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姓 名 杨民

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学术职衔 博士生导师

所学专业 技术化学

研究方向 催化化学、无机材料合成与绿色化学

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学习工作经历

1984/09 - 1988/07, 山东大学, 化学系, 学士

1988/09 - 1991/07, 中国科学院大连化学物理研究所, 硕士

1991/07 - 2001/10, 大连铁道学院应用化学系 任讲师、副教授

2001/10 - 2006/02, 莱比锡大学, 化学与矿物学系, 博士

2001/10 - 2005/09, 莱比锡大学, 技术化学研究所, 科研助手

2005/10 - 2006/02, 莱比锡大学, 非经典化学研究所, 科研助手

2006/07 - 2009/06, 大连交通大学环境与化学工程学院 任副教授

2009/07至今 大连交通大学环境与化学工程学院 任教授

承担项目情况

- 1、甲烷二氧化碳重整制合成气分散Pt-CeO₂-ZrO₂/MgO催化剂的绿色制备及催化机理研究, 国家自然科学基金(20873013), 课题负责人
- 2、电场作用下离子交换树脂模板法制备纳米MgO, 教育部留学回国人员科研启动基金, 课题负责人
- 3、离子交换树脂模板法制备高纯超细氢氧化镁, 大连市科技计划项目(2006J22JH012), 课题负责人
- 4、场控释模板法合成高纯一维纳米氧化锌及循环稳定性研究, 国家自然科学基金(20771019), 主要参加者
- 5、新型高效一维复合发光材料的静电纺丝制备与发光性质, 国家自然科学基金(50802010), 参加者

发表论文著作情况

1. Cr/Na-ZSM-5的制备及表征, 大连交通大学学报, 2014, 35(6), 74-78
2. Physico-chemical Properties of Nano Cr/Na-ZSM-5 Catalysts for Ethane Dehydrogenation, Integrated Ferroelectric, 2014, 154(1), 57-63 (SCI收录)
3. Synthesis and Characterization of Nano ZrO₂ by Self-assembled Surfactant Template Method, Integrated Ferroelectric, 2013, 147(1), 34-40 (SCI收录)
4. Synthesis and characterization of nano cerium oxide by surfactant-assisted precipitation method, Applied Mechanics and Materials, 2013, 268-270, 180-183
5. Characterization of nano Ni/MgO-ZrO₂ catalysts, Advance Materials Research, 2013, 629, 396-400
6. Study on CH₄-CO₂ reforming to syngas over Pt-CeO₂-ZrO₂/MgO catalysts: Modification of support using ion exchange resin method, Journal of Natural Gas Chemistry, 2012, 21(1), 76-82 (SCI收录)
7. Preparation and Characterization of Nano Cr/H-ZSM-5 Catalysts for the Oxidative Dehydrogenation of Ethane, Applied Mechanics and Materials, 2012, 174-177, 672-675
8. Study on CH₄ Conversion over Ce-Zr Solid Solution Supported Nano Ni-Pt Bimetallic Catalysts: Preparation and Characterization of Catalysts, Material Science Forum, 2011, 694, 319-323 (EI收录)
9. Preparation and Characterization of Nano-scale Zinc Hydroxystannate, Advanced Materials Research, 2011, 320, 369-372 (EI收录)
10. Study on methane conversion to syngas over nano Pt-CeO₂-ZrO₂/MgO catalysts: Structure and catalytic behavior of catalysts prepared by using ion exchange resin method, Journal of Environmental Sciences, 2011, 23 (supplement), S53-S58 (EI收录)
11. 羟基锡酸锌包覆氢氧化镁, 大连交通大学学报, 2011, 32(1), 73-78
12. Study on CH₄ Conversion over Ce-Zr Solid Solution Supported Nano Pt-Ni Bimetal Catalysts: Preparation and Characterization of Ce-Zr Solid Solution, Advanced Materials Research, 2011, 150-151, 663-666 (EI收录)
13. Study on Methane Conversion to Synthesis Gas over Nano Pt/MgO Catalysts, Reaction Kinetics, Mechanisms and Catalysis, 2010, 101(1), 93-104 (SCI, EI收录)
14. 环境友好方法制备纳米氧化镁, 大连交通大学学报, 2010, 31(1), 85-89
15. Study on methane conversion to synthesis gas over nano Pt/MgO catalysts III. Influence of precursors on the physico-chemical properties of catalysts, Journal of Physics: Conference Series, 2009, 188, 012060
16. Study on methane conversion to synthesis gas over nano Pt/MgO Catalysts: I. Characterization of Pt-II Catalysts, Journal of Science Conference Proceedings, 2009, 1(2), 1-5
17. Preparation of Nanometer MgO by Ion Exchange Resin Method, Advanced Materials Research, 2009, 79-82: 509-512 (EI收录)
18. 甲烷二氧化碳催化重整制取合成气的研究进展, 广州化工, 2009, 37(5), 2-5
19. Study on methane conversion to synthesis gas over nano Pt/MgO catalysts II. Characterization of Pt-IV Catalysts, IEEE-- the iCBBE: Environmental Pollution and Public Health Track (EPPH 2009), IEEE Catalog Number: CFP0929C-CDR, ISBN 13: 978-1-4244-2902-8, Library of Congress No.: 2008935829 (EI收录)
20. 离子交换树脂法制备高纯超细氢氧化镁, 纳米科技, 2009, 6(1), 26-29
21. CO₂ Reforming of Methane to Syngas over Highly Active and Stable Pt/MgO Catalyst. Catalysis Today, 2006 (115), 199-204 (SCI收录)

22. Characterization and Catalytic Behavior of Nano Pt/MgO Catalysts. Chinese Journal of Chemical Physics, 2007, 26(6): 690-696 (SCI、ISTP收录)
23. 高稳定性Pt/MgO催化剂上甲烷部分氧化制备合成气. 催化学报, 2008, 29 (3), 228-232 (SCI收录)
24. Preparation of Nanometer Mg(OH)₂ by Using Ion Exchange Resin as Template. ChinaNANO 2007, International Conference on Nanoscience and Technology, China 2007, 2007, Beijing, China
25. Study on methane conversion to synthesis gas over nano Pt/MgO Catalysts: I. Characterization of Pt-II Catalysts, The 7th China International Conference on NanoScience and Technology, 2008, Wuhan, China
26. Characterization and Catalytic Behavior of Nano Pt/MgO Catalysts. The 6th China International Conference on NanoScience and Technology, 2007, Chengdu, China
27. Characterization and Photocatalysis of Nanometer Zinc Oxide Prepared by Ion-exchange Resin Method. The 6th China International Conference on NanoScience and Technology, 2007, Chengdu, China
28. Partial Oxidation of Methane to Syngas over Stable Pt/MgO Catalyst, 13th International Congress on Catalysis, 2004, Paris, France
29. CO₂ Reforming of Methane to Syngas over Highly Active and Stable Pt/MgO Catalyst: 8th International Conference on Carbon Dioxide Utilization, 2005, Oslo, Norway

教学情况

1. 讲授本科生课程: 有机化学, 油品化学, 大学化学B, 无机化学C, 有机材料合成化学, 涂装技术, 绿色化学
2. 讲授研究生课程: 材料热力学, 绿色材料设计与工艺

获奖情况

1. 2012年7月被评为“辽宁省高等学校优秀班主任(导师)”
2. 研究生郭海军的毕业论文“高分散Pt基催化剂的制备及催化性能研究”被评为“2010年辽宁省优秀硕士学位论文”
3. 大连市科技进步二等奖



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 Position Professor
 Specialty Technical Chemistry

Research Field Catalysis, Synthesis of Inorganic Materials & Green Chemistry

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Career

July 1991 – October 2001, Assistant Professor & Associate Professor, Department of Applied Chemistry, Dalian Railway Institute

October 2001 - February 2006, Research Assistant, Department of Chemistry and Mineralogy, Leipzig University

July 2006 – present, Associate Professor, College of Environmental and Chemical Engineering, Dalian Jiaotong University

Education

1984-1988, B.S., Shandong University

1988-1991, M.S., Dalian Institute of Chemical Physics, Chinese Academy of Sciences

2001-2006, Leipzig University, research towards a Ph.D., Leipzig, Germany

Research Projects

- 1、 Study on the Green Preparation of High Dispersed Pt-CeO₂-ZrO₂/MgO Catalysts for CO₂ Reforming of CH₄ to Synthesis Gas and The Catalytic Mechanism, National Science Foundation of China (20873013)
- 2、 Preparation of High Purity and Ultra Fine Mg(OH)₂ by Using Ion-Exchange Resin as Template, Science and Technology Project of Dalian (2006J22JH012) ,

Publications

1. Study on CH₄-CO₂ reforming to syngas over Pt-CeO₂-ZrO₂/MgO catalysts: Modification of support using ion exchange resin method, Journal of Natural Gas Chemistry, accepted (SCI收录)
2. Study on CH₄ Conversion over Ce-Zr Solid Solution Supported Nano Ni-Pt Bimetallic Catalysts: Preparation and Characterization of Catalysts, Material Science Forum, 2011, 694, 319-323 (EI收录)
3. Preparation and Characterization of Nano-scale Zinc Hydroxystannate, Advanced Materials Research, 2011, 320, 369-372 (EI收录)
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5. Surface coating of Mg(OH)₂ by ZnSn(OH)₆, Journal of Dalian Jiaotong University, 2011, 32(1), 73-78
6. Study on CH₄ Conversion over Ce-Zr Solid Solution Supported Nano Pt-Ni Bimetal Catalysts: Preparation and Characterization of Ce-Zr Solid Solution, Advanced Materials Research, 2011, 150-151, 663-666
7. Study on Methane Conversion to Synthesis Gas over Nano Pt/MgO Catalysts, Reaction Kinetics, Mechanisms and Catalysis, 2010, 101(1), 93-104 (SCI、EI收录)
8. Environmental Benign Preparation of Nanometer MgO, Journal of Dalian Jiaotong University, 2010, 31(1), 85-89
9. Study on methane conversion to synthesis gas over nano Pt/MgO catalysts III. Influence of precursors on the physico-chemical properties of catalysts, Journal of Physics: Conference Series, 2009, 188, 012060
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12. Progress in Methane Catalytic Reforming with Carbon Dioxide to Synthesis Gas, Guanzhou Chemical Engineering, 2009, 37 (5), 2-5
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14. Preparation of High Purity and Ultrafine Magnesium Hydroxide by Ion Exchange Resin Method, Nanoscience & Nanotechnology, 2009, 6 (1), 26-29
15. CO₂ Reforming of Methane to Syngas over Highly Active and Stable Pt/MgO Catalyst. Catalysis Today, 2006 (115), 199-204 (SCI收录)
16. Characterization and Catalytic Behavior of Nano Pt/MgO Catalysts. Chinese Journal of Chemical Physics, 2007, 26(6): 690-696 (SCI, ISTD收录)
17. Partial Oxidation of Methane to Synthesis Gas over Pt/MgO Catalyst. Chinese Journal of Catalysis, 2008, 29 (3), 228-232 (SCI收录)
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19. Study on methane conversion to synthesis gas over nano Pt/MgO Catalysts: I. Characterization of Pt-II Catalysts, The 7th China International Conference on NanoScience and Technology, 2008, Wuhan, China
20. Characterization and Catalytic Behavior of Nano Pt/MgO Catalysts. The 6th China International Conference on NanoScience and Technology, 2007, Chengdu, China
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22. Partial Oxidation of Methane to Syngas over Stable Pt/MgO Catalyst, 13th International Congress on Catalysis, 2004, Paris, France
23. CO₂ Reforming of Methane to Syngas over Highly Active and Stable Pt/MgO Catalyst; 8th International Conference on Carbon Dioxide Utilization, 2005, Oslo, Norway

Award

The Second Prize of Advanced in Science and Technology, Dalian

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