Prof. Li-Xian SUN's CV

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Date of Birth: 09/10/1962

CURRICULUM VITAE

Contact details

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Professor Dr. of Chemistry
Dean of School of Materials Science and Engineering, Guilin University of Electronic Technology (GUET);
Director of Key Laboratory of Information Materials, Guangxi Province, China
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Membership
*Fellow of Royal Society of Chemistry (**FRSC**)*
Counsellor of *International Association of Chemical Thermodynamics (IACT)*

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Editorial Board member
Regional editor of *Journal of Thermal Analysis & Calorimetry*
Editorial board of *International Journal of Electrochemical Science*
Editorial board of The Journal of Chemical Thermodynamics

Education

1994, Ph.D., Hunan University;
1987, Master Degree, Hunan University;
1984, ***Dip Edu,*** Hunan University

Employment History

2 /1995, Guest researcher (**STA** fellowship), National Institute of Advanced Industrial Science and Technology (**AIST**), Japan;

5/1995, Postdoc. (Alexander von **Humboldt** fellowship), Jena University, Germany;

1996-2001, Guest Prof.(**AIST/ITIT, NEDO**, fellowship) at AIST;

9/2001-2012, Prof. and Group Leader of Materials & Thermochemistry Laboratory, Dalian Institute of Chemical Physics(DICP), Dalian National Laboratory (DNL) for Clean Energy, Chinese Academy of Sciences (CAS), Dalian, Liaoning Prov., China; **Director** of Key Laboratory of Energy Materials & Thermochemistry, Liaoning Province. **100 Talent Program** of Chinese Academy of Sciences;

2012 – present, **Dean** of School of Materials Science and Engineering, Guilin University of Electronic Technology (GUET); **Director** of Key Laboratory of Information Materials, Guangxi Province, China; Group Leader of New Energy Science & Technology; Guangxi Bagui Scholar.

Research interests:
1. Thermochemistry study for design and preparation of new materials such as phase change materials, high energetic materials, nano materials, functional materials, catalysts, etc.;
2. Development of new energy including hydrogen storage/production material, Ni-H battery/Li-ion battery, Supercapacitor, fuel cells such as biofuel cells, proton exchange membrane fuel cells, direct methanol fuel cells, phase change materials, clean combustion of coal, etc.;
3. Bio/chemical sensors based on quartz crystal microbalance, slab optical waveguide and electrochemistry for hydrogen, glucose, etc.;
4. Bio-microcalorimetry for drug design, and Chemometrics algorithms (ANNs, QSAR) and applications in Bioinfomatics and material science.

Selected Publications

2016

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[339] Ziqiang Wang, Lixian Sun, Fen Xu, Huaiying Zhou, Xiaojun Peng, Dalin Sun, Jianchuan Wang, Yong Du. Nitrogen-doped porous carbons with high performance for hydrogen storage. Int. J. Hydrogen Energy, 2016, 41(20): 8489-8497.

[338] Erhu Yan, Lixian Sun, Fen Xu, Daming Xu, Shujun Qiu, Cuili Xiang, Huanzhi Zhang, Yixin Sun. Changes in microstructure, solidification path and hydrogen permeability of Nb-Hf-Co alloy by adjusting Hf/Co ratio. Int. J. Hydrogen Energy, 2016, 41: 1391-1400.

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[336] Liqiang Huang, Lie Chen, Pengru Huang, Feiyan Wu, Licheng Tan, Shuqin Xiao, Wei Zhong, Lixian Sun, Yiwang Chen. Triple Dipole Effect from Self-Assembled Small-Molecules for High Performance Organic Photovoltaics.Adv. Mater., 2016, 28(24): 4852-4860.

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Chengying Tang. High-performance supercapacitor based on V2O5/carbon nanotubes-super activated carbon ternary composite. Ceramics International, 2016, 42: 12129-12135.
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Books Chapters

1. Li-Xian SUN , Chapter 10, Challenging Scientific Problems and Opportunities in Energy Materials and Thermochemistry, in Frontier and Prospect of Physicial Chemistry Subject (Ed. By Jun-Lin Yang , Fei-Xue Gao and Zhong-Qun Tian, Chinese Science Publisher, 2011).

2. Li-Xian SUN, Xingguo Li and Fen Xu , Chapter 6, Metal Organic Frameworks and

Covalent Organic Frameworks Material, in Introduction to the Advanced Hydrogen Storage Materials (Ed. By Min Zhu and Dalin Sun, Chinese Science Publisher, 2014, in press).

3. Li-Xian SUN and Fen Xu，Chapter 3, Thermal Analysis Methods (Ed. By Qin Xin and Mengfei Luo, Chinese Science Publisher, 2004).

4. Ruqin Yu, Li-Xian SUN, Yi- Zeng Liang, Chapter 7, Classification of Materials, in Adaption of Simulated Annealing to Chemical Optimization Problems, Ed. By L.H. Kalivas, Elsevier Science, 1995.

Selected Patents

1. **Li-Xian SUN**, Ju-Lan Zeng, Fen Xu, Jun-Ning Zhao, Preparation method of a kind of phase change materials, ZL101343529, Jan. 14, 2009.
2. **Li-Xian SUN**, Shuang Liu, Jian Zhang, Zhi-Bao Li, Zi-Qiang Wang and Xia Jiang, Preparation method on a OH-functionalized graphene materials, CN201310425628.1, Sept. 17, 2013.
3. **Li-Xian SUN**, Xia Jiang, Jian Zhang, Zi-Qiang Wang, Shuang Liu and Zhi-Bao Li, Materials doped metal organic frameworks and their applications, CN201310425480.1, Sept. 17, 2013.
4. **Li-Xian SUN**, Yong-Jin Zou, Li-Ni Yang and Fen Xu, One Microbial Fuel Cells and Preparation, ZL101150200, March 26, 2008.
5. **Li-Xian SUN**, Yong-Jin Zou, Cui-Li Xiang and Fen Xu, One Microbalance based H2 sensor and application, and Preparation,ZL101290310, Oct. 22, 2008

Awards

- Guangxi Excellent Expert, 2013
- Li-Xian Sun, et al., Structure and Electrochemical Properties on New (La，Mg)-Ni Hydrogen Storage Alloys, Natural Science Award (Silver Medal), Guangxi, 2012
- Li-Xian Sun, et al., Catalytic Preparation of Hydrogen Based on Light Al Alloys, Natural Science Award (Copper Medal), Liaoning, 2012
- Guangxi Bagui Scholar, 2011
- Dalian Excellent Expert, 2010
- Studies on New Al-$SnCl_2$ Composites for H2 generation, Excellent Paper by the Committee of 11^{th} National H2 conference, China, 2010
- Liaoning Provincial Baiqianwan Talents Program, 2007
- New Phase Change Materials, Science and Technology Awards by CAS (2004)
- Japan NEDO Fellowship, 1997

• Alexander von Hunboldt Fellowship, Germany, 1995
• Plurality professor by Wuhan University, Southern China University, Dalian University of Technology, Jinan University, etc..

SCHOLARSHIP

• Invited Plenary, Keynote, Oral Presentations

1. **Li-Xian SUN,** *Nanomaterials for Hydrogen/Thermal Storage*, IUMRS-ICA 2014 **(http://www1.iumrs-ica2014.org/program/programList_oral.php?id=A-1)**, Aug. 26, 2014, Fukuoka, Japan, **Invited Talk**
2. **Li-Xian SUN,** *Thermodynamic Study on Micro/Nano Materials for Energy Storage*, ISST2014, Sep. 27, 2014, Osaka. Japan, **Invited Talk**
3. **Li-Xian SUN,** *Study on New Energy Storage Materials by Thermodynamics and Catalysis*, 50th memorial Conference on The Japan Society of Calorimetry and Thermal Analysis (JSCTA), Sep. 30, 2014, Osaka, Japan, **Keynote**
4. Li-Xian SUN, *Nano Materials for Hydrogen Storage and Thermal Energy Harvest*, ICCT-AIChE 2014, July 27, 2014, Durban, **South Africa, Oral**
5. Li-Xian SUN, *Coupling of Hydrogen Energy and Thermal Energy and Studies Related New Materials***,** CTTA17-2014, Oct. 17, 2014, Hangzhou, China, **Invited Plenary**
6. Li-Xian SUN, *Nano Structured Advanced Materials for H2 or Thermal Storage*, CTTA17-2014, Oct. 20, 2014, Hangzhou, China, **Invited Talk**
7. Li-Xian SUN, *HYDROGEN STORAGE/PHASE CHANGE MATERIALS AND THEIR THERMODYNAMIC STUDY*, RCCT2013, June 24, 2013, Moscow, **Invited Plenary.**
8. **Li-Xian SUN,** *NOVEL HYDROGEN STORAGE/PHASE CHANGE MATERIALS AND THEIR THERMODYNAMIC/KINETIC STUDY*, RTAC2013, Sept. 23, 2013, Saint Petersburg, **Invited Talk.**
9. **Li-Xian SUN,** Materials for H_2 Storage and Thermal Energy Harvest, NATAS2013, Aug. 4, 2013, Kentucky, USA, **Invited Talk.**
10. **Li-Xian SUN**, Thermodynamic & Kinetic Study on Hydrogen Storage, CTTA17-2013, May 17, 2013, Shijiazhuang, China, **Invited Plenary**
11. **Li-Xian SUN,** New Materials for Energy Storage, Bio/fuel Cells and Bio/chemical Sensors, Symposium on Nano-Materials and Device, June 19, 2013, Guilin, China, **Invited Talk**
12**. Li-Xian SUN,** New H_2 Energy and Phase Change Materials, The 8^{th} Chinese Functional Materials, Harbin, China, Aug. 25, 2013, **Invited Talk**
13. **Li-Xian SUN,** New Hydrogen Storage/Phase Change Materials and Their Thermochemistry Studies, ICTAC15, Aug. 2012, Osaka, Japan, **Invited Plenary.**
14. **Li-Xian SUN**, Studies on Novel Hydrogen Storage and Phase Change Materials IUMRS-ICEM 2012, Sept. 23, 2012, Yokohama, Japan, **Invited Talk**
15. **Li-Xian SUN**, Nanocongfinement of New Hydrogen Storage Materials and Their Thermodynamic Studies, The 3^{rd} Conference on Chinese Thermodynamic & Kinetics, Nanjing, China, Oct. 11, 2011, **Invited Talk**
16. Li-Xian SUN, Preparation and Thermochemistry Studies on Novel Hydrogen Storage

Materials, 5th Japan-China Seminar on Hydrogen Storage Materials, Feb. 28, 2011, Tokyo, Japan, **Invited Talk**

• **Conference committee membership and chairmanship**

1. Advisory Board Member of CTTA17-2014, Oct., 2014, Hangzhou, China.
2. International Advisory Board Member of RTAC2013, Sept. 23, 2013, Saint Petersburg.
3. International Advisory Board Member of RCCT2013, June 24, 2013, Moscow.
4. International Advisory Board Member of NATAS2013, Aug. 2013, Kentucky, USA.
5. Advisory Board Member of Symposium on Nano-Materials and Device, June, 2013, Guilin, China
6. Advisory Board Member of the 8th Chinese Functional Materials, Aug., 2013, Harbin, China.
7. International Advisory Board Member of ICTAC15, Aug. 2012, Osaka, Japan.
8. International Advisory Board Member of IUMRS-ICEM 2012, Sept., 2012, Yokohama, Japan,
9. International Advisory Board Member, ICCT2012, Aug. 2012, Búzio, Brazil.
10. Advisory Board Member of The 3rd Conference on Chinese Thermodynamic & Kinetics, Oct., 2011, Nanjing, China,
11. Cochair, International Conference on Chemical Engineering and Advanced Materials, May 2011, Changsha, China.
12. International Advisory Board Member, ICCT, 2010, Aug. 2010, Tsukuba,Japan.
13. International Advisory Board Member, ICCT, 2008, Aug. 2008, Warsaw, Poland.