



学院概况 师资队伍 本科生教育 研究生培养 学科建设 科学研究 国际交流 党建工作 廉政建设 学生工作 院务公开



您所在的位置： [首页](#) > [研究生培养](#) > [导师介绍](#) > [硕士生导师介绍](#) > [冶金物理化学/化学工艺/冶金工程](#)

陈刚

更新时间：2019-01-19 10:38:22 阅读次数：288 次

作者：

姓名	陈刚	性别	男			
出生年月	1981/7	政治面貌	群众			
职称	副教授	职务				
办公电话	024-83687731					
电子邮箱	chengang@smm.neu.edu.cn					
学习工作经历：						
2013.12-现在 副教授 东北大学						
2011.11-2013.12 特别研究员 日本产业技术综合研究所 燃料电池材料组						
2012.11-2012.12 访问学者 美国西佛吉尼亚大学						
2008.10-2011.10 博士 日本国立弘前大学 北日本新能源研究所 (CSC公派)						

研究生培养

培养过程管理	2005.9-2008.7 硕士 大连理工大学 化工过程机械专业
	2000.9-2004.7 本科 长安大学 无机非金属材料专业
	主要研究方向: 1.固体氧化物燃料电池制备, 性能测试, 性能衰减机理研究, 2.以碳氢燃料和煤化气气体为燃料的电极和电解质材料开发, 3半导体离子型燃料电池
	近年讲授课程: 现代电化学, 电化学原理与技术, 冶金与材料制备电化学
	所在团队情况: 冶金物理化学研究所
	人才培养情况: 培养硕士研究生8人(已毕业3人)
	科研项目情况:
招生信息	1. SrTiO ₃ 基半导体离子型燃料电池制备及电化学性能研究, 东北大学基本科研业务费, 2018.1-2019.12, 项目负责人
培养方案	2. A位缺陷对固体氧化物燃料电池阴极材料(La,Sr) _x MnO ₃ 和锆基电解质界面间高温化学稳定性影响机理研究, 辽宁省科学技术基金, 2015.7-2017.6, 项目负责人
专业介绍	3. 高性能固体氧化物燃料电池钙钛矿陶瓷阳极材料制备及性能研究, 东北大学基本科研业务费, 2015.1-2016.12, 项目负责人
导师介绍	4. A位缺陷及B位掺杂对La掺杂的SrTiO ₃ 固体氧化物燃料电池阳极材料性能的影响机理, 国家自然科学基金青年基金, 2014.1-2016.12, 项目负责人
硕士生导师介绍	5. 低温运行阴极支撑固体氧化物燃料电池开发, JSPS Grant-in-Aid for scientific Research, 2010-2011, 项目参与者
博士生导师介绍	6. 以清洁煤气化气体为燃料的新型固体氧化物燃料电池阳极材料开发, 日本产业技术综合研究所和美国国家能源技术实验室合作项目 (Japan-U.S. Collaboration on Clean Energy Technology), 2011.11-2013.12, 项目参与者
硕士、博士导师简况表	论文著作情况:
制度文件	1. Gang Chen, Bin Zhu*, Hui Deng, Yadan Luo, Wenkang Sun, Hailiang Liu, Wei Zhang, Xunying Wang, Yumin Qian, Xianwei Hu, Shujiang Geng, Jung-Sik Kim, Advanced Fuel Cell based on Perovskite La-SrTiO ₃ Semiconductor as the Electrolyte with Super Oxide-ion Conduction, <i>ACS Applied Materials &</i>
研究生精品课	
材料与冶金学报	
诚聘英才	
下载专区	

Interfaces, Accept.

2. **Gang Chen***, Yadan Luo, Wenkang Sun, Hailiang Liu, Yushi Ding, Ying Li, Shujiang Geng, Kai Yu, Guoqiang Liu, Electrochemical performance of a new structured low temperature SOFC with BZY electrolyte, *International Journal of Hydrogen Energy*, 43 (2018) 12765-12772.
3. **Gang Chen***, Wenkang Sun, Yadan Luo, Hailiang Liu, Shujiang Geng, Kai Yu, Guoqiang Liu, Investigation of layered $\text{Ni}_{0.8}\text{Co}_{0.15}\text{Al}_{0.05}\text{LiO}_2$ in electrode for low-temperature solid oxide fuel cells, *International Journal of Hydrogen Energy*, 43 (2018) 417-425.
4. **Gang Chen***, Yu Gao, Yifei Luo, Ruifeng Guo, Effect of A site deficiency of LSM cathode on the electrochemical performance of SOFCs with stabilized zirconia electrolyte, *Ceramics International*, 43 (2017) 1304-1309.
5. **Gang Chen***, Yumin Qian*, Man Liu, Wanqing Ma, ShuJiang Geng, Xiangying Meng, Kai Yu, Guoqiang Liu, Investigation of chemical compatibility between B-site doped La substituted SrTiO_3 anode and stabilized zirconia electrolyte, *Journal of Power Sources*, 328 (2016) 212-218.
6. **Gang Chen***, Yifei Luo, Yu Gao, Ruifeng Guo, Wanqing Ma, Man Liu, Shujiang Geng*, Chemical Compatibility of A-site Deficient La Substituted SrTiO_3 Anode and Stabilized Zirconia Electrolyte, *ECS Transactions* 68(1) (2015) 1465-1471.
7. **Gang Chen***, Haruo Kishimoto, Katsuhiko Yamaji, Koji Kuramoto, Mingyang Gong, XingBo Liu, Gregory Hackett, Kirk Gerdes, Teruhisa Horita, Chemical Reaction Mechanism between A-Site Deficient La Substituted SrTiO_3 and PH_3 in Coal Syngas, *Journal of the Electrochemical Society* 162(12) (2015) F1342-F1346.
8. **Gang Chen***, Haruo Kishimoto, Katsuhiko Yamaji, Koji Kuramoto, Teruhisa

- Horita, Effect of Interaction between A-Site Deficient LST and ScSZ on Electrochemical Performance of SOFC, *Journal of The Electrochemical Society*, 162 (3) (2015) F223-F228.
9. **Gang Chen***, Haruo Kishimoto, Katsuhiko Yamaji, Koji Kuramoto, Mingyang Gong, XingBo Liu, Gregory Hackett, Kirk Gerdes, Teruhisa Horita, Chemical reaction mechanisms between Y_2O_3 stabilized ZrO_2 and Gd doped CeO_2 with PH_3 in coal syngas, *Journal of Power Sources* 268 (2014) 904-910.
10. **Gang Chen***, Haruo Kishimoto, Katsuhiko Yamaji, Koji Kuramoto, Teruhisa Horita, Interfacial reaction mechanism of LST anode and ScSZ electrolyte, *Journal of Power Sources* 246 (2014) 49-54.
11. **Gang Chen***, Haruo Kishimoto, Katsuhiko Yamaji, Koji Kuramoto, Mingyang Gong, XingBo Liu, Gregory Hackett, Kirk Gerdes, Teruhisa Horita, Effect of PH_3 on Stability of LST Ceramic Anode in Coal Syngas, *ECS transaction* 57 (2013) 1577–1583.
12. **Gang Chen***, Haruo Kishimoto, Katsuhiko Yamaji, Koji Kuramoto, Teruhisa Horita, Electrical performance of La-substituted $SrTiO_3$ anode materials with different deficiency in A-site, *ECS transaction* 50 (2013) 63-71.
13. Guoqing Guan*, **Gang Chen**, Y. Kasai, E.W.C. Lim, X. Hao, A.Abuliti, C.Fushimi, A.Tsutsumi, Catalytic steam reforming of biomass tar over iron- or nickel-based catalyst supported on calcined scallop shell, *Applied Catalysis B: Environmental* 115-116 (2012) 159-168.
14. **Gang Chen***, Guoqing Guan, Yutaka Kasai, Abuliti Abudula*, Nickel vaporization phenomenon on the Ni-CGO anode in a cathode supported SOFC operated at low concentrations of H_2 , *International Journal of Hydrogen Energy* 37 (2012) 477-483.
15. **Gang Chen***, Guoqing Guan, Yutaka Kasai, Hong-Xin You, Abuliti Abudula*, Performance of cathode-supported SOFC with $Ni_{0.5}Cu_{0.5}$ -CGO anode

- operated in humidified hydrogen and in low concentration dry methane,
Journal of Solid State Electrochemistry 16 (2012) 2071-2077.
16. **Gang Chen***, Guoqing Guan, Shawket Abliz, Yutaka Kasai, Abuliti Abudula*, Rapid degradation phenomenon of NiCu-CGO anode at high p(H₂O) in different concentrations of dry methane, *Electrochimica Acta* 56 (2011) 9868-9874.
17. **Gang Chen***, Guoqing Guan, Shawket Abliz, Yutaka Kasai, Abuliti Abudula*, Rapid degradation mechanism of Ni-CGO anode in low concentration of H₂ at high current density, *International Journal of Hydrogen Energy* 36 (2011) 8461-8467.
18. **Gang Chen***, Guoqing Guan, Yutaka Kasai, Hong-Xin You, Abuliti Abudula*, Degradation mechanism of Ni-based anode in low concentration of dry methane, *Journal of Power Sources* 196 (2011) 6022-6028.
19. **Gang Chen***, Hong-Xin You, Yutaka Kasai, Abuliti Abudula*, Characterization of planer cathode-supported SOFC prepared by a dual dry pressing method, *Journal of Alloys and Compounds* 509 (2011) 5159-5162.
20. **Gang Chen**, Hong-Xin. You*, Abuliti Abudula, Fabrication and evaluation of a ScSZ/CGO composite electrolyte by a dual dry pressing method, *Journal of Energy and Power Engineering* 2 (2008) 27-32.
21. Hong-Xin You*, Hongjie Gao, **Gang Chen**, Abuliti Abudula, Xingwei Ding, The conversion among reactions at Ni-based anodes in solid oxide fuel cells with low concentrations of dry methane, *Journal of Power Sources* 196 (2011) 2779-2784.
22. P.D. Lund*, B Zhu, Y Li, S Yun, A.G. Nasibulin, R. Raza, M. Leskelä, M. Ni, Y. Wu, **Gang Chen**, L. Fan, J.S. Kim, S.a Basu, T. Kallio, I. Pamuk, *ACS Energy Letters* 2 (2017) 2752–2755.
23. Han Yu, Guoqiang Liu*, Guocheng Li, Jingyi Zhang, **Gang Chen**, Lei Wen,

Electrochimica Acta 263 (2018) 474-479.

24. Shujiang Geng*, Qingqing Zhao, Yaohua Li, Jianjia Mu, **Gang Chen**, Fuhui Wang, Shenglong Zhu, *International Journal of Hydrogen Energy* 42 (2017) 10298-10307.
25. Qingqing Zhao, Shujiang Geng*, **Gang Chen**, Fuhui Wang, *Journal of Alloys and Compounds* 769 (2018) 120-129.
26. Yandong Li, Shujiang Geng*, **Gang Chen**, *International Journal of Hydrogen Energy* 43 (2018) 12811-12816.

获奖情况: 辽宁省自然科学学术成果奖一等奖(2017)

社会兼职: 中国能源研究会燃料电池专业委员会委员

个人寄语: 自强不息，知行合一

东大主站 | 教务管理系统 | 研究生管理信息系统 | 科研管理系统 | 人力资源管理系统 | 财务管理系统 | 资产管理系统 | 学院邮箱 |



地址: 辽宁省沈阳市和平区文化路三号巷11号 | 邮编: 110819
电话: 024-83687750 传真: 024-23906316

