



师资队伍

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基本资料



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个人简介

个人简介:

教育背景

- 2003年9月 -2008年6月, 浙江大学, 工程力学, 博士
- 1999年9月 -2003年6月, 浙江大学, 工程力学, 学士

工作经历

- 2014年2月-至今, 浙江大学, 航空航天学院力学系, 教授
- 2010年1月-2013年12月, 耶鲁大学, 生物医学工程系, 博士后
- 2008年12月-2009年12月, 田纳西大学诺克斯维尔分校, 机械、航空航天与生物医学工程系, 博士后

研究方向

- 非线性随机动力学
- 生物数学
- 对肿瘤微环境的细胞体外实验研究(基于微流控芯片技术和高内涵细胞成像分析技术)

奖励或荣誉

- 青年千人计划, 中组部, 2013
- Rudolph Anderson Postdoctoral Fellowship, 耶鲁大学, 2011

期刊论文

16. M. Kwak, D.J. Kim, M.R. Lee, Y. Wu, L. Han, S.K. Lee, and R. Fan, Nanowire array chips for molecular typing of rare trafficking leukocytes with application to neurodegenerative pathology, *Nanoscale*, DOI: 10.1039/C3NR06465D (2014).
15. S. Jonas, E. Zhou, E. Deniz, B. Huang, K. Chandrasekera, D. Bhattacharya, Y. Wu, R. Fan, T.M. Deserno, M.K. Khokha, and M.A. Choma, A novel approach to quantifying ciliary physiology: microfluidic mixing driven by a ciliated biological surface, *Lab on a Chip*, 13:4160-4163(2013).
14. Y. Lu, J.J. Chen, L. Mu, Q. Xue, Y. Wu, P.H. Wu, K. Miller-Jensen, D. Wirtz, and R. Fan, High-throughput secretomic analysis of single cells to assess functional cellular heterogeneity, *Analytical Chemistry*, 85(4): 2548-2556 (2013).
13. Y. Wu, Y. Lu, W.Q. Chen, J.P. Fu, and R. Fan, In silico experimentation of glioma microenvironment development and anti-tumor therapy, *PLoS Computational Biology*, 8(2): e1002355(2012).
12. J. Zhou #, Y. Wu#, S.K. Lee, and R. Fan, High-content single-cell analysis on-chip using a laser microarray scanner, *Lab on a Chip*, 12(23):5025-5033(2012). (#equal contribution)
11. Y. Wu, L.X. Garmire, and R. Fan, Inter-cellular signaling network reveals a mechanistic transition in tumor microenvironment, *Integrative Biology*, 4:1478-1486(2012).
10. S.K. Lee, G.S. Kim, Y. Wu, Y. Lu, L. Han, D.J. Kim, J.H. Hyung, J.K. Seol, and R. Fan, Nanowire substrate-based laser scanning cytometry for quantitation of circulating tumor cells, *Nano Letters*, 12(6):2697-2704(2012).
9. D.J. Kim, J.K. Seol, Y. Wu, S. Ji, G.S. Kim, J.H. Hyung, S.Y. Lee, H. Lim, R. Fan, and S.K. Lee, A quartz nanopillar hemocytometer for high-yield separation and counting of CD4+ T lymphocytes, *Nanoscale*, 4(7):2500-2507 (2012). This article was highlighted on the cover of the issue in which it appeared.
8. Y. Wu, M.J. Zhang, J. Wu, X.P. Zhao, and L.J. Xia, Evolutionary game theoretic strategy for optimal drug delivery to influence selection pressure in treatment of HIV-1. *Journal of Mathematical Biology*, 64(3):495-512 (2012).

站内搜索

7. Y. Wu, X.P. Zhao, and M.J. Zhang, Dynamics of stochastic mutation to immunodominance. *Mathematical Biosciences and Engineering*, 9(4): 937-952 (2012).
6. L.J. Xia, S.C. Lenaghan, M.J. Zhang, Y. Wu, X.P. Zhao, J.N. Burris, and C.N. Stewart Jr, Characterization of English ivy (*Hedera helix*) adhesion force and imaging using atomic force microscopy. *Journal of Nanoparticle Research*, 13: 1029-1037 (2011).
5. Y. Wu, L.J. Xia, M.J. Zhang, and X.P. Zhao, Immunodominance analysis through interactions of CD8+ T cells and DCs in lymph nodes. *Mathematical Biosciences*, 225: 53-58(2010).
4. Y. Wu, X.P. Zhao, and M.J. Zhang, Adhesion mechanics of ivy nanoparticles. *Journal of Colloid and Interface Science*, 344: 533-540(2010).
3. Y. Wu and W.Q. Zhu, Stationary response of multi-degree-of-freedom vibro-impact systems to Poisson white noises. *Physics Letters A*, 372: 623-630 (2008).
2. Y. Wu and W.Q. Zhu, Stationary response of MD0F dissipated Hamiltonian systems to Poisson white noises. *ASME Journal of Applied Mechanics*, 75: 044502(2008).
1. Y. Wu and W.Q. Zhu, Stochastic analysis of a pulse-type prey-predator model, *Physical Review E*, 77: 041911(2008).
The article has been selected for publication in *Virtual Journal of Biological Physics Research*, 15(9), May 1(2008).
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