

## Publications

- [1] Q. Y. Ren, and J.-P. Hermand. Passive interferometry for geoacoustic characterization of soft layered sediment. *The Journal of the Acoustical Society of America*. 2013, **133**(1): 82–93.
- [2] Q. Y. Ren, and J.-P. Hermand. A sequential filtering technique for geoacoustic inversion with ship of opportunity and a vector sensor. *OCEANS 2012 Hampton Roads*. Hampton Roads, Oct. 2012.
- [3] Q. Y. Ren, and J.-P. Hermand. Ocean bottom geoacoustic characterization using surface ship noise of opportunity). *OCEANS'12 MTS/IEEE Yeosu* . Yeosu, Korea, May. 2012. (Second place in the Student poster program)
- [4] Q. Y. Ren, and J.-P. Hermand. Robustness of acoustic interferometry for sediment geoacoustic characterization. *The Journal of the Acoustical Society of America*. 2012, 131(4):3241. (Abstract presentation)
- [5] J.-P. Hermand, O. Carrière, Q. Y. Ren. Passive vs active geoacoustic inversion with a compact receiver array (MREA/BP'07 sea trials). *The Journal of the Acoustical Society of America* . 2012, 131(4):3241. (Abstract presentation)
- [6] S. C. Piao, Q. Y. Ren, and J.-P. Hermand. A new method for interference structure processing and its application. *Journal of Harbin Engineering University*. 2012, **33**(3):296–301 (in Chinese).
- [7] Q. Y. Ren, J.-P. Hermand and S.C. Piao. The representation of broadband vector field. *Journal of Marine Science and Application*, 2011, **10**:495–501.
- [8] Q. Y. Ren, J.-P. Hermand and S.C. Piao. Acoustic interferometry for sediment geoacoustic characterization using broadband ship noise in the Yellow Shark environment. *Pacific Rim Underwater Acoustics Conference 11*, Korea, Oct, 2011.
- [9] Q. Y. Ren and J.-P. Hermand. A robust passive interferometry technique for sediment geoacoustic characterization. *OCEANS '11 MTS/IEEE Kona*. Hawaii, 2011. (Invited student poster)
- [10] J.-P. Hermand, M. Asch, O. Grøn, Q. Y. Ren. Modelling flint acoustics for detection of submerged Stone Age sites. *OCEANS '11 MTS/IEEE Kona*. Hawaii, 2011.

- [11] Q. Y. Ren, S. C. Piao, and J.-P. Hermand. The interference phenomena of the broad-band vector field and striation processing. in *4th international conference and exhibition on Underwater Acoustic Measurements: Technologies and Results*. Greece, 2011 (Invited paper).
- [12] Q. Y. Ren and J.-P. Hermand. Striation processing for sediment geoacoustic characterization . in *161st meeting of the acoustical society of America*. Seattle, 2011. (Abstract presentation)
- [13] Q. Y. Ren and J.-P. Hermand. Acoustic interferometry for the characterization of shallow water environments. in “*Who’s-doing-what in acoustics in Belgium ?*” organized by the Belgian Acoustical Society (ABAV). Brussels, Feb, 2011. (Abstract presentation)
- [14] Q. Y. Ren and J.-P. Hermand. Acoustic striation processing for ocean bottom characterization. in *OCEANS 2011 SANTANDER*, Spain, 2011.
- [15] Q. Y. Ren, Ole Grøn and J.-P. Hermand. On the in-situ detection of flint for Stone Age underwater archaeology. in *OCEANS 2011 SANTANDER*, Spain, 2011.
- [16] Q. Y. Ren, J.-P. Hermand, and S.C. Piao. Acoustic interferometry for sediment characterization. In *10th International Conference on Theoretical and Computational Acoustics (ICTCA 2011)*, Taiwan, China.
- [17] Q. Y. Ren, J.-P. Hermand, and S.C. Piao. Space-Frequency Distribution of the Vector Field of Broad-Band Sound in Shallow Water. In *OCEANS 10 MTS/IEEE Seattle Conference - Innerspace: A Global Responsibility*, 2010.
- [18] Q. Y. Ren, S. C. Piao, and J.-P. Hermand. The characteristics of wide-band vector field striation patterns in shallow water. In *Fifth International Symposium on Acoustic Engineering and Technology (ISAET)*, 2010.
- [19] Q. Y. Ren, S. C. Piao, O. Carrière, and J.-P. Hermand. Investigation of the interference structure of broadband vector field in typical shallow water environments. In *European Conference on Ocean & Coastal Observation: Sensors and Systems (OCOSS)*, 2010.
- [20] S. C. Piao and Q. Y. Ren. Investigation of Interference Phenomena of Broadband Acoustic Vector Signals in Shallow Water. In *AIP Conference Proceedings*, pages 69–80, 2010.
- [21] S. Q. Ma, Q. Y. Ren, S. C. Piao, and S. E. Yang. Vector acoustic field calculation using the parabolic equation method, *Journal of Harbin Engineering University*, 2009, **30(7)**:775–780.
- [22] H. G. Zhang, S. E. Yang, S. C. Piao, Q. Y. Ren, and S. Q. Ma. A method for calculating an acoustic vector field. *Journal of Harbin Engineering University*, 2010, **31(4)**:470–475.

- [23] Q. Y. Ren, S. C. Piao, H. G. Zhang, and F. B. Chen; . Investigation of interference phenomena of vector field in shallow water. In *Joint Conference of the 2009 Symposium on Piezoelectricity, Acoustic Waves and Device Applications (SPAWDA) and China Symposium on Frequency Control Technology*, 2009.
- [24] H. G. Zhang, S. C. Piao, Q. Y. Ren, and B. Gao. Research on calibration of the sound source at very low frequency. In *Joint Conference of the 2009 Symposium on Piezoelectricity, Acoustic Waves and Device Applications (SPAWDA) and China Symposium on Frequency Control Technology*, 2009.
- [25] Q. Y. Ren and S. C. Piao. Acquiring underwater explosion acoustic information based on energy time-frequency distribution reassigned. In *Doctoral Forum of China, Shipping and Marine Engineering*, 2007.