ping, He Longbiao, et al. Design of zero-crossing demodulation system for measurement of underwater acoustic pressure by optical method. *ACTA METROLOGICA SINICA*, 2019, 40(2): 315 - 318.
- [28] Wang Min, Yang Ping, He Longbiao, et al. Measurement and reconstruction of underwater acoustic distribution using optical and tomographic techniques. *Proceedings 26th International Congress on Sound and Vibration*, Montreal, Canada, 2019
- [29] Pengcheng Yuan, Wang Min, et al. Study on calibration of hydrophones from 25 Hz to 2 kHz based on coupler reciprocity method. *IEEE CCDC*, 2019
- [30] Wang Min, Yang Ping, He Longbiao, et al. Measurement and extrapolation method for the acoustic field distribution of underwater transducer. *IEEE/MTS OCEANS*, Kobe, Japan, 2018
- [31] Wang Min, Koukoulas Triantafillos, et al. Measurement of underwater acoustic pressure in the frequency range 100 to 500 kHz using optical interferometry and discussion on associated uncertainties. *Proceedings 25th International Congress on Sound and Vibration*, Hiroshima, Japan, 2018
- [32] Xiujuan Feng; Ping Yang\*; Longbiao He; Guangzhen Xing; Min Wang; Wei Ke. Improved heterodyne system using double-passed acousto-optic frequency shifters for

measuring the frequency response of photodetectors in ultrasonic applications. *Optics Express*, 2020, 28(4): 4387-4397.

[33] Feng Xiujuan, Yang Ping, He Longbiao, Wang Min, Xing Guangzhen, Influence of the frequency response of the photodetector on the heterodyne interferometer based sound pressure standards in water, *Applied Optics*, 2018, 32(10), 9635-9642.

[34] Wang Haoyu, Feng Xiujuan, Zhu Haijiang, He Longbiao, Triantafillos Koukoulas and Yang Ping, An investigation of monopole sound field reconstruction based on the acousto-optic effect in air, *ICSV25*, 2018