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[摘要] 张菁, 博士、教授, 东华大学理学院副院长。主要研究方向为低温等离子体技术及其应用(包括生物材料表面修饰、纳米粒子包覆、纺织材料功能涂层等方面)、材料结构与性能、常压等离子体聚合处理技术、功能膜材料的研制。现为国际等离子体化学协会会员, *Macromolecules* 杂志审稿人、国家自然科学基金项目评议人。

[关键词] 东华大学理学院;教授;低温等离子体技术;纺织材料功能涂层;材料结构;常压等离子体聚合处理技术

张菁, 博士、教授, 东华大学理学院副院长。主要研究方向为低温等离子体技术及其应用(包括生物材料表面修饰、纳米粒子包覆、纺织材料功能涂层等方面)、材料结构与性能、常压等离子体聚合处理技术、功能膜材料的研制。现为国际等离子体化学协会会员, *Macromolecules* 杂志审稿人、国家自然科学基金项目评议人。参加或承担完成国家自然科学基金、上海市科技攻关项目、上海市曙光计划项目、上海市纳米专项、留学回国人员资助计划项目等十几项。发表有关文章30余篇, 申请国家发明专利2项。学习经历: 1978.9-1982.7 成都科技大学高分子材料系本科, 学士学位 1985.9-1988.1 中国纺织大学基础部硕士研究生, 硕士学位 1994.7-1998.7 中国纺织大学材料学院在职博士, 博士学位 1998.10-1999.11 美国University of Cincinnati材料科学与工程系访问学者工作经历: 1982.7-1985.9 江苏仪征化纤公司 工程师 1988.1-现在 东华大学理学院 教授 1998.11-1999.11 美国 Procter & Gamble 公司访问专家获奖: 2001年“宝钢”全国优秀教师奖第七届曙光学者称号 2002年白玉兰科技人才奖 2002年上海教育系统“三八”红旗手发表的主要论著:

1.Xiangfen Feng, Jing Zhang, Hankun Xie, Qian Huang, Wenwen Liu, The RF Plasma Polymer Of Lysine And The Growth Of Human Nerve Cells On Its Surface, *Surface And Coating Technology*, 2003 (已校清样) 2.Jing Zhang, Xiangfen Feng, Hankun Xie, Yunchen Shi, Tianshu Pu, Ying Guo, The Characterization Of Structure-Tailored Plasma Films Deposited From The Pulsed RF Discharge, *Thin Solid Films*, 2003(已校清样)

3.Jing Zhang, Paul France, Arseni Radomyselskiy, Saswati Datta, Jianshan Zhao, William van Ooij, Hydrophobic Cotton Fabric Coated By A Thin Nanoparticulate Plasma Film, *Journal of Applied Polymer Science*, 88 (2003) No 6, p. 1473-1481.

4.Jing Zhang, William Van Ooij, Paul France, Saswati Datta, Arseniy Radmyselskiy, Hankun Xie, Investigation Of Deposition Rate And Structure Of Pulse DC Plasma Polymers, *Thin Solid Films*, 390 (2001) 123-129 (EIP01306595651, SCI cited: 447WU)

5.Zhi Shen Tong, Tian Shu Pu, Mei Zhen Wu, Zheng Yang Zhang, Jing Zhang, Ruo Peng Jing, Conductive Behavior And Structural Characteristics In The I+ Beam Implanted Layer Of Plasma-Polymerized Pyrrole Film, *Journal Of Applied Polymer Science*, 1998,69(9), 1743-1751 (EIP98032612852, SCI cited: 106HQ)

6.Jing Zhang, Mei Zhen Wu, Tian Shu Pu, Zheng Yang Zhang, Ruo Peng Jing, Zhi Shen Tong, Investigation Of The Plasma Polymer Deposited From Pyrrole, *Thin Solid Films*, 1997,307,14-20 (EIP98024083637, SCI cited: YR270, 引用1次)

7.Jing Zhang, The Surface Characterization Of Mulberry Silk Grafted With Acrylamide By Plasma Copolymerization, *J. Of Applied Polymer Science*, 1997, 64 (9),1713-1717 (EIP97053661929, SCI cited: WW913)

8.Zhi Shen Tong, Tian Shu Pu, Mei Zhen Wu, Zheng Yang Zhang, Jing Zhang, Ruo Peng Jing, The Surface Conduction Induced By Ar+ And The Characteristics In This Irradiated Surface Layer For Plasma-polymerized Pyrrole Film, *Applied Surface Science*, 1997,119, 93-102 (EIP97103863583, SCI cited: XY220, 引用1次)

9.Qingrui Wang, Xueying Chen, Jing Zhang And Yuxin Pei Study On Cellulose Based Blend Membranes.1:Compatibility Of Cellulose Acetate-Polyacrylonitrile Blend Membrane, *Polymers For Advanced Technology*, 1997,8,712-716 (EIP98024085635) 10.Zhang Jing, The Effect Of Plasma-induced Graft Copolymerization With Acrylic Acid On The Structure And Dyeing Properties Of Mulberry Silk, *J of China Textile University (English Edition)*, 1996,13(2),18-23 (EIP97073737481)

11.Zhi Shen Tong, Tian Shu Pu, Mei Zhen Wu, Zheng Yang Zhang, Jing Zhang, Ruo Peng Jing, The Study Of Damaged Layer Induced By Ar+ Irradiation In Plasma-Polymerized Thiophene Film, *Synthetic Metals*, 1996,79,85-91 (EIP96083282023, SCI cited: UV615)

12.Z. Wu, Y. Shi, H. Xie, Y.Chen, J. Zhang, J. Xu, and H.Chen, Surface Modification Of Polymer By Low Temperature Plasma Techniques, *Surface Engineering*, 1995, 11 (1), 53-56 13.冯祥芬, 谢涵坤, 张菁, 低温等离子体表面处理技术在生物医用材料中的应用, *物理*, 2002, 31 (1), 27-30 14.朱峰, 张菁, W. J. van Ooij, 等离子体聚合涂层及其棉织物的超级拒水性研究, *东华大学学报*, 2002, 9:22-31 15.蒲天舒, 张菁, 吴美珍, 张钟扬, 金若鹏, 童志深, 多层有机膜吸收系数的计算, *高分子材料科学与工程*, 1997, 13 (5), 87-91, 16.童志深, 吴美珍, 张钟扬, 蒲天舒, 金若鹏, 张菁, 朱福英, 曹德新, 曹建清, 朱德彰, 等离子体噻吩聚合膜的研究及I+注入的掺杂效应, *物理学报*, 1996, 45 (3), 455-462 17.张菁, 真丝织物等离子体接枝聚合改性, *纺织学报*, 1996, 17 (4), 8-11 (引用4次) 18.吴知非, 张菁, 改性丝织物的表面分子结构分析, *原子分子物理学报*, 1989, 6(2), 1027-1034 Proceedings of conference: 1.Molecular Tailoring Coating on TiO2 Nano-Particle Surface by Pulsed RF Plasma Polymerization, Jing Zhang*, Feng Zhu, Changnian Shi, Yunchen Shi, Zhan Chen, Qinyu Yang, Ying Guo, Rongming Zhou, Hankun Xie, 30th IEEE International Conference On Plasma Science

2.Ying Guo, Qinyu Yang, Yunchen Shi, Feng Zhu, Hankun Xie, Jing Zhang*, Hydrophobic Cotton Fabric Coated By Nano-particulate Teflon-Like Thin Film Formed Through Atmospheric Pressure Glow Discharge, The Fourth International Conference On Intelligent Processing And Manufacturing Of Materials (May, 2003, Sendai, Japan.) 3.Jing Zhang*, Ying Guo, Qinyu Yang, Yunchen Shi, Feng Zhu, Hankun Xie, Nano-particulate Film of Fluorocarbon Formed by Atmospheric Pressure Glow Discharge, The 5th International Conference On Thin Film Physics And Applications (May, 2003, Shanghai, China) 4.Feng Zhu, Qinyu Yang, Changnian Shi, Zhan Chen, Ying Guo, Hanqiu Ni, Rongming Zhou, Hankun Xie, Jing Zhang*, The Dispersion Study of TiO2 Nano-Particles Modified by Surface Tailoring Coating of Pulsed RF Plasma Polymerization, 16th International Symposium on Plasma Chemistry (June, 2003, Taormina, Italy)

5.Xiangfen Feng, Jing Zhang, Hankun Xie, Qian Huang, Wenwen Liu, The Growth Of Human Nerve Cells On The Pulse RF Plasma Polymers Of Lysine, Proceedings Of 6th Asia-Pacific Conference on Plasma Science and Technology (July, 2002, Jeju, Korea,)

6.Jing Zhang, Xiangfen Feng, Hankun Xie, Yunchen Shi, Tianshu Pu, W J Van Ooij, Study Of The Pulse RF Plasma Polymerization Of Vinyl Acetic Acid, Proceedings Of 6th Asia-Pacific Conference on Plasma Science and Technology (July, 2002, Jeju, Korea)

7.Jing Zhang, Xiangfen Feng, Immobilization Of CFNA On The RF Plasma Modified Polyethylene, Proceedings Of 6th Asia-Pacific Conference on Plasma Science and Technology (July, 2002, Jeju, Korea)

8.Jing Zhang, Qingrui Wang, Zhishen Tong, Guanhong Tan, Ning Zhang, William Van Ooij, Adhesion Improvement Of Plasma-Treated Carbon Fibers By Wet-Deposited Copper Layer, 24th Dayton-Cincinnati Airspace Science Symposium, (April, 1999, Dayton, USA)

9.Q.R. Wang, Jing Zhang, Z. W. Hou, Y.X. Pei Compatibility Of CA-PAN Blend Membrane, The Proceedings Of The 6th International Symposium On Fine Chemistry And Polymers (September, 1996, Zhenzhou, China)

10.Wu Zhifei, Zhang Jing, Modification Of Silk Fabric Surface By Plasma Graft Copolymerization, The 1st China-Japan Plasma Chemistry Symposium, P61 (May, 1988, Chengdu, China) 申请发明专利: 1.等离子体表面修饰固定化神经再生促进剂的神经导管或膜及其制备方法, 张菁, 谢涵坤, 胡群华, 陈皓, 中国发明专利, 专利申请号03115939.7 2.等离子体纳米颗粒膜双疏涂层方法, 张菁, 郭颖, 杨沁玉, 周荣铭, 中国发明专利, 专利申请号03115252.X

