

Leitao Cao

Contact Information

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Education

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| 06/2020-now | Postdoc
ShanghaiTech University, Shanghai, China
Advisor: Prof. Shengjie Ling |
| 09/2013-03/2020 | Ph.D.
Major in Textile Materials and Textile Design
Donghua University, Shanghai, China
Advisor: Prof. Jianyong Yu and Prof. Bin Ding |
| 08/2009-06/2013 | B.S.
Major in Textile Engineering
Jiangnan University, Wuxi, Jiangsu, China
Advisor: Prof. Yang Xu and Prof. Yuqin Wan |

Research Topic

Electrospinning; Functional textiles

Publications

1. **Leitao Cao**, Yang Si*, Xia Yin*, Jianyong Yu, Bin Ding*. Ultralight and Resilient Electrospun Fiber Sponge with a Lamellar Corrugated Microstructure for Effective Low-frequency Sound Absorption. *ACS Applied Materials & Interfaces*, 2019, 11 (38), 35333-35342.
2. **Leitao Cao**[†], Yang Si[†], Yuanyuan Wu, Xueqin Wang, Jianyong Yu, Bin Ding*. Ultralight, Superelastic and Bendable Lashing Structured Nanofibrous Aerogels for Effective Sound Absorption. *Nanoscale*, 2019, 11 (5), 2289-2298.
3. **Leitao Cao**, Qiuxia Fu, Yang Si, Bin Ding, Jianyong Yu*. Porous Materials for Sound Absorption. *Composites Communications*, 2018, 10, 25-35.
4. Xiangyang Dong[†], **Leitao Cao**[†] (co-first author), Yang Si, Bin Ding*, Hongbing Deng*. Cellular Structured CNTs@SiO₂ Nanofibrous Aerogels with Vertically Aligned Vessels for Salt-Resistant Solar Desalination. *Advanced Materials*, 2020, DOI:

10.1002/adma.201908269

5. Yuyao Li[†], **Leitao Cao**[†] (co-first author), Xia Yin, Yang Si*, Jianyong Yu, Bin Ding*. Semi-Interpenetrating Polymer Network Biomimetic Structure Enables Superelastic and Thermostable Nanofibrous Aerogels for Cascade Filtration of PM_{2.5}. *Advanced Functional Materials*, 2020, 30 (14), 1910426.
6. Xiaohui Wu[†], **Leitao Cao**[†] (co-first author), Jun Song, Yang Si, Jianyong Yu, Bin Ding*. Thorn-like flexible Ag₂C₂O₄/TiO₂ nanofibers as hierarchical heterojunction photocatalysts for efficient visible-light-driven bacteria-killing. *Journal of Colloid and Interface Science*, 2020, 560, 681-689.
7. Yuyao Li, **Leitao Cao**, Xia Yin, Yang Si*, Jianyong Yu, Bin Ding*. Ultrafine, self-crimp, and electret nano-wool for low-resistance and high-efficiency protective filter media against PM_{0.3}. *Journal of Colloid and Interface Science*, 2020, 578, 565-573.
8. Dingding Zong, **Leitao Cao**, Yuyao Li, Xia Yin, Yang Si*, Jianyong Yu, Bin Ding*. Interlocked Dual Network and Superelastic Electrospun Fibrous Sponges for Efficient Low-Frequency Noise Absorption. *Small structures*, 2020, (Accepted)
9. Wen Zhou, Xi Yu, **Leitao Cao**, Ming Yang, Yang Li, Yang Si*, Jianyong Yu, Bin Ding*. Green and Ethanol-Resistant Polyurethane Nanofibrous Membranes Based on an Ethanol Solvent for Waterproof and Breathable Textiles. *Advanced Sustainable Systems*, 2020, DOI: 10.1002/adsu.202000105
10. Jianlong Ge, Yongshuai Qu, **Leitao Cao**, Fei Wang, Lvye Dou, Jianyong Yu, Bin Ding*. Polybenzoxazine-based highly porous carbon nanofibrous membranes hybridized by tin oxides nanoclusters: durable mechanical elasticity and capacitive performance. *Journal of Materials Chemistry A*, 2016. 4 (20), 7795-7804.
11. Shichao Zhang, Ning Tang, **Leitao Cao**, Xia Yin, Jianyong Yu, Bin Ding*. Highly Integrated Polysulfone/Polyacrylonitrile/Polyamide-6 Air Filter for Multilevel Physical Sieving Airborne Particles. *ACS Applied Materials & Interfaces*, 2016 8(42): 29062-29072.

Patents

6 Authorized invention patents (ZL201510632133.5, ZL201510631903.4, ZL201710215889.9, CN201710215988.7, CN201710213035.7, CN201710215987.2)

Academic Services

- Peer Reviewer

The Journal of the Textile Institute, Composites communications