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基本信息



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研究方向:

- 1、生物仿生材料
- 2、导电高分子功能材料
- 3、表界面性能研究

个人简介

教育背景

2015.4 – 2016.5 博士后加拿大滑铁卢大学 (University of Waterloo) 纳米材料
 2011.9 – 2015.4 工学博士加拿大滑铁卢大学 (University of Waterloo) 化学工程
 2009.9 – 2011.6 理学硕士加拿大滑铁卢大学 (University of Waterloo) 无机化学
 2005.9 – 2009.6 工学学士华侨大学 (Huaqiao University) 材料工程

获奖经历

2015.2 国家优秀自费留学生奖学金
 2013.11 英联邦伊丽莎白女王二世自然科学与技术奖学金
 2012.5 滑铁卢大学博士奖学金, 滑铁卢大学自然科学学院奖学金

已发表代表性文献:

- Wei Zhang, Z. Pan, F. K. Yang, B. Zhao. A Facile In-Situ Approach to Polypyrrole Functionalization through Bio-Inspired Catechols. Advanced Functional Materials. 2015, 25, 1588-1597.(影响因子:11.81)**
- Wei Zhang, Y. Zhou, K. Feng, J. Trinidad, A. Yu, B. Zhao. Morphologically Controlled Bio-Inspired Dopamine-Polypyrrole Nanostructures with Tunable Electrical Properties. Advanced Electronic Materials. 2015, 1, 1500205. (Advanced Materials 系列新刊)**
- Wei Zhang, F. K. Yang, Z. Pan, J. Zhang, B. Zhao. Bio-inspired Dopamine Functionalization of Polypyrrole for Improved Adhesion and Conductivity. Macromolecular Rapid Communication. 2014, 35, 350-354.(影响因子:4.69)**
- Wei Zhang, F. K. Yang, Y. Han, R. Gaikwad, Z. Leonenko, B. Zhao. Surface and Tribological Behaviors of the Bioinspired Polydopamine Thin Films Under Dry and Wet Conditions. Biomacromolecules. 2013, 14, 394-405.(影响因子:5.71)**
- Wei Zhang, B. M. Amoli, J. d'Eon, A. Chen, B. Zhao. Development of Novel Polydopamine-Polypyrrole Nanofibers for Electrically Conductive Adhesive Applications. Journal of Surface Mount Technology. 2015, 28, 26-31.(邀稿, 影响因子:1.02)**
- J. Trinidad, B. M. Amoli, Wei Zhang, R. Pala, B. Zhao. Viscosity and Rheological Behavior of SDS Decorated Graphene-filled Epoxy/Ag Electrically Conductive Composites. Macromolecular Materials and Engineering. 2016. mame.201600070. (影响因子:2.8)**
- F. K. Yang, Wei Zhang, Y. Han, S. Yoffe, Y. Cho, B. Zhao. "Contact" of Nanoscale Stiff Films. Langmuir. 2012, 28, 9562-9572.(影响因子:4.57)**
- Z. Pan, Wei Zhang, A. Kowalski, B. Zhao. Oleophobicity of Bio-Inspired Micro-patterned Surface and Its Effect on the Adhesion of Froze Oil. Langmuir. 2015, 31, 9901-9910.(影响因子:4.57)**
- D. Arunbabu, H. Shamsavan, Wei Zhang, B. Zhao. Poly (AAc-co-MBA) Hydrogel Films: Adhesive and**

Mechanical Properties in Aqueous Medium. Journal of Physical Chemistry B. 2013, 117,441-449.(影响因子:3.32)

J. Tang, M. F. Lee, Wei Zhang, B. Zhao, R. M. Berry, K. C. Tam. Dual Responsive Pickering Emulsion Stabilized by PDMAEMA Grafted Cellulose Nanocrystals. Biomacromolecules. 2014, 15,3052-3060.(影响因子:5.71)

C. J. Pollock, L. L.Tan, Wei Zhang, K. M. Lancaster, S.C. Lee, S. Debeer. Light-Atom Influences on the Electronic Structure of Iron-Sulfur Clusters. Inorganic Chemistry. 2014, 53, 2591-2597.(影响因子:4.76)

X. Chen, Wei Zhang, J. S. Duncan, S. C. Lee. Iron-Amide-Sulfide and Iron-Imide-Sulfide Clusters: Heteroligated Core Environments Relevant to the Nitrogenase FeMo Cofactor. Inorganic Chemistry. 2012, 51, 12891-12904.(影响因子:4.76)

专利情况

B. Zhao, Wei Zhang, F. K. Yang. "Fabrication, Composition and Application of Electrically Conductive Catechol-Polypyrrole Nanofibers" 美国专利号:US62/054, 192-2014.

学术会议

"Development of Novel Polydopamine-Polypyrrole Nanofibers for Electrically Conductive Adhesive Applications" Pan Pacific Microelectronics Symposium. 夏威夷,美国 - 2015.2.

"The Application of Using Functionalized Polypyrrole Nanofibers as Co-fillers for Electrically Conductive Adhesive" International Conference on Soldering and Reliability. 多伦多,加拿大 - 2015.5.(邀请学术报告)

"Synthesis of Electrically Conductive Polydopamine-Polypyrrole Nanocomposites" 64 Canadian Chemical Engineering Conference. 尼亚加拉大瀑布,加拿大 - 2014.10.

"Fabrication and Characterization of Electrically Conductive Silver-Polydopamine-Polypyrrole Nanocomposites" IEEE Nano: 14th International Conference on Nanotechnology. 多伦多,加拿大 - 2014.8.

"Polydopamine Nanoscale Thin Films as Multifunctional Coatings in Air and Water" International Conference on Nanoscience and Technology. 巴黎, 法国 - 2013.9.1

"Contact Mechanics of Polydopamine Nanoscale Stiff Films" Biomedical Engineering Society Annual Meeting. 亚特兰大, 美国 - 2012.11.

"Iron-Imide-Sulfide Clusters: Synthetic Approaches to the Nitrogenase Cofactor" International Conference on Biological Inorganic Chemistry. 温哥华,加拿大 - 2011.8.

媒体报道与采访

"导电聚合物的多功能仿生修饰:通过多巴胺调控聚吡咯的纳米结构和电学性能" Wiley Materials Views China 主页报道 - 2016.1. <http://www.materialsviewschina.com/2016/01/19285/>

"Zebra mussel inspires human body super glue" University of Waterloo Magazine. 滑铁卢大学主页报道 - 2015.6. <https://uwaterloo.ca/magazine/spring-2015/features/zebra-mussel-inspires-human-body-super-glue>

"First ReMAP Project Presented at the 2015 SMTA Pan-Pacific Symposium" Refined Manufacturing Acceleration Process. 加拿大工业部网页报道 - 2015.2. <http://remapnetwork.org/2015/02/02/first-remap-project-presented-at-the-2015-smta-pan-pacific-symposium/>

"Zebra Mussel-inspired Electrically Conductive Polymer Nanofiber" Biomedical Discussion Group Lecture. Youtube 邀请学术讲座 - 2015.1. <https://www.youtube.com/watch?v=CAC5S5h2DAc>

