

中国科学技术协会 “中国科技期刊卓越行动计划选育高水平办刊人才子项目”

学术出版卓越计划 培训系列

Excellence in Academic Publishing Webinars



Textiles and Research 纺织与学术研究

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6 July 2020

中国高校科技期刊研究会, Taylor & Francis 出版集团
Society of China University Journals, Taylor & Francis Group



The Textile Institute 英国纺织学会

- The Textile Institute was founded in 1910 to promote professionalism within the industry and has always had a global focus
- Received Royal Charter in 1925
- Amongst its first activities was the inclusion of a journal, The Journal of The Textile Institute first published in 1910 and the first world conference also held in 1910 where like minded people could share their research and innovations
- Today the Institute has 5000 individual and company members in 80 countries around the world
- 英国纺织学会成立于1910年，是一个世界知名的行业学会，旨在促进行业内的专业化发展。
- 1925年获得英国皇家特许
- 《英国纺织学会会刊》的第一期出版于1910年，同年该学会举办了首届国际会议。在会议上，志同道合的人们可以分享他们的研究成果和创新思想。
- 如今，该协会在全球80个国家拥有5000名个人和公司会员



The Global Textile Industry an Overview 全球纺织业概况

- Textiles is one of the largest global industries with an estimated value of US\$3,000 trillion across the textile and apparel supply chain globally
- 纺织业是全球最大的产业之一。据估计，全球纺织和服装供应链价值达3000万亿美元。
- The textile and garment industry employs up to 75 million people globally and contributes 2% of gross domestic product
- 纺织业和服装业在全球雇佣了7500万人，贡献了国内生产总值的2%
- Demand for textiles grows year on year and expansion is likely to occur with the current Covid-19 pandemic with increased demand for medical textiles and PPE
- 对纺织品的需求逐年增长。在当前Covid-19全球大流行的情况下，医用纺织品和个人防护装备的需求增加，纺织品的需求可能会再次扩大。
- Currently 40% of all global imported textile goods are from China, China's textile production accounts for nearly 54% of the world's total production
- 目前，全球40%的进口纺织品来自中国，中国的纺织品产量占世界总产量的近54%



纺织品产量

Textile Production	
Country	%
China	50.20%
India	6.90%
United States	5.30%
Pakistan	3.60%
Brazil	2.40%
Indonesia	2.40%
Taiwan	2.30%
Turkey	1.90%
South Korea	1.80%
Thailand	1.10%
Mexico	0.90%
Bangladesh	0.80%
Italy	0.80%
Russia	0.70%
Germany	0.50%
Others	18.40%
Total	100%

服装产量

Garment Production	
Country	%
China	47.20%
India	7.10%
Pakistan	3.10%
Brazil	2.60%
Turkey	2.50%
South Korea	2.10%
Mexico	2.10%
Italy	1.90%
Malaysia	1.40%
Taiwan	1.40%
Poland	1.40%
Romania	1.20%
Indonesia	1.10%
Bangladesh	1.00%
Thailand	1.00%
Others	22.70%
Total	100%

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The Negative Impact of The Textile Industry 纺织业的负面影响

- There has been much publicity about the negative aspects of the textile industry in recent years, mainly the high impact on the demand for textiles and the environmental and human cost of over production
- 近年来，人们对纺织业的负面影响进行了大量宣传，主要是对纺织品需求的严重影响以及过度生产的环境和人力成本
- Second to oil the textile industry is the largest polluter in the world, with the apparel industry alone generating the equivalent of 3.3 billion tons of carbon dioxide annually
- 纺织业是世界上第二大的污染者，仅次于石油，仅服装业每年就产生相当于33亿吨的二氧化碳
- The textile industry is one of the top 3 water wasting industries globally for example China discharges over 2.5 billion tons of wastewater every year. It takes 5,000 gallons of water to produce 1 t-shirt and 1 pair of jeans
- 纺织业是全球三大耗水行业之一，中国每年排放的废水超过25亿吨。生产一件t恤和一条牛仔裤需要5000加仑的水
- In Hong Kong alone 253 tons of textile is sent to landfill every day
- 仅在香港，每天就有253吨纺织品被送往垃圾填埋场
- 95% of textiles in landfill could be recycled
- 垃圾填埋场的25种纺织品可以回收利用



The Need for Research 学术研究的需求

- Research is key to development and change within the textile industry, to futureproof, look forward and support the applied industries reliant on textiles
- 学术研究是纺织行业发展和变革的关键，是证明、展望和支持依赖于纺织的应用行业的未来。
- Significant growth in areas such as geotextiles, nano, medical, automotive, personal protective equipment, smart, composites and aerospace are all dependent on the global research community coming together to publish their works and keep a worldwide dialogue open
- 纺织业在土工织物、纳米材料、医疗、汽车、个人防护设备、智能材料、复合材料和航空航天等领域取得了显著的增长，这些领域都有赖于全球研究团体的共同努力、共同出版研究成果，并保持全球范围内的开放对话。
- The textile industry needs to look to the past and understand its wider impact and through concentrated effort can reduce and reverse some of the environmental damage already done and create a sustainable future
- 纺织工业需要回顾过去，了解其广泛的影响，通过努力可以减少和扭转已经造成的一些环境破坏，并创造一个可持续的未来。



Strengths in Academic Research 学术研究优势

- Textiles is the fundamental science of how molecules and materials form fibres and are engineered into textile structures to achieve various functions to meet the needs of human beings in terms of survival, healthcare, protection, physiological and psychological comfort
- 纺织品是一门基础科学，研究分子和材料如何制成纤维并被设计成纺织品结构以实现各种功能，满足人类在生存、保健、保护、生理和心理舒适方面的需求。
- biomedical textiles; protective textiles; digital apparel engineering and smart e-textile fashion
- 生物医学纺织品;防护纺织品、数字服装工程与智能电子纺织时尚
- Advanced engineering solutions and technologies have been researched, invented and developed to create novel textile materials for making lives more comfortable and safe such as protective clothing for defence, exploration of space, engineering bridges, designing smart cars, airplanes and high speed trains, manufacturing smart wearables, producing textile implants and scaffolds to fix sick or damaged organs and tissues: textiles touch us all
- 研究、发明和开发先进的工程解决方案和技术，以创造新型纺织材料，使人们的生活更加舒适和安全。如防护服、太空探索、桥梁工程、设计智能汽车、飞机和高速列车、制造智能可穿戴设备、用于修复疾病或受损器官和组织的纺织植入物和支架等：纺织品触及我们所有人。

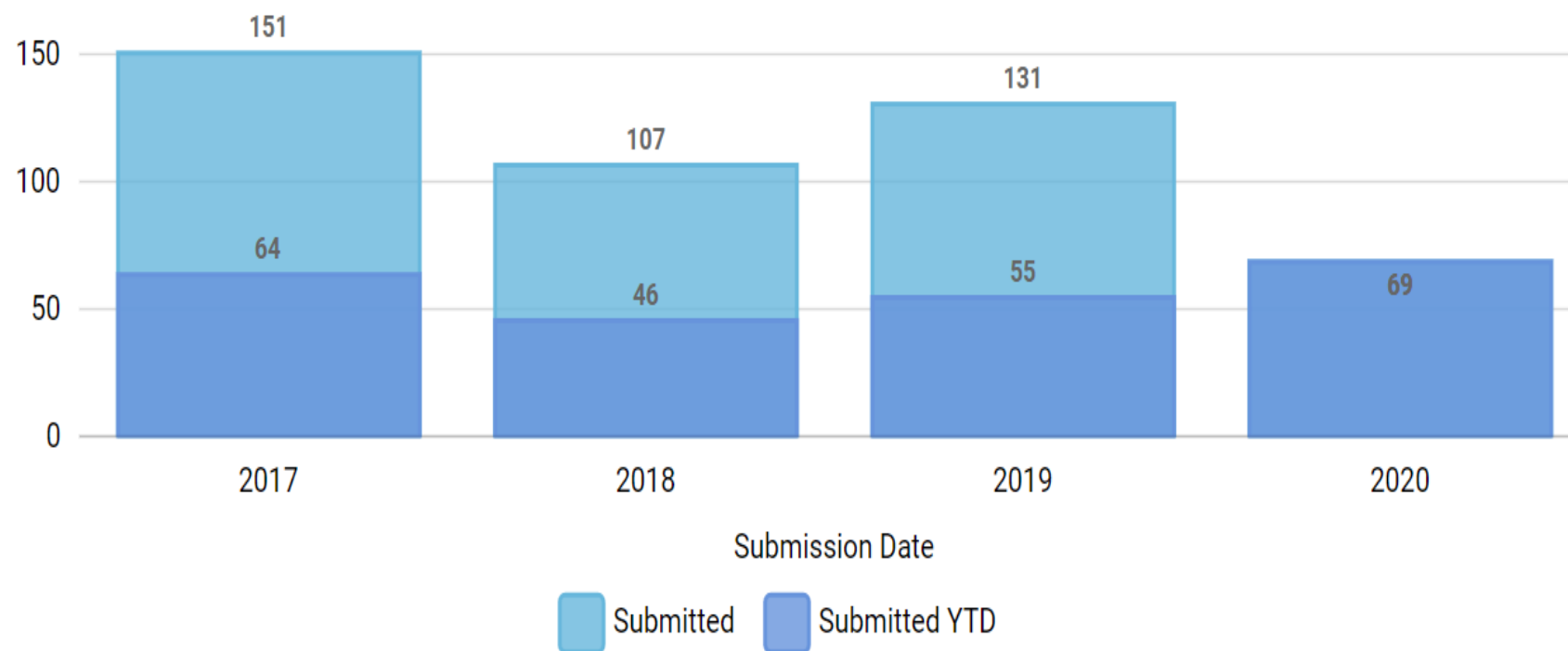


The Textile Institute and China 英国纺织学会与中国

- The Textile Institute has a Section in China, based at Wuhan Textile University and a long established Section in Hong Kong SAR 英国纺织学会在中国大陆设有分部，设在武汉纺织大学，另有分部设在香港。
- The Textile Institute accredits courses at Wuhan Textile University and the Hong Kong Polytechnic University 英国纺织学会在武汉纺织大学和香港理工大学开设了相关课程。
- The Textile Institute has had a number of conferences in China including those held at Donghau University Shanghai, Beijing, Wuhan and Hong Kong SAR 英国纺织学会在中国举办过多次会议，包括在上海、北京、武汉和香港特区举办的会议。
- The Journal's Editors in Chief are both Chinese Prof X Wang Pro Vice-Chancellor (Future Fibres), Deakin University, Australia and Dr X Chen, Reader in Textile Engineering and Materials, Department of Materials, The University of Manchester, UK 《英国纺织学会会刊》的主编是两位华人，澳大利亚迪肯大学的副校长Xungai Wang教授（未来纤维）和英国曼彻斯特大学材料系纺织工程与材料 X Chen博士担任

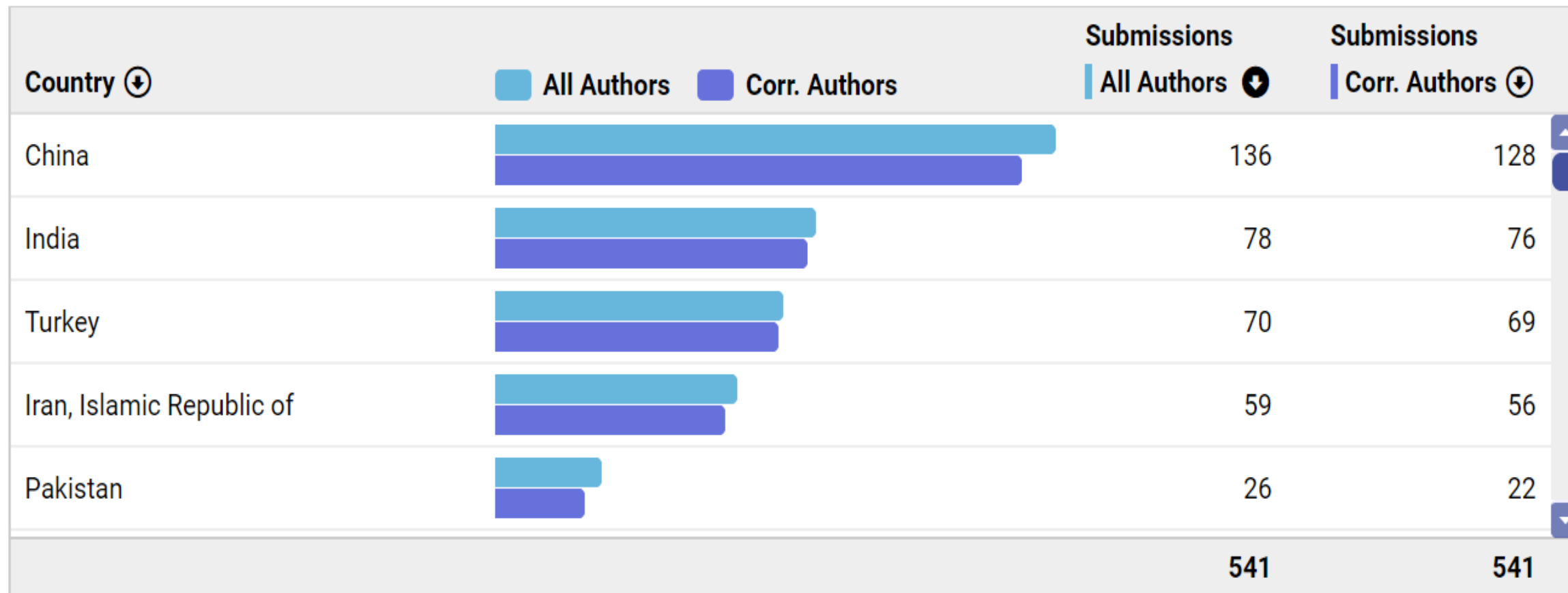


The Journal of The Textile Institute submissions from China and Hong Kong SAR 2017 to 2020 (year to date) 来自中国大陆和香港的稿件



The Journal of The Textile Institute submissions 2019

2019年《英国纺织学会期刊》投稿情况



The Future of Academic Research in Textiles

纺织专业学术研究的未来

- A global network of authors, researchers, reviewers, editors and readers 来自全球的作者、研究人员、审稿人、编辑和读者
- Scholarly collaboration 学术合作
- Continue to educate, inform decisions and innovate 继续教育、决策和创新
- Availability v's Accessibility 可用性 VS 可访问性
- Translation 可转化性
- Retaining a strong peer review process 保持严格的同行评议过程
- Looking beyond the traditional paper journal 超越传统的纸质期刊

