Complete Curriculum Vita

Name: Shaoyun Wang
Gender: Male
Date of Birth: 2 September, 1993
Address: Ningbo University, Ningbo, Zhejiang, China
Work Phone: +86 15757828359
GPA: 3.29/4
TOEFL: 88
GRE General: Verbal: 150, Quantitative: 165, Writing: 3.0
E-mail: shaoyunwang88@outlook.com
GitHub: https://github.com/wangshaoyun
ResearchGate: https://www.researchgate.net/profile/Shaoyun_Wang2

1. EDUCATION

Sep. 2016 – Jun. 2019 **M.S. in Theoretical Physics**
Ningbo University, China
Advisor: Chaohui Tong, *Molecular simulation of polyelectrolytes,*
Advisor: Ji Wang, *Dynamical theory of plates*

Sep. 2012 – Jun. 2016 **B.E. in Engineering Mechanics**
Ningbo University, China

2. EXPERIENCE

Jul. 2019 – Now **Research Assistant**
Ningbo University, China
Monte Carlo simulation of weak polyelectrolytes

Sep. 2016 – Jun. 2017 **Teaching Assistant**
Employed by the faculty of physics in Ningbo University
Corrected assignments and interpreted the questions.

Sep. 2013 – Jun. 2016 **Class Monitor**

Jul. 2013 – Aug. 2013 **Internship in a Company that Fabricate Resonators**

3. HONORS AND AWARDS

1. Second-class Scholarship of Ningbo University (2018, 2013).
2. Student best paper finalists, Second Academic Forum for Postgraduate of Mechanics between Ningbo University and Zhejiang University (2018).
3. First-class Scholarship of Ningbo University (2016).
4. Student best paper finalists, Symposium on Piezoelectricity Acoustical Theory and Device Application (2016).

4. Patents

1. **S. Y. Wang,** J. Wang, L. M. Zhang, L. T. Xie, T. F. Ma, J. K. Du, M. C. Chao. A Novel Quartz Cut for Thermometer Resonator. Chinese Patent, submitted.

2. **S. Y. Wang**, J. Wang, L. M. Zhang, L. T. Xie. Novel Quartz Resonator Cuts with Stable Frequency-Temperature Property. Chinese Patent, to be submitted.

5. Publications

1. **S. Y. Wang**, C. H. Tong. Cell-lists Method for Monte Carlo Simulation, to be submitted.
2. Y. Ji, **S. Y. Wang**, C. H. Tong. The Collapse of Polyelectrolyte Brushes Made of 4-arm Stars Mediated by Trivalent Salt Ions and an Electric Field, to be submitted.
3. T. B. Wang, **S. Y. Wang**, C. H. Tong. Charge Reversal of Polyelectrolyte Brushes Under a Collapsing Electric Field, to be submitted.
4. **S. Y. Wang,** C. H. Tong. Surface Switching of Mixed Polyelectrolyte Brushes Made of 4-arm Stars and Linear Chains: MD Simulations, *Journal of Applied Physics*, under review.
5. F. Zhang, **S. Y. Wang,** H. T. Ding, C. H. Tong (2019). Simulations of 3-Arm Polyelectrolyte Star Brushes under External Electric Fields, *Soft Matter*, 15, 2560-2570. (Back cover).
6. **S. Y. Wang,** L. T. Xie, L. M. Zhang, R. X. Wu, J. K. Du, J. Wang (2019). Novel Cuts of Triply-Rotated Quartz Crystal for Resonators With Ideal Cubic Frequency-Temperature Relations. *Proceedings of the 2019 Symposium on Piezoelectricity, Acoustic Waves and Device Applications*, Paper number: 18584340.
7. Xie. L. T., **S. Y. Wang**, C. Z. Zhang, J. Wang (2018). An Analysis of the Thickness Vibration of an Unelectroded Doubly-rotated Quartz Circular Plate. *Journal of Acoustical Society of America*, 144 (2), pp. 814-821
8. **S. Y. Wang**, L. M. Zhang, L. T. Xie, B. Huang, A. B. Zhang, J. K. Du, R. X. Wu, J. Wang, Y. K. Yong (2018). Novel Quartz Crystal Cuts for SAW Substrates with Cubic Frequency-temperature Relations, *2018 IEEE International Ultrasonics Symposium*, Paper number: 18348332.
9. Zhang, L. M., **Wang S. Y.**, L. T. Xie, T. F. Ma, J. K. Du, J. Wang (2018). Frequency-temperature Relations of Novel Cuts of Quartz Crystals for Resonator Applications, *2018 IEEE International Frequency Control Symposium*, Paper number: 18384201.
10. J. Wang, L. M. Zhang., **S. Y. Wang.**, L. T. Xie, B. Huang, T. F. Ma, J. K. Du, M. C. Chao, J. L. Shen, R. X. Wu, H. F. Zhang (2017). Optimal Orientations of Quartz Crystals for Bulk Acoustic Wave Resonators with the Consideration of Thermal Properties, *2017 Proceedings of Meetings on Acoustics*, 32 (1).
11. **S. Y. Wang**, R. X. Wu, S. Y. Pao, L. M. Zhang, T. F. Ma, J. K. Du, J. Wang (2016). The Frequency Equation of Thickness-shear Vibrations of SC-cut Quartz Crystal Plates, *Proceedings of the 2016 Symposium on Piezoelectricity, Acoustic Waves and Device Applications*, pp. 230-234.
12. **S. Y. Wang**, B. Neubig, J. H. Wu, T. F. Ma, J. K. Du, J. Wang (2016). Extension of the Frequency Aging Model of Crystal Resonators and Oscillators by the Arrhenius Factor, *Proceedings of the 2016 Symposium on Piezoelectricity, Acoustic Waves and Device Applications*, pp. 269-272.

13. **S. Y. Wang**, B. Neubig, K. Sato, T. Hosoda, E. Seydel, J. H. Wu, T. F. Ma, J. Wang (2016). Aging Models and Parameters of Quartz Crystal Resonators and Oscillators, *Proceedings of the 2015 Symposium on Piezoelectricity, Acoustic Waves and Device Applications*, pp. 382-385.