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### Education:

Sep 2008- Jun 2013.     **Ph.D. Department of Materials Science and Engineering,  
Tsinghua University, China**

Sep 2004- Jun 2008.     **B.S., Department of Materials Science and Engineering,  
Tsinghua University, China**

### Professional Experience:

Jun 2013- present:     **Associate Professor, College of Materials Science and  
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### Research Interests:

- Thermolectric Composites Materials: fabricating inorganic semiconductors (e.g. BiCuSeO, Bi<sub>2</sub>O<sub>2</sub>Se, MXenes) and conducting polymer (PANi and PEDOT:PSS) for flexible thermolectric materials.
- Advanced lithium/sodium batteries: carbon nanofibers based anode, gel/solid electrolytes.

### Journal Publications

\*: corresponding author, §: equal contribution

Total citation > 1, 500 times   H index: 23

- 84 Kong, Nizao; Jia, Mengzhen; Yang, Cheng; **Lan, Jinle\***; Yu, Yunhua\*; Yang, Xiaoping, "Encapsulating V<sub>2</sub>O<sub>3</sub> Nanoparticles in Carbon Nanofibers with Internal Void Spaces for a Self-Supported Anode Material in Superior Lithium-Ion Capacitors". *ACS Sustainable Chemistry & Engineering* 2019, 7, 19483-19495.
- 83 Ding, Chenfeng; Huang, Lingbo; Yan, Xiaodong; Dunne, Francis; Hong, Song; **Lan, Jinle\***; Yu, Yunhua\*; Zhong, Wei-Hong\*; Yang, Xiaoping, "Robust, Superelastic Hard Carbon with In Situ Ultrafine Crystals". *Advanced Functional Materials* 2019 (online)
- 82 Siyal, Sajid Hussain; Li, Mengjie; Li, Hao; **Lan, Jin-Le\***; Yu, Yunhua\*; Yang, Xiaoping, "Ultraviolet irradiated PEO/LATP composite gel polymer electrolytes for lithium-metallic batteries (LMBs)". *Applied Surface Science*

- 81 Ding, Chenfeng; Fu, Xuwei; Li, Hao; Yang, Jiayi; **Lan, Jin-Le\***; Yu, Yunhua\*; Zhong, Wei-Hong\*; Yang, Xiaoping, "An Ultrarobust Composite Gel Electrolyte Stabilizing Ion Deposition for Long-Life Lithium Metal Batteries". *Advanced Functional Materials* 2019, 29, 1904547
- 80 Ren, Guang-Kun; **Lan, Jin-Le\***; Zhao, Li-Dong; Liu, Chan; Yuan, Haocheng; Shi, Yan; Zhou, Zhifang; Lin, Yuan-Hua\*, "Layered oxygen-containing thermoelectric materials: Mechanisms, strategies, and beyond". *Materials Today* 2019, 29, 68-85
- 79 Tan, Xing; Liu, Yaochun; Liu, Rui; Zhou, Zhifang; Liu, Chan; **Lan, Jin-Le\***; Zhang, Qinghua; Lin, Yuan-Hua\*; Nan, Ce-Wen, "Synergistical Enhancement of Thermoelectric Properties in n-Type Bi<sub>2</sub>O<sub>2</sub>Se by Carrier Engineering and Hierarchical Microstructure". *Advanced Energy Materials* 2019, 9, 1900354
- 78 Jia, Fang; Wu, Ruili; Liu, Chan; **Lan, Jinle\***; Lin, Yuan-Hua\*; Yang, Xiaoping, "High Thermoelectric and Flexible PEDOT/SWCNT/BC Nanoporous Films Derived from Aerogels". *ACS Sustainable Chemistry & Engineering* 2019, 7, 12591-12600
- 77 Zhu, Ming; Wu, Jiabin; Liu, Bingxue; Zhong, Wei-Hong; **Lan, Jinle**; Yang, Xiaoping; Sui, Gang\*, "Multifunctional polymer electrolyte improving stability of electrode-electrolyte interface in lithium metal battery under high voltage". *Journal of Membrane Science* 2019, 588, 117194
- 76 Yang, Jiayi<sup>§</sup>; Yang, Yuwei<sup>§</sup>; **Lan, Jinle\***; Yu, Yunhua\*; Yang, Xiaoping, "Polyaniline-manganese dioxide-carbon nanofiber ternary composites with enhanced electrochemical performance for supercapacitors". *Journal of Electroanalytical Chemistry* 2019, 843, 22-30
- 75 Yang, Cheng; Zhang, Mengyan; Kong, Nizao; **Lan, Jinle\***; Yu, Yunhua\*; Yang, Xiaoping, "Self-Supported Carbon Nanofiber Films with High-Level Nitrogen and Phosphorus Co-Doping for Advanced Lithium-Ion and Sodium-Ion Capacitors". *ACS Sustainable Chemistry & Engineering* 2019, 7, 9291-9300
- 74 Liu, Yuan; Yan, Xiaodong; Xu, Bingqing; **Lan, Jinle\***; Yu, Yunhua; Yang, Xiaoping; Lin, Yuanhua\*; Nan, Cewen, "Li<sub>4</sub>Ti<sub>5</sub>O<sub>12</sub> nanosheets assembled in tubular architecture for lithium storage". *Chemical Engineering Journal* 2019, 361, 1371-1380
- 73 Yuan, Haocheng; Jin, Yuqiang; Chen, Xiaona; **Lan, Jinle\***; Yu, Yunhua\*; Yang, Xiaoping, "Large-Scale Fabrication of Egg-Carton-Inspired Bi/C Composite toward High Volumetric Capacity and Long-Life Lithium Ion Batteries". *ACS Sustainable Chemistry & Engineering* 2019, 7, 6033-6042
- 72 Yang, Cheng; **Lan, Jin-Le\***; Ding, Chenfeng; Wang, Feng; Siyal, Sajid Hussain; Yu, Yunhua\*; Yang, Xiaoping, "Three-dimensional hierarchical ternary aerogels of ultrafine TiO<sub>2</sub> nanoparticles@porous carbon nanofibers-reduced graphene oxide for high-performance lithium-ion capacitors". *Electrochimica Acta* 2019, 296, 790-798

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- 70 Liu, Xiu<sup>§</sup>; Liu, Yuan<sup>§</sup>; Yan, Xiaodong; **Lan, Jin-Le\***; Yu, Yunhua; Yang, Xiaoping, "Ultrafine MoO<sub>3</sub> nanoparticles embedded in porous carbon nanofibers as anodes for high-performance lithium-ion batteries". *Materials Chemistry Frontiers* 2019, 3, 120-126
- 69 Tan, Xing; **Lan, Jin-Le**; Hu, Kerong; Xu, Ben; Liu, Yaochun; Zhang, Peng; Cao, Xing-Zhong; Zhu, Yingcai; Xu, Wei; Lin, Yuan-Hua\*; Nan, Ce-Wen, "Boosting the thermoelectric performance of Bi<sub>2</sub>O<sub>2</sub>Se by isovalent doping". *Journal of the American Ceramic Society* 2018, 101, 4634-4644
- 68 Li, Hao; Li, Mengjie; Siyal, Sajid Hussain; Zhu, Ming; **Lan, Jin-Le\***; Sui, Gang; Yu, Yunhua\*; Zhong, Weihong; Yang, Xiaoping, "A sandwich structure polymer/polymer-ceramics/polymer gel electrolytes for the safe, stable cycling of lithium metal batteries". *Journal of Membrane Science* 2018, 555, 169-176
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- 65 Liu, Rui; Tan, Xing; Liu, Yao-Chun; Ren, Guang-Kun; **Lan, Jin-Le**; Zhou, Zhi-Fang; Nan, Ce-Wen; Lin, Yuan-Hua\*, "BiCuSeO as state-of-the-art thermoelectric materials for energy conversion: from thin films to bulks". *Rare Metals* 2018, 37, 259-273.
- 64 Zhu, Ming; Wu, Jiabin; Zhong, Wei-Hong; **Lan, Jinle**; Sui, Gang\*; Yang, Xiaoping\*, "A Biobased Composite Gel Polymer Electrolyte with Functions of Lithium Dendrites Suppressing and Manganese Ions Trapping". *Advanced Energy Materials* 2018, 8, 1702561.
- 63 Liu, Yuan; Yan, Xiaodong; Xu, Bingqing; **Lan, Jinle\***; Liu, Yaochun; Yang, Xiaoping; Lin, Yuanhua\*; Nan, Cewen, "Tunable pseudocapacitive contribution in nanosheet-constructed titania hierarchical tubes to achieve superior lithium-storage properties by phase control". *Journal of Materials Chemistry A* 2018, 6, 24298-24310.
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57. Tan, Xing; Liu, Yaochun; Hu, Kerong; Ren, Guangkun; Li, Yueming; Liu, Rui; Lin, Yuan-Hua\*; **Lan, Jin-Le**; Nan, Ce-Wen, "Synergistically optimizing electrical and thermal transport properties of Bi<sub>2</sub>O<sub>2</sub>Se ceramics by Te-substitution". *Journal of the American Ceramic Society* 2018, 101, 326-333.
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55. Zheng, Liming<sup>§</sup>; Liu, Yuan<sup>§</sup>; **Lan, Jinle**; Yu, Yunhua\*; Yang, Xiaoping, "Hierarchical heterostructure of interconnected ultrafine MnO<sub>2</sub> nanosheets grown on carbon-coated MnO nanorods toward high-performance lithium-ion batteries". *Chemical Engineering Journal* 2017, 330, 1289-1296.
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53. Yang, Cheng<sup>§</sup>; **Lan, Jin-Le<sup>§</sup>**; Liu, Wen-Xiao; Liu, Yuan; Yu, Yun-Hua\*; Yang, Xiao-Ping, "High-Performance Li-Ion Capacitor Based on an Activated Carbon Cathode and Well-Dispersed Ultrafine TiO<sub>2</sub> Nanoparticles Embedded in Mesoporous Carbon Nanofibers Anode". *ACS Applied Materials & Interfaces* 2017, 9, 18710-18719.
52. Tan, Xing; **Lan, Jin-Le**; Ren, Guangkun; Liu, Yaochun; Lin, Yuan-Hua\*; Nan, Ce-Wen, "Enhanced thermoelectric performance of n-type Bi<sub>2</sub>O<sub>2</sub>Se by Cl-doping at Se site". *Journal of the American Ceramic Society* 2017, 100, 1494-1501.
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- ion batteries with excellent long-term cycling stability". *RSC Advances* 2017, 7, 36697-36704.
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  48. **Lan, Jin-Le**; Jin, Yuqiang; Qin, Chengjie; Yu, Yunhua; Yang, Xiaoping, "Bio-Inspired Rose-Like Bi@Nitrogen-Enriched Carbon towards High-Performance Lithium-Ion Batteries". *ChemistrySelect* 2017, 2, 7178-7184.
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  42. Ren, Guang-Kun; **Lan, Jin-Le**; Ventura, Kyle J.; Tan, Xing; Lin, Yuan-Hua\*; Nan, Ce-Wen, "Contribution of point defects and nano-grains to thermal transport behaviours of oxide-based thermoelectrics". *NPJ Computational Materials* 2016, 2, 16023.
  41. Liu, Yaochun; Zhou, Yiming; **Lan, Jinle**; Zeng, Chengcheng; Zheng, Yuanhua; Zhan, Bin; Zhang, Boping; Lin, Yuanhua\*; Nan, Ce Wen, "Enhanced thermoelectric performance of BiCuSeO composites with nanoinclusion of copper selenides". *Journal of Alloys & Compounds* 2016, 662, 320-324

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30. Li, Qian<sup>§</sup>; **Lan, Jin-Le<sup>§</sup>**; Liu, Yuan; Yu, Yunhua\*; Yang, Xiaoping, "Carbon nanofiber-supported B<sub>2</sub>O<sub>3</sub>-SnO<sub>x</sub> glasses as anode materials for high-performance lithium-ion batteries". *RSC Advances* 2015, 5, 89099-89104
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26. Zheng, Bin; Liu, Yaochun; Zhan, Bin; Lin, Yuanhua\*; **Lan, Jinle**; Yang, Xiaoping\*, "Enhanced Thermoelectric Properties of BiCuSeO/Polyaniline Composites". *Journal of Electronic Materials* 2014, 43, 3695-3700
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10. Liu, Yong; Lin, Yuan-Hua; **Lan, Jinle**; Zhang, Bo-Ping; Xu, Wei; Nan, Ce-Wen; Zhu, Hongmin, "Thermoelectric Performance of Zn and Nd Co-doped  $\text{In}_2\text{O}_3$  Ceramics". *Journal of Electronic Materials* 2011, 40, 1083-1086
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