



中科院院士

长江学者特聘教授

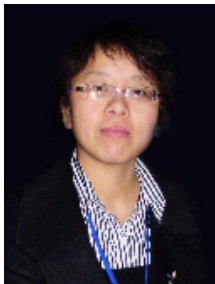
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研究领域：低温等离子体物理

研究方向：等离子体纳米技术及其应用

教育背景：

1995.9-1998.6 复旦大学物理系研究生攻读博士学位

1992.9-1995.7 厦门大学物理系研究生攻读硕士学位

1988.9-1992.7 厦门大学物理系本科生攻读学士学位

工作经历：

1998.8—至今 上海交通大学物理系教师

其间：

1999.10-1999.11 国际理论物理中心访问学者, International Center for Theoretical Physics (ICTP), Trieste, Italy

2001.5 - 2002.5 德国斯图加特大学访问学者, Institute for Plasma Research, University of Stuttgart, Germany

2002.11 - 2003.5 欧盟联合研究中心访问学者, Institute for Health and Consumer Protection (IHCP), Joint Research Center (JRC), European Commission

现有课题：

2009.8-2012.7, 基于等离子体技术的纳米结构材料可控生长理论和实验基础研究（09ZR1414600），上海市自然科学基金

荣誉奖励：

1999年获蔡诗东等离子体物理奖

2004年获上海市青年科技启明星计划资助

近三年发表主要论著（均为通讯作者）：

Xiaoxia Zhong, Xiaochen Wu, Kostya Ostrikov, Pulsed i-PVD of dielectric nanodot arrays using a nanoporous template, Plasma Process. Polym., 6, 161-169 (2009)

Xiaochen Wu, Xiaoxia Zhong, Kostya Ostrikov, Nanopore processing in dielectric materials and dielectric template-assisted nanoarray synthesis: using pulsed bias to enhance process throughput and precision, Appl. Phys. Lett., 92, 223104 (1-3) (2008)

Luqi Yuan, Xiaoxia Zhong, Kostya Ostrikov, Nanosphere monolayer-templated, ion-assisted nanofeature etching in dielectric materials: a numerical simulation of nanoscale ion flux topography, Nanotechnol., 19, 155304 (2008)

Luqi Yuan, Xiaoxia Zhong, Xiaochen Wu, Qiwei Shu, and Yuxing Xia, Investigation of plasma etching process using a dielectric porous template, J. Korean Phys. Soc., 53, 2270-2274 (2008)

Zhigao Hu, Wenwu Li, Jiada Wu, Jian Sun, Qiwei Shu, Xiaoxia Zhong, Ziqiang Zhu, Junhao Chu, Optical properties of pulsed laser deposited rutile titanium dioxide films on quartz substrates determined by Raman scattering and transmittance spectra, Appl. Phys. Lett., 93, 181910 (2008)

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Luqi Yuan, Xiaoxia Zhong, Qiwei Shu, Xiaochen Wu, Yuxing Xia, Ion Current Distribution during Depositing

Dielectric Material using an Insulating Porous Alumina Template, J. Phys. D-Appl. Phys. 40, 7766 (2007)

Wei Zhou, Xiaoxia Zhong, Xiaochen Wu, Luqi Yuan, Qiwei Shu, Yuxing Xia, Kostya(Ken) Ostrikov, Plasma-controlled nanocrystallinity and phase composition of TiO₂: a smart way to enhance biomimetic response, J. Biomed. Mater. Res. Part A 81 453 (2007)

Wei Zhou, Xiaoxia Zhong, Xiaochen Wu, Luqi Yuan, Qiwei Shu, Wei Li, Yuxing Xia, Low temperature deposition of nanocrystalline TiO₂ films: enhancement of nanocrystal formation by energetic particle bombardment, J. Phys. D. Appl. Phys. 40, 219 (2007)

Xiaochen Wu, Xiaoxia Zhong, Wei Zhou, Luqi Yuan, Qiwei Shu, Yuxing Xia Hydroxyapatite Films Deposited on TiN and TiO₂ buffer layers by Radio-frequency Magnetron Sputtering: Comparative Study, Key Engineering Materials 334-335, 1133 (2007) (IF=0.224)

Wei Zhou, Xiaoxia Zhong, Xiaochen Wu, Luqi Yuan, Qiwei Shu, Yuxing Xia, Structural and optical properties of titanium oxide thin films deposited on unheated substrate at different total pressures by reactive dc magnetron sputtering with substrate bias, J. Korean Phys. Soc. 49, 2168 (2006)

Wei Zhou, Xiaoxia Zhong, Xiaochen Wu, Luqi Yuan, Zuncheng Zhao, Hui Wang, Yuxing Xia, Yuanyong Feng, Jie He, Wantao Chen, The effect of surface roughness and wettability of nanostructured TiO₂ film on TCA-8113 epithelial-like cells. Surf. Coat. Tech. 200, 6155 (2006)