

Curriculum Vitae

Education background:

2002.7~2006.12, PhD in metallurgy, Shanghai University, P.R. China;
1998.9~2002.7, Bachelor in materials processing, Northeastern University, P.R. China;

Working experience:

2006.12~2008.12, Post-Doctor., Ningbo Institute of Materials Technology and Engineering (NIMTE), Chinese Academic Science (CAS)

2009.1 ~present, Associate Professor, Project Professor, NIMTE, CAS.

Research interesting:

Ceramic fuel cells(Solid oxide fuel cells) and high temperature batteries.

Awards:

2004~2005, Excellent Student of Shanghai University

2005-2006, Outstanding Student Award of Baosteel education foundation

2010~2014, Member of Youth Innovation Promotion Association, CAS

2011, Outstanding postdoctoral of Ningbo city

2012, The best technology award of NIMTE, CAS

Publications

[1] F. Wang, F.X. Miao, **W.B. Guan***, In suit Investigation of Anode Support on Cell Performance Reduced under Various Temperatures for Planar Solid Oxide Fuel Cells, *Fuel Cells*, Article first published online : 16 MAR 2015, DOI: 10.1002/fuce.201400155.

[2] Wei Wu, **Wanbing Guan***, Wei Guo Wang, Contribution of properties of composite cathode and cathode/electrolyte interface to cell performance in a planar solid oxide fuel cell

stack, *Journal of Power Sources*, 279: 540-548, **2015**.

[3] Wei Wu, **Wanbing Guan***, Guoliang Wang, Wei Guo Wang*, In-suit investigation of quantitative contribution of the anode, cathode and electrolyte on the cell performance inside stack in anode-supported planar SOFCs, *Advanced Energy Materials*, 4(10):1400120(8), **2014**.

[4] Le Jin, **Wanbing Guan***, Xiao Ma, Huijuan Zhai, Wei Guo Wang*, Quantitative contribution of resistance sources of components to stack performance for planar solid oxide fuel cells, *Journal of Power Sources*, 253: 305-314, **2014**.

[5] **Wanbing Guan**, Le Jin, Wei Wu, Yifeng Zheng, Guoliang Wang, Wei Guo Wang*, Effect and mechanism of Cr deposition in cathode current collecting layer on cell performance inside stack for planar solid oxide fuel cells, *Journal of Power Sources*, 245:119-128, **2014**.

[6] Le Jin, **Wanbing Guan***, Jinqi Niu, Xiao Ma, Wei Guo Wang*, Effect of contact area and depth between cell cathode and interconnect on stack performance for planar solid oxide fuel cells, *Journal of Power Sources*, 240:796-805, **2013**.

[7] Wei Wu, **Wanbing Guan***, Guoliang Wang, Wu Liu, Qingsheng Zhang, Tao Chen, Wei Guo Wang*, Evaluation of $\text{Ni}_{80}\text{Cr}_{20} / (\text{La}_{0.75}\text{Sr}_{0.25})_{0.95}\text{MnO}_3$ dual layer coating on SUS 430 stainless steel used as metallic interconnect for solid oxide fuel cells, *International Journal of Hydrogen Energy*, 39(2):996-1004, **2014**.

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[9] **Wanbing Guan***, Wei Guo Wang, Electrochemical Performance of Planar Solid Oxide Fuel Cell (SOFC) Stacks: From Repeat Unit to Module, *Energy Technology*, 2(8): 692-697, **2014**.

[10] Guoliang Wang, Wei Wu, **Wanbing Guan***, Le Jin, Wei Guo Wang*, Effect of conductivity and adhesive properties of cathode current-collecting layer on cell performance inside stack for planar solid oxide fuel cells, *Ceramics International*, 40: 11023-11030, **2014**.

[11] Wei Wu, **Wanbing Guan***, Guoliang Wang, Yifeng Zheng, Wei Guo Wang*, Effect of Contact Method between Interconnects and Electrodes on Area Specific Resistance in Planar Solid Oxide Fuel Cell Stacks, *Fuel Cells*, 13(5):743-750, **2013**.

[12] **W.B. Guan**, L. Jin, X. Ma, W.G. Wang*, Investigation of Impactors on Cell Degradation Inside Planar SOFC Stacks, *Fuel Cells*, 12(6):1085-1094, **2012**.

- [13] **W.B. Guan**, H.J. Zhai, L. Jin, C. Xu, W.G. Wang*, Temperature Measurement and Distribution Inside Planar SOFC Stacks, *Fuel Cells*, 12(1): 24-31, **2012**.
- [14] **W.B. Guan**, H.J. Zhai, L. Jin, T.S. Li, W.G. Wang*, Effect of Contact between Electrode and Interconnect on Performance of SOFC Stacks, *Fuel Cells*, 1(3): 445-450, **2011**.
- [15] **Wanbing Guan**, Yulai Gao, Qijie Zhai, Kuangdi Xu. Undercooling of Droplet Solidification for Molten Pure Aluminum, *Materials Letters*, 59(13):1701-1704, **2005**.
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- [18] Qingshan Li, Yifeng Zheng, **Wanbing Guan**, Le Jin, Cheng Xu*, Wei Guo Wang*, Achieving High-Efficiency Hydrogen Production Using Planar Solid-Oxide Electrolysis Stacks, *International Journal of Hydrogen Energy*, 39(21):10833-10842, **2014**.
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- [21] Q.J. Zhai, Y.L. Gao, **W.B. Guan** and K.D. Xu. Role of size and cooling rate in quenched droplet of Sn-Bi eutectic alloy, *Materials Science and Engineering A*, 441: 277-281, **2006**.
- [22] GAO Yulai, **GUAN Wanbing**, ZHAI Qijie & XU Kuangdi, Study on undercooling of metal droplet in rapid solidification, *Science in China, Series E Engineering and Materials Science*, 48(6):632-637, **2005**.
- [23] **Wanbing Guan***, Le Jin, Huijuan Zhai, Tao chen, Yifeng Zheng, Wei Guo Wang, Electrochemical performance of stack from repeat unit to module for anode-supported planar SOFCs, Oral presentation, The fifth World Hydrogen Technologies Convention, Shanghai, 25th-28th September, **2013**.
- [24] Le Jin*, **Wan Bing Guan**, Xiao Ma, Cheng Xu and Wei Guo Wang, Achieving Hydrogen Production through Solid Oxide Electrolyzer Stack by High Temperature

Electrolysis, *ECS Trans.* 41(33): 103-111, **2012**.

[25] **Wanbing Guan***, Huijuan Zhai, Fanghu Li, Zhi Li, Cheng Xu, Wei Guo Wang, Development and performance of planar SOFC Stacks, poster, *ECS Transactions*, 25(2): 485-488, **2009**.

[26] **Wan-Bing Guan***, Wei-Guo Wang, et al. Aspects in cell testing of anode supported planar SOFC, 8th European Fuel Cell Forum, oral presentation, July 3, **2008**.

[27] **Guan Wanbing**, Gao Yulai, Zhai Qijie, Suresh Chand, Andersson, Johan Liu. Characterization of nano-sized particles of lead-free solder alloys, 1# electronics systemintegration technology conference, proceeding, Sep., 7-12, **2006**.