

Associate Professor LIU Jingjing

College	College of Mechanical Engineering
Current Position	Associate Professor
Types of Tutor	Master Tutor
Language	Chinese/English
Education	2010.09~2016.01: studied for doctor's degree in Chemical Engineering at Yanshan University 2016.09~2010.07: studied for bachelor's degree in Biological Engineering at Yanshan University
Research Interests	Hydrogen Storage Materials、 Power Batteries
Selected Publications	<p>[1] Jingjing Liu, Yongke Yan, Honghui Cheng*, Shumin Han*, Yifei Lv, Kang Li, Chen Lu. Phase transformation and high electrochemical performance of $\text{La}_{0.78}\text{Mg}_{0.22}\text{Ni}_{3.73}$ alloy with $(\text{La},\text{Mg})_5\text{Ni}_{19}$ superlattice structure. <i>J. Power Sources</i>, 2017, 351: 26–34. IF: 7.19</p> <p>[2] Jingjing Liu, Yuan Li, Da Han, Shuqin Yang, Lu Zhang, Shumin Han*. Electrochemical performance and capacity degradation mechanism of single-phase La-Mg-Ni-based hydrogen storage alloys, <i>J. Power Sources</i>, 2015, 300: 77–86. IF: 7.19</p> <p>[3] Jingjing Liu, Shumin Han*, Da Han, Yuan Li, Shuqin Yang, Lu Zhang, Yumeng Zhao. Enhanced cycling stability and high rate dischargeability of $(\text{La},\text{Mg})_2\text{Ni}_7$-type hydrogen storage alloys with $(\text{La},\text{Mg})_5\text{Ni}_{19}$ minor phase. <i>J. Power Sources</i>, 2015, 287: 237–246. IF: 7.19</p> <p>[4] Jingjing Liu, Shumin Han*, Yuan Li, Shuqin Yang, Cong Wu. Effect of Pr on phase structure and cycle stability of La-Mg-Ni-based alloys with A2B7- and A5B19-type superlattice structures.</p>

	<p><i>Electrochim. Acta</i>, 2015, 184: 257-263. IF: 5.26</p> <p>[5] Jingjing Liu, Shumin Han*, Yuan Li, Yifei Lv, Shuqin Yang, Junling Zhang, Jinding Wang. Phase structure and electrochemical characteristics of high-pressure sintered La–Mg–Ni-based hydrogen storage alloys. <i>Electrochim Acta</i>, 2013, 111: 18–24. IF: 5.26</p> <p>[6] Jingjing Liu, Kang Li, Honghui Cheng*, Kai Yan, Yu Wang, Yi Liu, Huimin Jin, Zhi Zheng. New insights into the hydrogen storage performance degradation and Al functioning mechanism of LaNi_{5-x}Al_x alloys. <i>Int. J. Hydrogen Energ.</i>, 2017, 42: 24904–24914. IF: 4.16</p> <p>[7] Jingjing Liu, Shumin Han*, Yuan Li, Lu Zhang, Yumeng Zhao, Shuqin Yang, Baozhong Liu. Phase structures and electrochemical properties of La–Mg–Ni-based hydrogen storage alloys with superlattice structure. <i>Int. J. Hydrogen Energ.</i>, 2016, 41: 20261–20275. IF: 4.16</p> <p>[8] Jingjing Liu, Shumin Han*, Yuan Li, Xin Zhao, Shuqin Yang, Yumeng Zhao. Cooperative effects of Sm and Mg on electrochemical performance of La–Mg–Ni-based alloys with A₂B₇- and A₅B₁₉-type super-stacking structure. <i>Int. J. Hydrogen Energ.</i>, 2015, 40: 1116–1127. IF: 4.16 (二区, TOP)</p> <p>[9] Jingjing Liu, Shumin Han*, Yuan Li, Junling Zhang, Yumeng Zhao, Linda Che. Effect of crystal transformation on electrochemical characteristics of La–Mg–Ni-based alloys with A₂B₇-type super-stacking structures. <i>Int. J. Hydrogen Energ.</i>, 2013, 38: 14903–14911. IF: 4.16</p> <p>[10] Jingjing Liu, Shuai Zhu, Zhi Zheng, Honghui</p>
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	<p>Cheng*, Kai Yan, Zhida Zhu. Long-term hydrogen absorption/desorption properties and structural changes of LaNi₄Co alloy with double desorption plateaus. <i>J. Alloy. Compd.</i>, 2019, 778: 681–690. IF: 4.12</p> <p>[11] Jingjing Liu, Shuai Zhu, Honghui Cheng*, Zhi Zheng, Zhida Zhu, Kai Yan, Shumin Han*. Enhanced cycling stability and high rate dischargeability of A₂B₇-type La-Mg-Ni-based alloys by in-situ formed (La,Mg)₅Ni₁₉ superlattice phase. <i>J. Alloy. Compd.</i>, 2019, 731:1087–1097. IF: 4.12</p> <p>[12] Jingjing Liu, Zhi Zheng, Honghui Cheng, Kang Li, Kai Yan, Xingbo Han, Yu Wang, Yi Liu. Long-term hydrogen storage performance and structural evolution of LaNi₄Al alloy. <i>J. Alloy. Compd.</i>, 2018, 731:172–180. IF: 4.12</p> <p>[13] Jingjing Liu, Shumin Han*, Yuan Li, Shuqin Yang, Lu Zhang, Yumeng Zhao. Effect of Al incorporation on the degradation in discharge capacity and electrochemical kinetics of La-Mg-Ni-based alloys with A₂B₇-type super-stacking structure. <i>J. Alloy. Compd.</i>, 2015, 619: 778–787. IF: 4.12</p> <p>[14] Jingjing Liu, Shumin Han*, Yuan Li, Shuqin Yang, Wenzhuo Shen, Lu Zhang, Yu Zhou. An investigation on phase transformation and electrochemical properties of as-cast and annealed La_{0.75}Mg_{0.25}Ni_x (x = 3.0, 3.3, 3.5, 3.8) alloys. <i>J. Alloy. Compd.</i>, 2013, 552:119–126. IF: 4.12</p> <p>[15] Jingjing Liu, Shumin Han*, Yuan Li, Shuqin Yang, Wenzhuo Shen, Xiaocui Chen, Yumeng Zhao. Microstructure and Electrochemical Characteristics of Step-Wise Annealed La_{0.75}Mg_{0.25}Ni_{3.5} Alloy with A₂B₇- and A₅B₁₉-type Super-Stacking Structure. <i>J. Electrochem. Soc.</i>, 2013, 160: A1139–A1145.</p>
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	<p>IF: 3.34</p> <p>[16] Jingjing Liu, Yujun Chai, Ning Wang*. Phase transformation, hydrogen absorption/desorption and electrochemical properties of a novel AB_{4.5}-type La_{0.8}Mg_{0.2}Ni_{4.0}Co_{0.5} Alloy. <i>Int. J. Electrochem. Sci.</i>, 2019, 14: 402–413. IF: 1.36</p> <p>[17] Zhida Zhu, Shuai Zhu, Haoqi Lu, Jie Wu, Kai Yan, Honghui Cheng*, Jingjing Liu*. Stability of LaNi_{5-x}Co_x alloys cycled in hydrogen - Part 1 evolution in gaseous hydrogen storage performance. <i>Int. J. Hydrogen Energ.</i>, 2019, 44: 15159–15172. IF: 4.16</p> <p>[18] Zhida Zhu, Shuai Zhu, Xin Zhao, Honghui Cheng*, Kai Yan, Jingjing Liu*. Effects of Ce/Y on the cycle stability and anti-plateau splitting of La_{5-x}Ce_xNi₄Co ($x = 0.4, 0.5$) and La_{5-y}Y_yNi₄Co ($y = 0.1, 0.2$) hydrogen storage alloys. <i>Mater. Chem. Phys.</i> 2019, 236: 121725–121734. IF: 4.16</p>
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