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教育经历:	2000-2002 北京大学电子学系博士后 1995-2000 北京大学力学系, 获理学博士学位 1990-1995 北京大学力学系, 获理学学士学位	
工作经历:	2004- 北京大学力学系副教授 2002-2004 北京大学力学系讲师 2004.12-2005.1 法国巴黎高等师范学校 微流体访问研究	
代表论文:	2000年以来共发表学术论文20余篇 1. Bo XF, Xiong CY, Fang J, An Q, Li M, Gu J. Applications of Pelvic 3D Reconstruction and Dimension Measurement to Colorectal Cancer Surgery. 27th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2005 2. Zhang J, Li M, Xiong CY, Fang J, Yi S. Thermal deformation analysis of BGA package by digital image correlation technique. Microelectronics International, 2005, 22(1):34-42 3. Chang S, Wang CS, Xiong CY, Fang J. Nanoscale In-plane Displacement Evaluation by AFM Scanning and Digital Image Correlation Processing. Nanotechnology, 2005, 16(1):344-349 4. Li M, Zhang J, Xiong CY, and Fang J. Damage and fracture prediction of plastic bonded explosive by digital image correlation processing. Optics and Lasers in Engineering, 2005, 43(8): 856-868 5. Wang CS, Xiong CY, Yang ZC, Zhang DC, Fang J. A novel electrostatically driven micromirror with lateral comb actuators and T-shaped torsion bars. IEEE 7TH INTERNATIONAL CONFERENCE ON SOLID-STATE AND INTEGRATED CIRCUITS TECHNOLOGY(ICSICT), 2004, 1880-1883 6. Xiong CY, Zhang J, Li M, Fang J, Yi S. Fourier and wavelet transform analysis of moire fringe patterns in electronic packaging. Microelectronics International, 2004, 21(2): 45-51 7. Zhang J, Xiong CY, Li HJ, Li M, Wang JX, Fang J. Damage and Fracture Evaluation of Granular Composite Materials by Digital Image Correlation Method. ACTA MECHANICA SINICA, 2004, 20(4): 408-417 8. Zhang K, Cui YJ, Xiong CY, Wang CS, Fang J. Electro-mechanical Coupling Analysis of MEMS Structures By Boundary Element Method. ACTA MECHANICA SINICA, 2004, 20(2):185-191 9. Zheng QL, Lin CL, Xiong CY, Fang J. Microfabricated Cantilever-Based Chemical Probe For PH Detection. Proc. 4th International Workshop on Microfactories, 2004, 600-604 10. Zheng QL, Xiong CY, Fang J, Design and CFD analysis of the flow in a micro-fabricated PCR-chip for leukemia diagnosis. International Journal of Nonlinear Sciences and Numerical Simulation 3 (3-4), Sp. Iss. 237-242, 2002 11. Wang CS, Xiong CY, Zhang WB, Fang J, Li ZH, Testing and simulation of a novel MEMS relay by applying digital image correlation technology, Sensors, 2002. Proceedings of IEEE, 2002, 1204-1207 12. Fang J, Xiong CY, Li HJ, Zhang J, Wavelet transform based digital image processing of photomechanics. Third International Conference on Experiment Mechanics, Proceeding of SPIE, 4537(2002), 53-58	

13. Fang J, Wang JX, Li M, Zhang J, Xiong CY, Damage and fracture study of non-homogeneous materials by image correlation computation. IUTAM Symposium on Analytical and Computational Fracture Mechanics of Non-Homogeneous Materials, Kluwer Academic Publishers, 2002, 323-332

14. Fang J, Xiong CY, Yang ZL. Digital transform processing of carrier fringe patterns from speckle-shearing in interferometry. Journal of Modern Optics, 2001, 48(3): 507-520

15. Xiong CY, Yang ZL, Fang J, Carrier Based Fringe Pattern Processing in Speckle-Shearing Interferometry. Jacquot P, Fournier JM (Eds.) Interferometry in Speckle Light: Theory and Applications, Springer, 2000, 405-412

16. Fang J, Xiong CY, Yao XF. Dynamic Behaviour of Interfacial Crack Tips in a Wedge-Shaped Bimaterial Specimen under Impact. Lagarde A(ed.) IUTAM Symposium on Advanced Optical Method and Applications in Solid Mechanics, Kluwer Academic Publishers, 2000, 563-570

17. Xiong CY, Fang J, Chen WC. A wavelet transform analysis of concentration boundary layer in crystal growth. Journal of Materials Science Letters, 2000, 19(7): 619-622

其他成果: 2002 北京大学优秀博士论文三等奖

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