师资队伍

Teaching Staff

全体教师

名师风采

职称检索

姓名检索

姓 名：王晓玲

职 称：教授

学 位：博士

所在系所：机械控制与装备工程系

行政职务：无

办公地点：机电楼1106A

办公电话：

电子邮箱：xiaoling@me.ustb.edu.cn

科研方向：生物力学，细菌生物膜，生物系统中的相变力学

本科生课程：生物机械工程（双语）、生物力学工程（双语）、自然界中的相变（双语）

教育经历：

1996.09-2000.07 北京理工大学应用力学系，学士
2000.09-2003.01 北京理工大学应用力学系，硕士
2003.01-2006.12 香港科技大学机械工程系，博士

工作经历：

2006.09-2007.12 香港大学医学院 博士后
2008.01-2012.07 北京科技大学 讲师
2012.07-2017.07 北京科技大学 副教授
2017.07-现在 北京科技大学 教授
2018.07-现在 北京科技大学 博士生导师
2013.02-2013.08 美国西北大学 访问学者
2013.09-2014.02 美国哈佛大学 访问学者

代表性论著：

1. Xiaoling Wang, Kai Zhao and Hui Zhao. Finite Element Simulation of Biofilm Viscoelastic Behavior Loadings. Accepted by Journal of Mechanics in Medicine and Biology, June 12, 2018.
2. Siddarth Srinivasan, Ioana D. Vladescu, Stephan A. Koehler, Xiaoling Wang, Madhav Mani, and Shr Matrix Production and Sporulation in Bacillus subtilis Biofilms Localize to Propagating Wave Fronts. E 1–9, March 27, 2018. https://doi.org/10.1016/j.bpj.2018.02.002
3. Cheng Zhang, Bo Li, Jing-Ying Tang, Xiaoling Wang, Zhao Qin and Xi-Qiao Feng. Experimental an the morphogenesis of bacterial biofilms. Soft Matter, accepted on 08 Sep 2017 and first published on 08 DOI:10.1039/C7SM01593C
4. Xiaoling Wang, Shuo Meng and Jingshi Han. A Continuum Theoretical Model and Finite Elements S Flagellar Filament Phase Transition. Journal of Biomechanics, accepted on Sep. 7 2017. DOI: http://dx.doi.org/10.1016/j.jbiomech.2017.09.012
5. Xiaoling Wang, Shuo Meng and Jingshi Han. Morphologies and phenotypes in Bacillus subtilis biofil Microbiology (2017) Vol. 55, No. 9, pp. DOI 10.1007/s12275-017-7041-z
6. Xianlong Zhang, Xiaoling Wang, Qingping Sun. Modeling of Biofilm Growth on Ager Substrate Usi Element Method. Procedia IUTAM, 2017 (23), 33-41. doi: 10.1016/j.piutam.2017.06.003

7. Xianlong Zhang, Xiaoling Wang, Kai Nie, Mingpeng Li, Qingping Sun. Simulation of Bacillus subtil agar plate by diffusion–reaction based continuum model. Physical Biology 13(4):046002 · July 2016. D 3975/13/4/046002
8. Jun-ichi Matsushita, Tatsuki Satsukawa, Naoya Iwamoto, Xiaoling Wang, Jianfeng Yang, Tomoyo G Xiaoyong Wu, Shu Yin, and Tsugio Sato. Oxidation of Pentatitanium Trisilicide (Ti5Si3) Powder at Hig Materials Science Forum, 868, 38-42 (2016), DOI: 10.4028/www.scientific.net/MSF.868.38
9. Xiaoling Wang, Mudong Hao, Xin Du, Guoqing Wang, Junichi Matsushita. The mechanical analysis nucleation and geometry characterization in microfluidic channels. Computational and Mathematical M 2016: 1-10. http://dx.doi.org/10.1155/2016/7819403.
10. Xiaoling Wang, Stephan A. Koehler, James N. Wilking，Naveen N. Sinha, Matthew T. Cabeen, S Agnese Seminara, Shmuel Rubinstein, Qingping Sun, Michael P. Brenner, David A. Weitz. Probing Phe expanding Bacillus subtilis biofilms, be accepted by Applied Microbiology and Biotechnology, Probing expanding Bacillus subtilis biofilms, Applied Microbiology and Biotechnology, 2016, 100(10), 4607-46 10.1007/s00253-016-7461-4.
11. Xiaoling Wang, Han JS, Li Kui, Wang GQ and Hao MD, Multi-Layer composite mechanical mode inhomogeneous biofilm mechanical behavior, Computational Biology and Chemistry, 2016, 14(4), 165(http://dx.doi.org/10.1142/S0219720016500141
12. Matsushita J, Tsuchiyama T, Hamaguchi K, Iwamoto N, Xiaoling Wang, Yang JF, Sekino, Wu XY Anatase Type Titanium Dioxide Prepared by Oxidation of Titanium Carbide, Materials Science Forum, DOI: 10.4028/www.scientific.net/MSF.860.92
13. Xiaoling Wang, Hao MD and Wang GQ, Numerical simulation of wrinkle morphology formation a different Bacillus subtilis biofilms, Water Science and Technology, 2016, 73(3), 527-534. DOI: 10.216(
14. Xiaoling Wang, Hou YR, Wang GQ Hao MD and Li H, Parametric Optimization of Metal Conduc Electronics Design, Circuit World, 2016, Vol.42 (2), 89-94. DOI:10.1108/CW-08-2015-0043.
15. Dong L, Zhou RH, Xiaoling Wang, Hu GK, Sun QP, On interfacial energy of macroscopic domain NiTi shape memory alloys, International Journal of Solids and Structures, 2016, 80, 445-455.
16. Xiaoling Wang, Wang GQ and Hao MD, Modeling of the Bacillus subtilis Bacterial Biofilm Grow Substrate, Computational and Mathematical Methods in Medicine. 2015, 9, 1-10, DOI:10.1155/2015/58
17. Xiaoling Wang, Hao L and Wang GQ, Effect of the geometric parameters of elastomer substrates c stretchable electronics, Chinese Journal of Engineering, 2015, 37 (s1), 24-28
18. Xiaoling Wang, and Q. P. Sun, Modeling of rate-dependent phase transition in bacterial flagellar fi Research Bulletin, Materials Research Bulletin, 2013, 43, 5019-5025. DOI: 10.1016/j.materresbull.2013
19. Xiaoling Wang, Sun QingPing. Mechanical Analysis of Phase Transition Experiments of the Bacte Acta mechanica Sinica, 2010, 26 (5), 777-785.
20. Xiaoling Wang, Sun QingPing. The review of phase transition in biological systems. Advances in l 2010 ,40 (1): 64-80 (in Chinese).
21. Xiaoling Wang, Sun QingPing. Mechanical modeling of the bistable bacterial flagellar filament. A 2011. 24(S), 1-16.
22. Xiaoling Wang, Yongjun He, Sun QingPing. Simulation of Bacterial flagellar phase transition by n local continuum modeling. Theoretical & Applied Mechanics Letters. 2011, 1 (4): 044001-6.
23. Xiaoling Wang, Hu GengKai. Stress transfer for a SMA fiber pulled out from an elastic matrix and Composites part A - Applied Science and Manufacturing, 2005, 36 (8): 1142-1151.
24. Xiaoling Wang, Zhao H, Virtual Medical Model Modification with Laplacian System, Internationa Biomedical Engineering & Informatics, 2010, 3(1), 1296-1299.
25. Xiaoling Wang, Zhang Q, The Mechanical Property Analysis of Circular Saw Blades under Differe Advanced Materials Research, 2010, 145, 365-370.
26. Xiaoling Wang, Zhang Y, The Analysis on Different Circular Saw Structures for Reducing Saw No Materials Research. 2010, 145, 551-556.
27. Xiaoling Wang, Zhao H, Surface Based Virtual Mechanical Equipment Modification, Advanced M 2010, 149, 693-697.
28. Xiaoling Wang, Zhao H, Virtual Mechanical Equipment Model Smoothing, Advanced Materials R 355-359.
29. Xiaoling Wang, Yin ZJ and Li YL, The stress analysis of different circular saw structures during cu Materials Research. 2011, 228, 471-476.
30. Xiaoling Wang, Yin ZJ and Zhang C, The analysis of dynamic characteristics in reduction of the ci Advanced Materials Research, 2011, 229, 477-483.
31. Xiaoling Wang, Yin ZJ and Zhang C, The mechanical analysis of the composite reinforced circular Materials Research, 2011, 228: 484-489.

成果与荣誉：

先后主持和参与国家自然科学基金委资助的青年项目、青年面上连续项目，面上项目以及重 目4项，北京市、高校以及其他项目共4项。