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姓 名 田颖

职 称 教授

学术职衔 博士生导师

所学专业 环境工程；化学工程

研究方向 水处理技术及材料；电化学储能技术及材料

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学习工作经历

1987年9月~1991年7月：大连理工大学化学工程系，获工学学士学位

1991年9月~1994年7月：大连理工大学化学工程系，获工学硕士学位

2002年9月~2007年7月：大连理工大学环境工程系，获工学博士学位

2009年4月~2011年10月：中国科学院大连化学物理研究所化学工程专业博士后

1994年7月~至今：大连交通大学讲师、副教授、教授

承担项目情况

主持及参与国家863计划、国家自然科学基金、辽宁省等科研项目共20余项。

1. 大连交通大学博士启动基金：聚吡咯的电化学性质及对重金属还原特性研究 (No. 2008024)，2万，2007.11-2009.12，主持
2. 辽宁省教育厅项目：以导电聚吡咯复合材料进行电控离子交换膜的制备及性能研究 (No. 2008101)，2.0万元，2008.1-2009.12，主持
3. 辽宁省计划项目：铝合金表面功能化技术及产品 (No. 2008221012)，30万元，2009.1-2011.1，主持
4. 工业生态与环境工程教育部重点实验室项目：微生物燃料电池阴极中孔碳纤维载锰氧化物制备及氧还原机理研究，2.5万，2010.1-2012.12，主持

5. 国家自然科学基金项目：聚吡咯固体媒介电化学还原重金属的特性和机理 (No. 51078050), 37万元, 2011.01-2013.12, 主持
6. 国家自然科学基金项目, 氧化还原电对介质对双电层电容器高比能化的作用研究(21273025), 2013.01~2016.12, 80万元, 主持
7. 聚异丁烯绿色生产工艺(2017035), 辽宁省教育厅, 5万, 2018.1~2020.12, 主持
8. 三组分二氧化氯设备研制与设计, 大连益基生态科技有限公司, 15.5万, 2017.1-2018.12, 主持

发表论文著作情况

发表科研论文40余篇, 其中第一作者及通讯作者SCI收录论文20余篇。

1. Ying Tian, et al. Redox behavior and stability of polypyrrole in sulfuric acid. Synth. Met., 2006, 156: 1052-1056. (第一作者)
2. Ying Tian, et al. Reduction of Cu (II) by polypyrrole deposits on stainless steel mesh. J. Appl. Polym. Sci., 2007, 104: 629-633. (第一作者)
3. Ying Tian, et al. Reduction of hexavalent chromium by polypyrrole-modified steel mesh electrode. J. Clean. Product., 2007, 15: 1415-1418. (第一作者)
4. 田颖等. 不同电解质溶液对聚吡咯修饰膜性质的影响. 物理化学学报, 2008, 24: 693-699. (第一作者)
5. Ying Tian, et al. Comparison on electro-reduction of Cu(II) using polypyrrole and stainless steel electrodes. Sep. Purif. Technol., 2008, 63: 334-340. (第一作者)
6. Ying Tian, et al. Spontaneous and electrochemical reduction of silver by polypyrrole deposits. Sep. Sci. Technol., 2008, 43: 3891-3901. (第一作者)
7. 田颖等. 聚吡咯对Cu(II)的催化还原作用. 物理化学学报, 2009, 25: 2249- 2255. (第一作者)
8. Ying Tian, et al. Comparative investigation on electroreduction of Cu(II) using polypyrrole electrode and stainless steel electrode. J. Appl. Electrochem., 2010, 40: 427-433. (第一作者, 通讯作者)
9. 田颖等. 活性炭表面负载氧化锰复合电极的电化学电容性能. 物理化学学报, 2010, 26(8): 2151-2157. (第一作者)
10. 田颖等. 采用连续电位阶跃方法研究聚吡咯在电解质水溶液中的氧化还原稳定性. 物理化学学报, 2011, 27(5): 1116-1121. (第一作者, 通讯作者)
11. 田颖等. 电解质浓度和温度对活性炭电容性能的影响. 物理化学学报, 2011, 27(2): 479-485. (第一作者)
12. Ying Tian, et al. Capacitive properties of activated carbon in K₄Fe(CN)₆. J. Electrochem. Soc., 2011, 158 (7): A818-A821. (第一作者)
13. Ying Tian, et al. Electroreduction of hexavalent chromium using a polypyrrole-modified electrode under potentiostatic and potentiodynamic conditions, J. Hazard. Mater. 2012, 225-226: 15-20. (第一作者, 通讯作者)
14. 田颖等. 聚吡咯修饰膜开路还原Cr(VI)的动力学, 功能材料, 2012, 43: 303-304. (第一作者, 通讯作者)
15. Ying Tian, et al. A Facile Gas-Liquid Co-deposition Method to Prepare Nanostructured Nickel Hydroxide for Electrochemical Capacitors, J. Inorg. Organomet. Polym. Mater., 2013, 23: 1425-1430. (第一作者, 通讯作者)
16. Ying Tian, et al. Inhibition of Hydrogen Evolution Reaction on Polypyrrole-Modified Electrode in Acid Media, J. Electrochem. Soc., 2014, 161 (3): E23-E27. (第一作者, 通讯作者)
17. Ying Tian, et al. Effects of single electrodes of Ni(OH)₂ and activated carbon on electrochemical performance of Ni(OH)₂-activated carbon asymmetric supercapacitor, Mater. Chem. Phys., 2014, 143: 1164-1170. (第一作者)
18. Tian Ying, et al., Double layer capacitor based on active carbon and its improved capacitive properties using redox additive electrolyte of anthraquinonedisulphonate, Electrochim. Acta, 2015, 152: 135-139. (第一作者, 通讯作者)
19. Ying Tian, et al. An efficient supercapacitor of three-dimensional MnO₂ film prepared by chemical bath method, J. Alloys Comp., 2016, 671: 312-317. (第一作者, 通讯作者)

20. Ying Tian, et al. Cooperative redox-active additives of anthraquinone-2,7-disulphonate and $K_4Fe(CN)_6$ for enhanced performance of active carbon-based capacitors, *J. Power Sources*, 2016, 324: 334-341. (第一作者, 通讯作者)
21. Ying Tian, et al. Zero-Valent Aluminum as Reducer in Sodium Carbonate Solution for Degradation of Imidacloprid, *J. Chin. Chem. Soc.* 2017, 64, 55-60. (第二作者, 通讯作者)

专利情况

申请国家发明专利十余项, 获授权六项。

1. 田颖等. 一种聚吡咯复合电极在废水中回收重金属方面的应用. 中国, 发明专利, ZL201210260029.4. 2013. (第一发明人)
2. 田颖等. 便携式通用型二氧化氯发生器及其应用, 中国, 发明专利, ZL201310653528.4. (第一发明人)
3. 田颖等, 周晓慧, 张翼, 赵薇薇, 一种复合配方果蔬农药降残剂, 中国, 发明专利, ZL201410018378.4. (第一发明人)
4. 田颖等. 一种连续过滤式高压液固反应装置, 中国, 发明专利, ZL201510227290.8. (第一发明人)
5. 田颖等. 一种三氯化铝固载化催化剂沸腾床生产装置, 中国, 发明专利, ZL201510227304.6. (第一发明人)
6. 田颖等. 一种三组分固体原料二氧化氯发生器及其制备方法, 中国, 发明专利, ZL201510520868.9. (第一发明人)

教学情况

讲授课程化工原理、化工原理实践训练、电化学测试技术等课程, 主持及参加化工原理精品课建设、电化学测试技术标准课程建设、环境工程应用型人才培养方案的研究与实践、化工主干课程教学模式探索与实践、化学化工类专业基础课程体系建设的理论与实践等教学项目。

获奖情况

获辽宁省科技进步奖三等奖1项, 大连市科技进步奖二等奖1项, 辽宁省自然科学学术成果奖二等奖和三等奖各2项。



Name: Ying Tian

Academic Title: Associate Professor

Academic Rank: Doctoral Tutor

Speciality: Environmental Engineering & Chemical Engineering

Focus of Research: Water Treatment Techniques; Electrochemical Energy Storage Materials

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Education Experiences

- 2009.04 ~ 2011.09: Postdoctoral Researcher in Dalian Institute of Chemical Physics, Chinese Academy of Sciences.
- 2002.09 ~ 2007.07: D.S. in Department of Environmental Science and Technology, Dalian University of Technology.
- 1991.09 ~ 1994.07: M.S. in Chemical Engineering Department, Dalian University of Technology.
- 1987.09 ~ 1991.07: B.S. in Chemistry. Engineering Department, Dalian University of Technology.
- 2009.04 ~ 2011.10: Post Doctor in Chemical Physics, Chinese Academy of Sciences

Professional experiences

- 1994.09~2003.06: Lecturer, College of Environmental and Chemical Engineering, Dalian Jiaotong University
- 2003.06~2012.06.: Associate Prof., College of Environmental and Chemical Engineering, Dalian Jiaotong University
- 2012.06~present: Professor and Doctor Tutor

Scientific Research

1. Scientific Research Foundation of the Education Department of Liaoning Province (No. 2008101): Study on synthesis and property of polypyrrole composite in electro-controlled ion exchange, 2008.1-2009.12.
2. Plans Projects of Liaoning Province (No. 2008221012): Surface functioning technique and products of aluminum alloy, 2009.1-2011.1
3. Foundation of Doctorial Startup Program of Dalian Jiaotong University (No. 2008024), 2007.11-2009.12.
4. Important Lab Program of Industrial Ecology and Education Ministry: Preparation of mesoporous carbon fibres loaded with Manganese oxides used in cathode of microbial fuel cell and mechanics of oxygen reduction, 2010.1-2012.12.
5. National Natural Science Foundation of China (No. 51078050): Characteristic and Mechanism of Electro-reduction of Heavy metals by Solid Polypyrrole-Mediated Electrode, 2011.01-2013.12.
6. National Natural Science Foundation of China (No. 51078050): Study on the effect of redox couples media on the specific energy improvement for double-layer capacitor, 2013.01~2016.12.

Publications

1. Ying Tian, et al., Redox Behavior and Stability of Polypyrrole in Sulfuric Acid, Synthetic Metals 2006, 156: 1052-1056.
2. Ying Tian, et al. Reduction of Cu (II) by Polypyrrole Deposits on Stainless Steel Mesh, Journal of Applied Polymer Science 2007, 104: 629-633.
3. Ying Tian, et al. Reduction of Hexavalent Chromium by Polypyrrole-Modified Steel Mesh Electrode, Journal of Cleaner Production 2007, 15: 1415-1418.
4. Ying Tian, et al., Effects of Different Electrolyte Solutions on Characteristics of Polypyrrole-Modified Films, Acta Physico-Chimica Sinica. 2008, 24(4): 612-618.
5. Ying Tian, et al., Comparison on Electro-Reduction of Cu(II) Using Polypyrrole and Stainless Steel Electrodes, Separation and Purification Technology 2008, 63: 334-340.
6. Ying Tian, et al., Spontaneous and Electrochemical Reduction of Silver by Polypyrrole Deposits, Separation Science and Technology 2008, 43: 3891-3901.
7. Ying Tian, et al., Catalytic Reduction of Cu(II) by Polypyrrole, Acta Physico-Chimica Sinica 2009, 25: 2249-2255.
8. Ying Tian, et al., Electrochemical Capacitance of Composites with MnO_x Loaded on the Surface of Activated Carbon Electrodes, Acta Physico-Chimica Sinica 2010, 26 (8): 2151-2157.
9. Ying Tian, et al., Capacitive Properties of Activated Carbon in K₄Fe(CN)₆, Journal of the Electrochemical Society 2011, 158 (7): A818-A821

10. Ying. Tian, et al., Electroreduction of Hexavalent Chromium Using a Polypyrrole-Modified Electrode under Potentiostatic and Potentiodynamic Conditions, *Journal of Hazardous Materials* 2012, 225-226: 15-20.
11. Ying Tian, et al., A Facile Gas-Liquid Co-deposition Method to Prepare Nanostructured Nickel Hydroxide for Electrochemical Capacitors, *Journal of Inorganic and Organometallic Polymers and Materials* 2013, 23: 1425-1430.
12. Ying Tian, et al., Inhibition of Hydrogen Evolution Reaction on Polypyrrole-Modified Electrode in Acid Media, *Journal of the Electrochemical Society* 2014, 161 (3): E23-E27.

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