

Shilong SUN



## Employment

## Publications

### **Modeling of a horizontal asymmetric U-shaped vibration-based piezoelectric energy harvester (U-VPEH)**

Sun, S. & Tse, P. W., 1 Jan 2019, In: *Mechanical Systems and Signal Processing*. 114, p. 467-485 Scopus citations: 48

### **The Design and Performance of a Novel Vibration-Based Energy Harvester Adopted Various Machine Rotational Frequencies**

Tse, P. W. & Sun, S., 2019, *Asset Intelligence through Integration and Interoperability and Contemporary Vibration Engineering Technologies: Proceedings of the 12th World Congress on Engineering Asset Management and the 13th International Conference on Vibration Engineering and Technology of Machinery*. Mathew, J., Lim, C. W., Ma, L., Sands, D., Cholette, M. E. & Borghesani, P. (eds.). Springer, Cham, p. 625-632 (Lecture Notes in Mechanical Engineering).

### **Theoretical and Experimental Study of Nonlinear and Electro-Magneto-Mechanical-Based Piezoelectric Vibration Energy Harvester**

Sun, S. & Zhang, X., 2019, In: *Shock and Vibration*. 2019, 9093605.

### **A NOVEL DESIGN OF A MULTI-MODEL AND VIBRATION-BASED PIEZOELECTRIC ENERGY HARVESTER**

Tse, P. W. & Sun, S., May 2018, *Proceedings of Academicsera 19<sup>th</sup> International Conference*. p. 10-17

### **Design and performance of a multimodal vibration-based energy harvester model for machine rotational frequencies**

Sun, S. & Tse, P. W., Jun 2017, In: *Applied Physics Letters*. 110, 24, 243902. Scopus citations: 22

### **Study of Piezoelectric Vibration Energy Harvester Design with Magneto Rheological Elastomers**

TSE, W. T. P. & SUN, S., 30 Mar 2017.

### **An Enhanced Factor Analysis of Performance Degradation Assessment on Slurry Pump Impellers**

Sun, S., Tse, P. W. & Tse, Y. L., 2017, In: *Shock and Vibration*. 2017, 1524840. Scopus citations: 4

### **A general sequential Monte Carlo method based optimal wavelet filter: A Bayesian approach for extracting bearing fault features**

Wang, D., Sun, S. & Tse, P. W., Feb 2015, In: *Mechanical Systems and Signal Processing*. 52-53, p. 293-308 Scopus citations: 41

## Prizes

### **Academicsera Excellent Paper Award**

TSE, Wai Tat Peter (Recipient) & SUN, Shilong (Recipient), 26 May 2018

### **Hall 8 Active Resident Award**

SUN, Shilong (Recipient), 16 Aug 2016

### **Hall 8 Active Resident Award**

SUN, Shilong (Recipient), 2017

**Outstanding Academic Performance Award for Research Degree Students (non-local UGC-funded students)**  
SUN, Shilong (Recipient), 16 Aug 2016

**Outstanding Academic Performance Award in City University of Hong Kong**  
SUN, Shilong (Recipient), 2017

**Research Tuition Scholarship**  
SUN, Shilong (Recipient), 1 Sep 2017

**Research Tuition Scholarship in City University of Hong Kong**  
SUN, Shilong (Recipient), 2017