

肖学良博士

1. 个人简介

肖学良，1984年12月生，2012年英国诺丁汉大学（The University of Nottingham, UK）材料工程与材料设计专业毕业，获哲学博士学位。2012年~2015年在香港理工大学从事博士后研究工作。2015年底回江南大学纺织服装学院任教。现任江南大学纺织服装学院副教授，硕士生导师。



肖学良目前为 SCI 期刊 Applied Science 和 Polymers 特约编辑,同时担任“Heat and Mass Transfer”, “Textile Research Journal”, “The Journal of Textile Institute”, “Journal of the Royal Society-Interface”, “Journal of Materials Science”, “Physics of Fluids”, “Composites Part B”等期刊特约审稿人。

近年来,陆续发表了以 Scientific Reports、Polymer Chemistry 等为代表的的第一作者 SCI 论文 22 篇, 授权专利 4 项, 进入实审阶段的专利 6 项。正式出版著作《Handbook of Fibrous Materials》1 部。参与国家‘十三五’重点研发专项 1 项, 主持中央专项资金项目 1 项, 主持省部级项目数 2 项, 获中国纺织工程学会奖项 2 项, 同时参与多个校企之间的横向课题。带领学生获得过国家级大学生创新项目最受欢迎项目奖和优秀项目奖等。

2. 研究生教育

(1) 硕士生

学术型研究生招生专业:

① 纺织材料与纺织品设计 研究方向: 功能性纺织材料制备理论与技术, 纺织品设计与工程;

② 纺织工程 研究方向: 功能化纺织技术

专业学位研究生招生专业: 纺织工程 研究方向: 服装设计(与)工程

3. 联系方式

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本人的研究兴趣主要体现在：

(1) 智能及功能高分子材料、纤维材料及纺织品的研究（形状记忆天然纤维材料、导电水凝胶、柔性传感器、仿生织物结构设计、柔性发电及储能纤维及织物、可穿戴心电监测衣、健身衣、消防衣等功能服装的研发）。

(2) 纺织结构与性能关系的基础研究（纤维、纱线、织物、复合材料力学性能和流体力学相关的数学分析与计算机模拟）；

(3) 产业用防护纺织品的研发（防护、土木、建筑、农业用纺织品及复合材料，基础研究及应用研发）；

附：以第一作者发表的 SCI 论文

- (1) **Xueliang Xiao**, Ziqing Cai, Kun Qian. *Structure evolution of polyamide (11)'s crystalline phase under uniaxial stretching and increasing temperature*, Journal of Polymer Research, 2017, 24(5), 81
- (2) **Xueliang Xiao**, Jinlian Hu, Xiaoting Gui, Kun Qian. *Shape Memory Investigation of α -Keratin Fibers as Multi-Coupled Stimuli of Responsive Smart Materials*. Polymers, 2017, 9(3), 87
- (3) **Xueliang Xiao**, Ke Dong, Wangqin Wu, Xi Mei. *Performance evaluation of plain weave and honeycomb weave electrodes for human ECG monitoring*, Journal of Sensors, 2017, in press
- (4) **Xueliang Xiao**, Andrew Long, Kun Qian, Xuesen Zeng, Tao Hua. *Through-thickness permeability of woven fabric under increasing air pressure: theoretical framework and simulation*. Textile Research Journal, 2017, in press
- (5) **Xueliang Xiao**, Hao Chen, Kun Qian. *Thermomechanical study of polyethylene porous membrane by coating silicon dioxide nanoparticles*. Science and Engineering of Composite Materials, 2017, in press
- (6) **Xueliang Xiao**, Guanzheng Wu, Hongtao Zhou, Kun Qian, Jinlian Hu. *Preparation and property evaluation of conductive hydrogel using poly (vinyl alcohol) / polyethylene glycol / graphene oxide for human electrocardiogram acquisition*. Polymers, 2017, in press
- (7) **Xueliang Xiao**^{*}, Hongtao Zhou, Kun Qian. *Mechanism study of biopolymer hair as a coupled thermo-water responsive smart material*. Smart Materials and Structures 2017, 26(3): 035023
- (8) **Xueliang Xiao**, Jinlian Hu^{*}, Xiaoting Gui, Jing Lu, Hongsheng Luo. *Is biopolymer hair a multi-responsive smart material?* Polymer Chemistry 2017, 8: 283-294
- (9) Ming Dai[#], **Xueliang Xiao**[#], Xin Chen, Haoming Lin, Wanqing, Wu^{*}, Siping Chen. *A low-power and miniaturized electrocardiograph data collection system with smart textile electrodes for monitoring of cardiac function*. Australasian Physical & Engineering Sciences in Medicine, 2016, 39(4): 1029-1040
- (10) **Xueliang Xiao**, Jinlian Hu^{*}. *Animal hairs as water-stimulated shape memory materials: mechanism and structural networks in molecular assemblies*. Scientific Reports 2016, 6: 26393-26396
- (11) **Xueliang Xiao**, Jinlian Hu^{*}, David Hui. *Tensile-relaxation study of camel hair fiber at elastic stretching region: Analytical model and experiment*, Composites Part B: Engineering, 2016, 91, 559-568
- (12) **Xueliang Xiao**, Jinlian Hu^{*}, *Influence of sodium bisulfite and lithium bromide solutions on the shape fixation of camel guard hairs in slenderization process*. International Journal of Chemical Engineering, 2016, 1(12), 4803254-56

- (13) **Xueliang Xiao**, Jinlian Hu^{*}, Tao Hua, Xuesen Zeng, Andrew Long. *Through-thickness air permeability of woven fabric under low pressure compression*, Textile Research Journal, 2015, 85(16), 1732-1742
- (14) **Xueliang Xiao**, Tao Hua^{*}, Li Li and Jinchun Wang. *Geometrical modelling of honeycomb woven fabric architecture*, Textile Research Journal, 2015, 85(16), 1651-1665
- (15) **Xueliang Xiao**^{*}, Andrew Long, Hua Lin, Xuesen Zeng. *Large deformation modelling of tight woven fabric under high air pressure*, Journal of Engineered Fibers and Fabrics, 2015, 10(1), 63-74
- (16) **Xueliang Xiao**^{*}, Andreas Endruweit, Jinlian Hu, Xuesen Zeng, Andrew Long^{*}. *Through-thickness permeability study of orthogonal and angle-interlock woven fabrics*, Journal of Materials Science, 2015, 50(3), 1257-1266
- (17) **Xueliang Xiao**, Tao Hua^{*}, Jinchun Wang, Li Li, Waiman Au. *Transfer and mechanical properties of three-dimensional honeycomb fabric*, Textile Research Journal, 2015, 85, 1281-1292
- (18) **Xueliang Xiao**^{*}, Andrew Long, Xuesen Zeng. *Through-thickness permeability modelling of woven fabric under out-of-plane deformation*, Journal of Materials Science, 2014, 49(21), 7563-7574
- (19) **Xueliang Xiao**^{*}, Andrew Long. *A solution for transverse thermal conductivity of composites with quadratic or hexagonal unidirectional fibres*, Science and Engineering of Composite Materials, 2014, 21(1), 99-109
- (20) **Xueliang Xiao**, Xuesen Zeng, Andrew Long^{*}, Hua Lin, Michael Clifford, Elena Saldaeva, Kenneth Lee and Simon Watson. *An analytical model for through-thickness permeability of woven fabric*, Textile Research Journal, 2012, 82(5), 492-501
- (21) **Xueliang Xiao**, Xuesen Zeng, Palitha Bandara and Andrew Long^{*}. *Experimental study of dynamic air permeability for woven fabrics*, Textile Research Journal, 2012, 82(9), 920-930
- (22) **Xueliang Xiao**, Fang Chen, Qufu Wei^{*} and Ning Wu. *Surface modification of polyester nonwoven fabrics by Al₂O₃ sol-gel coating*, Journal of Coatings Technology and Research, 2009, 6(4), 537-541