

## Publication list

As for Li-Xian Sun's Publication list, please see my Homepage at: (<https://www.guet.edu.cn/xxcl/info/1061/1093.htm>)

### • Books Chapters

1. **Li-Xian SUN**, Fen Xu, Chapter 3, Thermal Analysis Method, New Methods of Modern Catalysis Research (Ed. By Qin Xin, Mengfei Luo and Jie Xu, Chinese Science Publisher, 2018).
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, 2015, in press).
3. Hailiang Chu, Shujun Qiu, **Li-Xian SUN**, Fen Xu, Chapter 3, Metal Amidoboranes and Their Derivatives for Hydrogen Storage, Advanced Materials for Renewable Hydrogen Production, Storage and Utilization (Ed. By: Jianjun Liu, Intech Open, 2015, in press)
4. **Li-Xian SUN** and Fen Xu Chapter 3, Thermal Analysis Methods (Ed. By Qin Xin and Mengfei Luo, Chinese Science Publisher, 2004).
5. **Li-Xian SUN**, Chapter 10, Challenging Scientific Problems and Opportunities in Energy Materials and Thermochemistry, in Frontier and Prospect of Physical Chemistry Subject (Ed. By Jun-Lin Yang Fei-Xue Gao and Zhong-Qun Tian, Chinese Science Publisher, 2011).
6. 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).

### • Authorized Patents

1. **Li-Xian SUN**, Ni Gao, Huanzhi Zhang, Zhong Cao, One shape-stabilized phase change material for cold storage and preparation, ZL 201510063140.8, Jan. 30, 2018
2. **Li-Xian SUN**, Zhibao Li, Fen Xu, Erhu Xu, Wei Dong Yuan and Rong Cai, One K<sub>2</sub>TiF<sub>6</sub> doping Mg/PMMA composite and preparation, ZL 201510111016.4, Jan. 11, 2017
3. **Li-Xian SUN**, Zhibao Li, Fen Xu, Yixin Sun, Xia Jiang, Ziqiang Wang, One (NH<sub>4</sub>)<sub>2</sub>TiF<sub>6</sub> doping boron-based hydrogen storage material and preparation, ZL201510111394.2, Aug. 8, 2017
4. **Li-Xian SUN**, Yulong Shao, Fen Xu, Yongjin Zou, Hailiang Chu, One Al-BiBr<sub>3</sub> aluminum-based hydrogen production material and preparation, ZL 201510359876.X, May. 3, 2017
5. **Li-Xian SUN**, Zhibao Li, Fen Xu, Yingjie Zhang, Tianbao Yang, One TiH<sub>2</sub>doping boron-based hydrogen storage material and preparation, ZL 201510111939.X, Apr. 26, 2017
6. **Li-Xian SUN**, Huanzhi Zhang, Fen Xu, Ziming Zhao, Jian Zhang, One Phase change sunscreen Film with temperature controlling and preparation, ZL 103450531B, Mar. 23, 2016
7. **Li-Xian SUN**, Shuang Liu, Jian Zhang, Zhibao Li, Ziqiang Wang, Xia Jiang, One carboxylic functionalized graphene and preparation, CN104445155B, Mar. 23, 2016
8. **Li-Xian SUN**, Yi Liu, Fen Xu, Jian Zhang, Zhong Cao and Fen Li, Preparation and application of Al-based hydrogen production material with high hydrogen production, CN103879959B, Jan. 20, 2016
9. **Li-Xian SUN**, Rong Cai, Fen Xu, Yongjin Zou, Chuliang Hai, Huanzhi Zhang, One expanded graphite/ LiBH<sub>4</sub> composite hydrogen storage material and preparation, CN104649224A, Sep. 26, 2017
10. Yongjin Zou, Cuili Xiang, Jun Cheng, **Li-Xian SUN**, Fen Xu, Chuliang Hai, Shujun Qiu, Preparation of a nanometer porous quaternary alloy catalyst and its application in hydrolysis of ammonia borane to hydrogen One nano porous quaternary alloy catalyst and preparation, CN104148084A, Jun. 01, 2016
11. Yongjin Zou, Chenglong Cai, Cuili Xiang, Fen Xu, **Li-Xian SUN**, Preparation method and application of Co/Ni/W alloy oxide graphene composite material, CN106504905A, Sep. 07, 2018
12. Fen Xu, Chong Zhao, Li-Xian SUN, Xiangfei Zhang, Yongjin Zou, Chuliang Hai, Preparation method of Al-BiOCl aluminum-based composite hydrogen production material, CN105800553A, Apr.17, 2018

13. Yongjin Zou, Jun Cheng, Cuili Xiang, **Li-Xian SUN**, Fen Xu, Chuliang Hai, ShujunQiu, Preparation method of a catalyst of amorphous ternary alloy/graphene composite , CN104069862A, May.29, 2017
14. Cuili Xiang, Yongjin Zou, Dadi Jiang, **Li-Xian SUN**, Fen Xu, Chuliang Hai, ShujunQiu, Huanzhi Zhang, Preparation method of an aesistive hydrogen sensor based on nano composite material , CN104076066A, Jan .12, 2018
15. Chuliang Hai, ShujunQiu, **Li-Xian SUN**, Fen Xu, Preparation method of a high-capacity light metal composite hydrogen storage material, CN104030239A, Jun.06, 2016
16. Yongjin Zou, Jun Cheng, Cuili Xiang, **Li-Xian SUN**, Fen Xu, Chuliang Hai, ShujunQiu, Amorphous ternary alloy/graphene composite catalyst and its application in hydrolysis of boron hydride compounds, CN104014344A, Apr.19, 2017
17. **Li-Xian SUN**, Ziqiang Wang, Fen Xu, Jian Zhang, Shuang Liu, Huanzhi Zhang, Anitrogen-containing carbon material with good carbon dioxide adsorption separation performance and application , CN103877932A, May.11, 2016
18. **Li-Xian SUN**, Zhibao Li, Jian Zhang, Fen Xu, Fen Li, Shuang Liu, Preparation method of a catalyst doped magnesium-based hydrogen storage material , CN103879957A, Feb.08, 2017
19. Zhong Cao, Jinlei Xie, Yan Xun, Dan Chen, Juxian Zeng, **Li-Xian SUN**, One preparation method of a nano-gold film electrode based on borosilicate, CN103792273A, Feb.17, 2016
20. Zhong Cao, Shuangli Zhu, Jinglin He, Ping Wu, Julan Zeng, **Li-Xian SUN**, One preparation method of a nano-gold film electrode based on silicon nitride, CN103776882A, Jan. 20, 2016
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22. **Li-Xian SUN**, Shuang Wang, Fen Xu, Jian Zhang, Fen Li, Jiacheng Liu, One Al-NaBiO<sub>3</sub> hydrolysis composite for hydrogen production and preparation,CN103420336A, Dec. 16, 2015
23. **Li-Xian SUN**, Ju-Lan Zeng, Fen Xu, Jun-Ning Zhao, Preparation method of a kind of phase change materials, ZL101343529, Sept. 1, 2010.
24. **Li-Xian SUN**, Yong-Jin Zou, Li-Ni Yang and Fen Xu, One Microbial Fuel Cells and Preparation, ZL101150200, Jul. 8, 2009.
25. **Li-Xian SUN**, Yong-Jin Zou, Cui-Li Xiang and Fen Xu, Preparation and application of piezoelectric hydrogen sensor, ZL101290310, Jan. 11, 2012

### Selected papers

#### • Selected publications

Year 2019

1. Z.Y. Deng, L. Miao, P.F. Liu, J.H. Zhou, P.F. Wang, Y.F. Gu, X.Y. Wang, H.F. Cai, **L.X. Sun**, S. Tanemura, Extremely high water-production created by a nanoink-stained PVA evaporator with embossment structure, *Nano Energy*, 55 (2019) 368-376.
2. Y. Xia, H. Zhang, P. Huang, C. Huang, F. Xu, Y. Zou, H. Chu, E. Yan, **L.X. Sun**, Graphene-oxide-induced lamellar structures used to fabricate novel composite solid-solid phase change materials for thermal energy storage, *Chemical Engineering Journal*, 362 (2019) 909-920.
3. H.L. Chu, N.P. Li, S.J. Qiu, Y.J. Zou, C.L. Xiang, F. Xu, **L.X. Sun**, Ruthenium supported on nitrogen-doped porous carbon for catalytic hydrogen generation from NH<sub>3</sub>BH<sub>3</sub> hydrolysis, *International Journal of Hydrogen Energy*, 44 (2019) 1774-1781.
4. C.C. Xu, F. Xu, **L.X. Sun**, L.Z. Cao, F. Yu, H.Z. Zhang, E.H. Yan, H.L. Peng, H.L. Chu, Y.J. Zou, A High-Performance Supercapacitor Based on Nitrogen-Doped Porous Carbon Derived from Cycas Leaves, *International Journal of Electrochemical Science*, 14 (2019) 1782-1793.
5. Y.S. Li, J. Wang, Z.F. Zhou, J.Q. Deng, Q.R. Yao, H.L. Chu, Z.M. Wang, **L.X. Sun**, H.Y. Zhou, Large-scale synthesis of porous Li<sub>3</sub>V<sub>2</sub>(PO<sub>4</sub>)<sub>3</sub>@C/AB hollow microspheres with

interconnected channel as high performance cathodes for lithium-ion batteries, *Journal of Alloys and Compounds*, 774 (2019) 879-886.

6. Y. Yin, H. Zeng, Q.L. Sui, C.L. Xiang, Y.J. Zou, H.L. Chu, S.J. Qiu, Q. Chen, F. Xu, **L.X. Sun**, Formation of CoO-NiO Nanoparticles on Nitrogen Doped Porous Carbon as High Performance Supercapacitor Electrode, *International Journal of Electrochemical Science*, 14 (2019) 764-776.

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1. Y.M. Luo, **L.X. Sun**, F. Xu, Z.W. Liu, Improved hydrogen storage of LiBH<sub>4</sub> and NH<sub>3</sub>BH<sub>3</sub> by catalysts, *Journal of Materials Chemistry A*, 6 (2018) 7293-7309.

2. J.C. Wang, Y. Du, **L.X. Sun**, Understanding of hydrogen desorption mechanism from defect point of view, *National Science Review*, 5 (2018) 318-U175.

3. E.H. Yan, H.R. Huang, S.H. Sun, Y.J. Zou, H.L. Chu, **L.X. Sun**, Development of Nb-Ti-Co alloy for high-performance hydrogen separating membrane, *Journal of Membrane Science*, 565 (2018) 411-424.

4. F. Xu, **L.X. Sun**, P.R. Huang, Y.J. Sun, Q. Zheng, Y.J. Zou, H.L. Chu, E.H. Yan, H.Z. Zhang, J.H. Wang, Y. Du, pyridine vapor sensor based on metal-organic framework-modified quartz crystal microbalance, *Sensors and Actuators B-Chemical*, 254 (2018) 872-877.

5. P. Li, F. Xu, **L.X. Sun**, Y.P. Xia, J. Chen, X. Yang, Y.P. Wu, F. Yu, Y.M. Luo, Hydrogen generation performance of novel Al-LiH-metal oxides, *Inorganic Chemistry Frontiers*, 5 (2018) 1700-1706.

6. H.L. Chu, C.F. Shao, S.J. Qiu, Y.J. Zou, C.L. Xiang, F. Xu, **L.X. Sun**, Nitrogen-rich sandwich-like carbon nanosheets as anodes with superior lithium storage properties, *Inorganic Chemistry Frontiers*, 5 (2018) 225-232.

7. C.F. Shao, S.J. Qiu, H.L. Chu, Y.J. Zou, C.L. Xiang, F. Xu, **L.X. Sun**, Nitrogen-doped porous microsphere carbons derived from glucose and aminourea for high-performance supercapacitors, *Catalysis Today*, 318 (2018) 150-156.

8. S.J. Qiu, W. Gao, X.Y. Ma, H.L. Chu, Y.J. Zou, C.L. Xiang, H.Z. Zhang, F. Xu, **L.X. Sun**, Enhanced thermal diffusivity and dehydrogenation of 2LiNH<sub>2</sub>-MgH<sub>2</sub> by doping with super activated carbon, *International Journal of Hydrogen Energy*, 43 (2018) 13975-13980.

9. H.L. Peng, P.R. Huang, P.G. Yi, F. Xu, **L.X. Sun**, Theoretical studies of pi-electron delocalization and localization on intramolecular proton transfer in the ground state, *Journal of Molecular Structure*, 1154 (2018) 590-595.

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17. Y.J. Zou, Y. Yin, Y.B. Gao, C.L. Xiang, H.L. Chu, S.J. Qiu, E.H. Yan, F. Xu, **L.X. Sun**, Chitosan-mediated Co-Ce-B nanoparticles for catalyzing the hydrolysis of sodium borohydride, *International Journal of Hydrogen Energy*, 43 (2018) 4912-4921.
18. E.H. Yan, H.R. Huang, R.N. Min, P. Zhao, R.D.K. Misra, P.R. Huang, F. Xu, **L.X. Sun**, Effect of Pd overlayer and mixed gases on hydrogen permeation of Pd/Nb<sub>30</sub>Hf<sub>35</sub>Co<sub>35</sub>/Pd composite membranes, *International Journal of Hydrogen Energy*, 43 (2018) 14466-14477.
19. Y.J. Zou, C.L. Cai, C.L. Xiang, P.R. Huang, H.L. Chu, Z. She, F. Xu, **L.X. Sun**, H.B. Kraatz, Simple synthesis of core-shell structure of Co-Co<sub>3</sub>O<sub>4</sub> @ carbon-nanotube-incorporated nitrogen-doped carbon for high-performance supercapacitor, *Electrochimica Acta*, 261 (2018) 537-547.
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26. S. Liu, **L.X. Sun**, L.T. Liu, Y.L. Zhou, F. Xu, Morphology-control synthesis of a Cu-based metal-organic framework directed by carboxyl-functionalized graphene, *Polyhedron*, 149 (2018) 104-108.
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5. X. Li, X.B. Cheng, M.X. Gao, D.W. Ren, Y.F. Liu, Z.X. Guo, C.X. Shang, **L.X. Sun**, H.G. Pan, Amylose-Derived Macrohollow Core and Microporous Shell Carbon Spheres as Sulfur Host for Superior Lithium Sulfur Battery Cathodes, *Acs Applied Materials & Interfaces*, 9 (2017) 10717-10729.
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