

CURRICULUM VITAE

Name, Surname.....: **Prof. Dr. Ali Demir**
Date of Birth.....: 1 November 1959, Konya
Nationality.....: Turkish
Home Address.....: Kısıklı Mahallesi, Bahararkası Sokak, Önalın Sitesi, No: 15, E Blok, D:10, Üsküdar, İSTANBUL - TURKEY
Tel (Work).....: **Direct:** +90.212.245 03 60, +90.212.293 13 00 / 2682
Tel (Mobile): +90.532.252 02 75
Fax (Work).....: +90.212.245 03 60
e-mail.....: ademir@itu.edu.tr
demir.ali.tr@gmail.com
Marital Status.....: Married
Current Work.....: **Lecturer Professor at**
Istanbul Technical University
Faculty of Mechanical Engineering
Department of Textile Engineering
Gümüşsuyu – 34437 İstanbul
Languages spoken English, German

EDUCATION AND CERTIFICATES

- 1977-1982** Graduate studies (Bsc) at İstanbul Technical University, Maçka Mechanical Engineering Faculty. Graduated on June Haziran 1982, with a GOOD (69.4%) degree and obtained the title of **Machine Engineer**.
- 1982-1984** Prost graduate studies (MSc) at İstanbul Technical University, Institute of Science on the subject of Design Engineering. Complete on March 1984, with a VERY GOOD (89.1%) degree and obtained **MSc Degree in Design Engineering**.
- April-September1984** Full time English Language studies at The Cambridge Centre for Language Studies, Cambridge, England.
- 1984-1987** PhD studies at Loughborough University of Technology, Department of Mechanical Engineering, England; Completed the PhD stues on December 1987 and obtained the title of **Doctor of Philosophy (PhD)**.
- September-1988** Turkish Higher Education Council (YÖK) has granted the title of **Associate** Professorship for his studies in Yarn Technology.
- May-1989** The Textile Institute, Manchester, England has granted him the title of **Licentiate of The Textile Institute (LTI)**.
- 27 April 1995** İstanbul Technical University has granted him the title of **Professorship in Textile Engineering**.

INDUSTRIAL AND PROFESSIONAL EXPERIENCES

- Summer 1979** Summer training at the Repair and Maintenance Workshops of Department of Soil and Settlement of The Urban Development Ministry, Konya.
- Summer 1980** Summer training at the Repair and Maintenance Workshops of Department of Soil and Settlement of The Urban Development Ministry, Konya.
- 1982-1984** Part time consultant to Shot Gun Manufacturing Corporation, Beyşehir, Konya.
- 1982-1984** Post graduate studies at İstanbul Technical University, Institute of Science on the subject of Design Engineering.
- 1984-1987** PhD studies at the Department of Mechanical Engineering of Loughborough'da Loughborough Univerity of Technology, England on the subject of "**The Air- jet Texturing Process with Particular Reference to the Nozzle Design and Improved Test Methods**". This studies have been carried out with the scholarship of the Turkish Education Ministry.
- 1988-1990** Post Doctoral Studies at Department of Mechanical Engineering of Loughborough'da Loughborough Univerity of Technology, England on a Research project supporte by English Research and Development Council (SERC) and Rieter-Scragg Ltd. on the subject of "**Improvements to the Rieter- Scragg Mingling Nozzles used on the False-twist Filament Yarn Texturing Machines**". During this research the Department of Mechanical Engineering has granted the title of **Research Fellow**.
- February 1988** Practical training on the false-twist texturing machine manufactured by Rieter-Scragg Ltd., Macclesfield-England.
- September 1988** Appointed as a Consultant to the Publication Committee of the Turkish journal **Tekstil & Teknik** published in İstanbul.
- 1991-1992** Work as a **Project Manager** at Heberlein Maschinenfabrik A.G., Wattwil-Switzerland on the development of a special air-jet to eliminate the twist-liveliness of the false-twist textured polesyer yarns during their production. In addition to this, the work also involved the development of improved intermingling jets as well as on-line quality
- Dec. 91 - Feb. 92** Compulsary Military training at 58. Topçu Er Eğitim Tuğayı, Burdur, Turkey.
- 1.01.1993 -27.04.1995** **Associate Professorship** at the Department of Textile Engineering of Istanbul Technical University. Education and research interests are primarily focused on the subjects of Synthetic filament yarn production and texturing technologies as well as Weaving machines.
- July 1993 - May 1994** Acted as a **Head of Textile Sciences Division** of the Department of Textile Engineering of Istanbul Technical University.
- 23.8 - 3.9 1993** Industrial visit to **Lindauer Dornier GmbH**, Lindau-Germany, to train the weaving technology as well as the manufacturing technologies of the weaving machines.
- 13.9 - 17.9 1993** Industrial visit to **Picanol**, Ieper-Belgium to train on the weaving technology as well as the manufacturing technologies of the weaving machines.

29.8 - 15.9 1994	Industrial visit to Sulzer-Rüti , Rüti-Switzerland to train on the weaving technology as well as the manufacturing technologies of the weaving machines.
19.9 - 20.9 1994	Industrial visit to Barmag GmbH , Remscheid-Germany to train on the sythetic filament spinning and texturing machinery.
27 April 1995 -	Appointed as a Professor in Textile Engineering the Department of Textile Engineering of Istanbul Technical University.
1 Jan. 1996 – 31 Dec. 2003	Technological Consultancy to ERBEL Mümessillik A.Ş. for the agency of Rieter, for filament yarn spinning, texturing and twisting machines.
Dec. 1999 – Dec. 2000	Technological Consultancy to AKTEKS A.Ş. in Gaziantep for BCF yarn production and processing.
Nov. 2001 – June 2004	Technological Consultancy to INSA A.Ş. in İstanbul for POLYAMIDE yarn production and texturing.
June 2004 – Cont.	Technological Consultancy to TEPAR A.Ş. in İstanbul for POLYESTER yarn texturing.
June 2004 – April 2008	Technological Consultancy to PROSES A.Ş. in Bursa for dyeing machinery development and manufacturing.
June 2007 – Cont.	Technological Consultancy to GAP-GÜNEYDOĞU-TEKSTİL Sanayi ve Ticaret A.Ş. in Istanbul&Malatya for denim fabric weaving, finshing and apparel manufacturing.
November 2007 – Cont.	Coordinator for Turkish Textile Technology Platform sponsored by ITKIB (Istanbul Textile and Apparel Exporters' Union)
March 2008 – Cont.	Consultant to TÜBİTAK-TEYDEB MAKİTEG (Makina ve İmalat Teknolojileri Gurubu)
August 2008- September 2010	Dean of the Institute of Science and Technology, ITU.
September 2010- March 2015	President of The Measurement Selection and Placement Centre of Turkey (ÖSYM)-Ankara

LIST OF PUBLICATIONS

- 1.** A. DEMİR, "The Air-jet Texturing Process with Particular Reference to the Nozzle Design and Improved Test Methods", PhD Thesis, Loughborough University of Technology, 1987.

SUMMARY

The air-jet yarn texturing process has made enormous progress since its industrial introduction some 30 years ago. However, major drawbacks such as high compressed air consumption and the low process speeds still hinder the long predicted breakthrough.

This work deals with the problems of the texturing nozzles predominantly from an experimental view point and an improved description of the air flow through such nozzles is given. Several nozzles which provide better texturing conditions at lower air pressures i.e., lower air consumption, have been designed by the author. Preliminary investigations have utilised scaled-up models and prototypes, manufactured by Heberlein Maschinenfabrik A.G. of Switzerland, and these have successfully produced textured yarns with great reductions in compressed air consumption.

An improved understanding of the wetting mechanism on the process has been established and it is concluded that its effect merely reduces the interfilament friction thereby resulting in an enhanced separation of the filaments.

Yarn tests are reviewed. Special emphasis is given to instability and a standard test method is suggested. All 'off-line' test methods are shown to be time consuming and not to provide immediate feed back to the process. The possibility of an 'on-line' instability measuring technique is demonstrated via a microcomputer controlled unit.

The effects of the process parameters and the properties of supply yarns on the air-jet textured yarns are ascertained to provide a reference information to current air-jet texturisers and other researchers.

The thesis claims originality for the nozzles designed, and for the 'on-line' instability concept and relevant system and therefore it is likely that some moratorium conditions may be necessary prior to preserve confidentiality at least until advice in patent protection has been sought.

- 2.** A. DEMİR, M. ACAR and G. R. WRAY, "Instability Tests for Air-jet Textured Yarns", Textile Research Journal, 1986, Vol. **56/3**, 191- 202.
- 3.** A. DEMİR, M. ACAR and G. R. WRAY, "An Improved Understanding of Modern Techniques for the Air-jet Texturing of Synthetic Yarns" Paper presented in The 4th International Textile Symposium, Izmir, Turkey, 15 October 1986.
- 3b.** Repeat Publication, Tekstil & Teknik, Aralık 1988, Vol. **3/35**, 59-83 (15 Sayfa).
- 4.** A. DEMİR, M. ACAR and G. R. WRAY, "Air-jet Textured Yarns: The Effects of Process and Supply Yarn Parameters on the Properties of Textured Yarns", Textile Research Journal, 1989, Vol. **58/6**, 318-329.

5. **A. DEMİR**, M. ACAR and G. R. WRAY, "Spun-like Polypropylene Filament Yarns Produced by the Air-jet Texturing Process" Paper presented in The 4th International Conference on Polypropylene Fibres and Textiles, Nottingham, 23-25 September 1987.
6. **A. DEMİR** and G. R. WRAY, "An Overview of the Air-jet Texturing Process", Air-jet Texturing: Present and Future Conference, 8-9 October 1987, Loughborough.
7. **A. DEMİR**, M. ACAR and R. K. TURTON, "A Basic Understanding of the Air Flow in Texturing Nozzles", Air-jet Texturing: Present and Future Conference, 8-9 October 1987, Loughborough.
- 7b. Repeat Publication, Melliand Textilberichte with English Edition, 1988, Vol. 4, 233-241, (E126-E129).
8. M. ACAR and **A. DEMİR**, "Explanation of How and Why Yarn Wetting Improves the Air-jet Texturing Process", Air-jet Texturing: Present and Future Conference, 8-9 October 1987, Loughborough.
- 8b. Repeat Publication, Chemiefasern Textilindustrie, April, 1989, Vol. 39/91, 356-374, (E43-E45).
9. **A. DEMİR** and M. ACAR, "Instability Measuring Techniques for Air- jet Textured Yarns", Air-jet Texturing: Present and Future Conference, 8-9 October 1987, Loughborough.
10. **A. DEMİR**, "Effects of Process and Supply Yarn Parameters on Textured Yarn Properties, Air-jet Texturing: Present and Future Conference, 8-9 October 1987, Loughborough.
11. G. R. WRAY, **A. DEMİR**, and M. ACAR, "Yarn Testing Apparatus", **UK Patent Application No. 8723461**, Filing Date 6 October 1987.
12. **A. DEMİR**, "Recent Developments in Filament Yarn Texturing Techniques: ITMA 1987" Tekstil & Teknik, Nisan 1988, 82-90 (5 Sayfa).
13. **A. DEMİR**, "Simplified Instability Measurement Devices for Air-jet Textured Yarns", Textile Research Journal, (Communication to the Editor), August 1989, Vol. 59, No:8, 492-494.
14. **A. DEMİR**, M. ACAR and G. R. WRAY, "Development of an "On-line" Quality Control Technique for the Air-jet Texturing Process", 4th International Textile Symposium, 25-27 Ekim 1988, Bursa, Türkiye.
15. **A. DEMİR**, "A Study of Air-jet Texturing Nozzles: The Effects of Nozzle Configuration on the Air Flow", Transactions of ASME: Journal of Engineering for Industry, February 1990, Vol. 112, 97-104.
16. M. ACAR and **A. DEMİR**, "Textile Engineering and Machinery Research and Development at Loughborough University of Technology", Tekstil & Teknik, Mayıs 1988, Yıl 4, Sayı 40, 141-143, ve Haziran 1988, Yıl 4, Sayı 41, 50-51.
17. **A. DEMİR**, "Yarn Joining Methods", Tekstil & Teknik, Eylül 1989, 62-67, (İngilizce 168-172)

- 18.** M. ACAR, A. DEMİR and G. R. WRAY, "Key to the Successful Air-jet Texturing Process: Purpose Made Supply Yarns", In: Fibres- Technological Solutions for Textile Problems, 1989 Textile Institute Fibre Science Group Conference, 12-13 September 1989, Coventry, U.K.
- 19.** A. DEMİR, "Rearrangements of filament yarns by Air-jets", In: Fibres-Technological Solutions for Textile Problems, 1989 Textile Institute Fibre Science Group Conference, 12-13 September 1989, Coventry, U.K.
- 20.** A. DEMİR, M. ACAR, "An Insight into the Intermingling Process", In: Textiles: Fashioning the Future, 1989 Textile Institute World Conference, 16-20 October 1989, Nottingham, U.K.
- 21.** A. DEMİR, and G. R. WRAY, "Evolution of the Air-jet Texturing Process", In: Air-jet Texturing-Mingling/Interlacing, Second International Conference of Department of Mechanical Engineering, Loughborough University of Technology, 27-29 September 1989, Loughborough, U.K.
- 22.** A. DEMİR and R. K. TURTON, "Air Flow in Texturing and Intermingling Nozzles: Similarities and Differences", In: Air-jet Texturing-Mingling/Interlacing, Second International Conference of Department of Mechanical Engineering, Loughborough University of Technology, 27-29 September 1989, Loughborough, U.K.
- 22b.** Repeat Publication, Textile Asia, August 1990, Vol: **21**, No: 8, 77-93.
- 23.** A. DEMİR, "Mingling/Interlacing: A Broad Study", In: Air-jet Texturing-Mingling/Interlacing, Second International Conference of Department of Mechanical Engineering, Loughborough University of Technology, 27-29 September 1989, Loughborough, U.K.
- 23b.** Repeat Publication, Textile Asia, September 1990, Vol. **21**, No: 9, 114-122.
- 24.** R. DORNEY, A. DEMİR, and M. ACAR, "A Study of Mingling Nozzle Noise Characteristics", In: Air-jet Texturing-Mingling/Interlacing, Second International Conference of Department of Mechanical Engineering, Loughborough University of Technology, 27-29 September 1989, Loughborough, U.K.
- 25.** A. DEMİR and M. ACAR, "Yarn Wetting Mechanism and Suitable Supply Yarns for Air-jet Texturing Process", In: Air-jet Texturing-Mingling/Interlacing, Second International Conference of Department of Mechanical Engineering, Loughborough University of Technology, 27-29 September 1989, Loughborough, U.K.
- 26.** A. DEMİR, "Textured Yarn Test Instruments Developed at Loughborough, In: Air-jet Texturing-Mingling/Interlacing, Second International Conference of Department of Mechanical Engineering, Loughborough University of Technology, 27-29 September 1989, Loughborough, U.K.
- 26b.** Repeat Publication, Melliand Textilberichte, 9/1990, 660-665, (E303-E305).
- 27.** A. DEMİR and M. ACAR, "Tekstil Endüstrisinde İşlem Araştırmaları için Yüksek Hızlı Fotoğrafçılık Teknikleri (High-speed Photographic Techniques for Process Investigations in Textile Industry)", Tekstil ve Makina, Yıl 4, V. Tekstil Sempozyumu Özel Sayısı, Kasım 1990, 144-149.

- 28.** A. DEMİR, "Einrichtung an einer Falsechdrall-Texturiervorrichtung zum Verringern den Torsionmoments im texturierten Garn", **Swiss (CH) Patent Application, 12 September 1992, Nr. 2 717/91-3.**
- 28b.** Patent repeat application, **Korea, 3 September 1992, Nr. 15994/1992.**
- 28c.** Patent repeat application, **Taiwan, 16 July 1992, Nr. 81105624.**
- 28d.** Patent repeat application, **Japan, 10 September 1992, Nr. 242 007/92.**
- 28e.** Patent repeat application, **Europe for England, France, Italy and Germany**
- 28f.** Patent repeat application, **the U.S.A, 19 August 1992, Nr. 931,953.**
- 28g.** Patent repeat application, **Russia, 11 September 1992, Nr. 5052680.12.**
- 28h.** Patent repeat application, **China, 11 September 1992, Nr. 92 1 10666.1.**
- 29.** A. DEMİR, "Torque-free False-twist Textured (FTT) Yarn Production", Chemiefasern/ Textilindustrie, Vol. **42/49**, January 1992, (English E3-E5), 36-40.
- 29b.** Repeat Publication, Mittex, Vol. **4/92**, 4-8.
- 29c.** Repeat Publication, Man-Made Fibre, Year Book 1992, Published by Chemiefasern & Textilindustrie, 82-85.
- 29d.** Repeat Publication, Tekstil & Teknik, Ocak 1993, 14-20, (İngilizce 99-103).
- 29e.** Repeat Publication, International Fiber Journal, July 1993, 64-72.
- 30.** A. DEMİR, H. M. Behery, Synthetic Filament Yarn Texturing Technology, Prentice Hall Inc., New York 1997.
- 31.** A. DEMİR, "Microfibre Intermingling", In: "Fibres-92" Conference of The Textile Institute, Fibre Science Committee, 9-10 December 1992, Leeds, U.K.
- 31b.** Repeat Publication, Textile Asia, May 1993, 77-79.
- 31c.** Repeat Publication, JTN, September 1993, 54-55.
- 32.** A. DEMİR, "Verfahren zum Überwachen von Eigenschaften eines Multifilamentgarns, in welchem in einer Verwirbelungsdüse Verwirbelungsstellen erzeugt werden", **Swiss (CH) Patent Application, 29 September 1992, 3039/92-8.**
- 33.** A. DEMİR, W. Hug, "Garnbehandlungsvorrichtung zum Verwirbeln und/oder Blastexturieren von Multifilamentgarnen", **Swiss (CH) Patent Application, 9 November 1992, Nr. 3461/92-6.**
- 34.** A. DEMİR, "Vorrichtung zum Behandeln wenigstens eines laufenden Multifilamentgarns", **Swiss (CH) Patent Application, 11 May 1993, Nr. 1 436/93-4.**
- 34b.** Patent repeat application, **Taiwan**
- 34c.** Patent repeat application, **Russia**
- 34d.** Patent repeat application, **USA**

- 34c.** Patent repeat application. **European (CH, DE, FR, GB, IT, LI) Patent Application, 20 Apr, 1994, Nr. 94810219.9-**.
- 35.** A. DEMİR, "Filament İplik Tekstüresi ve Hava ile Karıştırma İşlemlerinde Son Gelişmeler", SAGEM: Tekstil Teknolojisinde Son Gelişmeler Semineri, 4-8 Ekim 1993, Bursa - Türkiye.
- 36.** A. DEMİR, "Sentetik İplik Tekstüreciliğinde Son Gelişmeler", II. Uluslararası Çukurova Tekstil Sempozyumu'93, 28-31 Ekim 1993, Adana - Türkiye.
- 36b.** Repeat Publication, Tekstil Maraton, Eylül-Ekim 1993, 42-43.
- 37.** M. KÖSEOĞLU, A. DEMİR, "Dokuma Makinaları" (Ders Notları), İstanbul Teknik Üniversitesi, Makina Fakültesi, Tekstil Mühendisliği Bölümü, İstanbul, Aralık-1993.
- 38.** A. DEMİR, "Microfibres: Production and Potentials in Turkey", The Textile Institute, Fibre Science Group Conference, 'Fibres '94', in Coventry, England, 21-24 March 1994.
- 39.** A. DEMİR, E. SCHWARZ, F. BÖSCH, "Composite Yarn Manufacturing by means of Air-jets", Çukurova Üniversitesi, 15. Yıl Mühendislik Sempozyumu, 4-6 Nisan 1994, Adana - Türkiye.
- 40.** A. DEMİR, "Akışkan Görüntülemeye Gölge Fotoğrafı Tekniklerinin Tekstil Araştırmalarında Uygulamaları", 1. Ulusal Deneysel Mekanik Sempozyumu, 28-30 Eylül 1994, Maçka, İstanbul.
- 41.** A. DEMİR, "Air Interlacing: The Mechanism of Knot Formation" TYAA (Textured yarn Association of America) **Summer Conference**, 21-31 July 1995, South Carolina, USA.
- 42.** S. ZEYDANLI, A. DEMİR, "Sentetik Filament İpliklerde (PA6, PA6.6, PET) Çekim Oranı-İplik Özellikleri İlişkisi" Tekstil & Teknik, Temmuz 1996, 38-44.
- 43.** A. DEMİR, "Environmental Treatment of Filament Yarns by Air-jets", Chemical Fibers International, , October 1996.
- 44.** A. DEMİR and M. ÇİMEN "Torque-Free False-Twist Textured Yarns and De-Torque Mechanism", Chemical Fibers International, , October 1996.
- 45.** A. DEMİR, "En İdeal Askeri Giysi Malzemesi: Polipropilen Mikrofilament İplik", 1. Levazım Sempozyumu, 13-14 Kasım 1996, Küçükalyalı-İstanbul.
- 46.** A. DEMİR, ve S. ALEMDAR, "Krep Tekstüre Teknolojisi", Tekstil Teknoloji, Ocak-Şubat-Mart 1997.
- 47.** A. DEMİR, ve M. GÜNAY, "Dokuma Makinaları için Servomotor Tahrikli Çözümlü Salma Sisteminin Geliştirilmesi", DETMA'1-97: 1. Denizli Tekstil ve Konfeksiyon Makinaları Kongresi, 21-22 Mart 1997, Denizli
- 48.** A. DEMİR, ve M. GÜNAY, "Dokuma Makinalarının Mekatroniği", Tekstil Teknoloji, Nisan 1997.
- 49.** A. DEMİR, "Detorqued False-twist Textured Yarn Production" TYAA (Textured yarn Association of America) **25. Yaz Konferansı**, 24-27 Temmuz 1997, South Carolina, ABD.

50. A. DEMİR, ve S. UNCU., "Development of a Composite Underwear for Sports Activities and Extereme Weather Conditions", Progress-98: International Textile Symposium, 2-5 June 1998, Ivanova-Russia.
51. M. Taşcan, A. DEMİR, 'Behaviour of PP BCF Carpet Yarns', Chemical Fibres International, Setember 1999.
52. A. DEMİR, M. TASCAN, 'PP BCF Yarn Production in Turkey: An Incredible Industry', 38th International Man-Made Fibres Congres, 15 –17 September, Dornbirn, Austria.
53. M. Taşcan, A. DEMİR, 'Polipropilen BCF (Bulked Continuous Filament) Halı İpliği Üretim Teknolojisi ve Özellikleri', I. Ulusal Çukurova Tekstil Sempozyumu, 6-8 October 1999, Adana-Turkey.
54. F. S. KILINÇ, A. DEMİR, 'Pamuk İpliği İşletmelerinde Üretim Ve İşletme Otomasyonunun İşletme Randımanına Etkisi', I. Ulusal Çukurova Tekstil Sempozyumu, 6-8 October 1999, Adana-Turkey.
55. A. DEMİR, F. S. KILINÇ, 'Türkiye'de Tekstil Makinaları İmalatı: Gerçekler, Şanslar ve Geleceği' I. Ulusal Çukurova Tekstil Sempozyumu, 6-8 October 1999, Adana-Turkey.
56. A. DEMİR, M. GÜNAY, 'Tekstil Teknolojisi', İstanbul 2000.
57. E. ÜNSAL VE A. DEMİR, Determination of the Dyeability Properties of Polyester Textured Yarns by TYT (Textured Yarn Tester) Equipment, Chemical Fibres International, February 2001.
58. A. DEMİR, 'DOMOTEX 2001', Tekstil Araştırma Dergisi, 1/2001.
59. A. DEMİR, 'Tekstüre İplik Üretiminde Katma Değer Arttırma Teknikleri; Bölüm 1: Tek İplik ile Fantazi İplik Üretme Teknikleri', Tekstil&Teknik, Nisan 2001.
60. A. DEMİR, and B. Filiz 'Filament İplik Puntalama İşlemi', Tekstil&Teknik, Mayıs 2001.
61. A. DEMİR, "Crimp Formation During Spinning", The Fiber Society 2003 Spring Symposium, ADVANCED FLEXIBLE MATERIALS AND STRUCTURES: ENGINEERING WITH FIBERS, June 30 - July 2, 2003, Loughborough University, UK.
62. A. DEMİR, A.R. TORUN, "Tekstil Üretim Yöntemleri" (Tercüme: B. Wulfhorst, Textilfertigungsverfahren, Hanser Verlag, 1998, Germany), İstanbul 2003.
63. A. DEMİR, "Recent Deveopments In The Field Of Texturing Technologies", International Conference on HIGH PERFORMANCE TEXTILES & APPARELS (HPTEX 2004), July, 7-9, 2004, KTC, Coimbatore – 6, India.
64. A. DEMİR, "Air-Jet Texturing: A Versatile And Fancy Process", 5th International Istanbul Textile Conference, May 18-20, 2005, İstanbul.
65. A. DEMİR, F. Canbolat, "An Approach To Modelling Of Fibre Self Crimping", The Fiber Society 2005 Spring Symposium, May 27 - 29, 2005, St. Gallen, Switzerland.

66. A. DEMİR, “Turkey’s Synthetic Fiber Industry Flourishing”, International Fiber Journal, June 2005, pages 65-74.
67. A. DEMİR, “BCF Yarn Production in Turkey”, International Fiber Journal, November 2005.
68. A. DEMİR, “Sentetik Filament İplik Üretim ve Tekstüre Teknolojileri”, İstanbul, Mart 2006.
69. TURGUTER, U., GÜVENDİ, H. and A. DEMİR, “Effects of Traverse and Yarns Surface Speed on Package Uniformity”, ITC&DC: 3rd International Textile, Clothing and Design Conference, 08-11 October 2006, Dubrownik-Croatia.
70. A. DEMİR, G. S. KOZANOĞLU, M. DAŞDEMİR, “Elektrospinning Yöntemiyle Nanolif Üretim Teknolojisi”, PAGEV-Türkiye Plastik Endüstrisi Kongresi-2006, İstanbul, 28 – 29 Kasım 2006
71. A. DEMİR, G. S. KOZANOĞLU, M. DAŞDEMİR, “Nanofiber Production Technology by Electrospinning Method”, Workshop on Molecular Biomimetics and Bionanotechnology, İTÜ-MOBGAM-12-14 Kasım 2006.
72. A. DEMİR, “Electrospinning Yöntemi İle Nanolif Üretim Teknolojisi”, Uludağ Üniversitesi, Tekstil Mühendisliği Bölümü Semineri, Bursa, 25 Aralık 2006.
73. A. DEMİR, “Electrospinning Yöntemi İle Nanolif Üretim Teknolojisi”, Dokuz Eylül Üniversitesi, Tekstil Mühendisliği Bölümü Semineri, İzmir, 27 Aralık 2006.
74. A. DEMİR, G. S. KOZANOĞLU, M. DAŞDEMİR, “Nanofibre Production Technology by Electrospinning Method”, International Conference of Applied Research on Textile-CIRAT-2, Monastir-Tunus, 30 Kasım – 2 Aralık 2006.
75. M. DAsdemir, G. S. Kozanoglu, M. Topalbekiroglu, A. DEMİR, “Production and Comparison of Solution and Melt Electrospun Thermoplastic Polyurethane Nanofibers”, The Fiber Society 2007 Spring Conference, Greenville, South Carolina, ABD. 23 - 25 Mayıs 2007.
- 75b. Repeat Publication:
<http://www.fibre2fashion.com/industry-article/10/951/production-and-comparison1.asp>
76. A. Kilic, F. Oruc, A. DEMİR, “Effects of Polarity on Electrospinning Process”, Textile Research Journal, 2008, 78; 532.
77. G. S. KOZANOĞLU, M. DAŞDEMİR, A. DEMİR, M. TOPALBEKİROĞLU, “Elektrospinning Yöntemiyle Nanolif Üretim Teknolojisi”, II. Tekstil Teknolojileri Ve Tekstil Makinaları Kongresi 2007, Gaziantep, Kasım 2007.
78. M. DAŞDEMİR, A. DEMİR, M. TOPALBEKİROĞLU, G. S. KOZANOĞLU, “Polimer Eriyiği Ve Çözeltilerinden Oluşturulmuş Nanoliflerin Electrospinning Yöntemiyle Üretimi”, II. Tekstil Teknolojileri Ve Tekstil Makinaları Kongresi 2007, Gaziantep, Kasım 2007.

79. A. DEMİR, M. DAŞDEMİR, G. S. KOZANOĞLU, M. TOPALBEKİROĞLU, “Polimer Eriyiği Ve Çözeltilisinden Oluşturulmuş Nanoliflerin Electrospinning Yöntemiyle Üretimi”, **XI. Tekstil Teknolojisi Ve Kimyasındaki Son Gelişmeler Sempozyumu 2007**, Bursa, Haziran 2007.
80. A. DEMİR, “Mogul – A Global Benchmark for Spunbond and Meltblown”, *International Fiber Journal*, February 2007.
81. A. DEMİR, M. DAŞDEMİR, G. S. KOZANOĞLU, M. TOPALBEKİROĞLU, “Effects of System Parameters on Nanofiber Morphology”, “**III. Uluslararası Teknik Tekstiller Kongresi 2007**”, İstanbul, 1-2 Aralık 2007.
82. E. ÖZNERGİZ, A. DEMİR, U. TURGUTER, “Development of a Novel Air-jet Texturing and Twisting (AJT2) Technology”, **III. Uluslararası Teknik Tekstiller Kongresi 2007**, İstanbul, 1-2 Aralık 2007.
83. A. DEMİR, “Nanoliflerden Oluşturulan Tekstiller Ve Membranlar”, **III. Nanobilim ve Nano Teknoloji, Beyin Fırtınaları Toplantısı**, İstanbul Aydın Üniversitesi, İstanbul, 27-28 Şubat 2008.
84. A. DEMİR, “Research in Turkey for Fibers and Textiles”, **CIRFS Research Committee Meeting**, Brüksel, 18 March 2008.
85. A. ÇELİK, A. DEMİR, Y. BOZKURT, “Intelligent Textiles Based On Flexible Solar Cell Structures”, *International Workshop on Advanced Materials and Devices for Photovoltaic Applications*, METU-ODTÜ, Ankara, 24-25 Nisan 2008.
86. A. DEMİR, M. TAŞCAN, T. GÜMÜŞ, “The Nanofibre Applications For Automotives: Drastic Decrease in Weight via Better Noise Insulation”, **47th DORNBIRN MAN-MADE FIBRES CONGRESS**, Austria, September 17-19, 2008.
87. A. Çelik, A. DEMİR and Y. Bozkurt, “Recent Developments in Flexible Solar Cells”, *Nonlinear Optics and Quantum Optics*, Vol. 00, pp. 1–16
88. A. (Celik) Bedeloglu, A. DEMİR, Y. Bozkurt, N. S. Sariciftci, “A photovoltaic fibre design for smart textiles”, *Textile Research Journal*, 80 (11), 1065-1074, 2010.
89. A. (Celik) Bedeloglu, A. DEMİR, Y. Bozkurt, "Organik Nanomalzemeler Kullanılarak Üretilen Fotovoltaik Tekstil Yapısının Özelliklerinin İncelenmesi", *e-Journal of New World Sciences Academy*, 4/4/495-503/2009, 2009.
90. A. (Celik) Bedeloglu, A. DEMİR, Y. Bozkurt, "Photovoltaic applications for textiles", *Melliand International*, No.5-6/ 2009.
91. A. (Celik) Bedeloglu, A. DEMİR, Y. Bozkurt, N. S. Sariciftci, "A flexible textile structure based on polymeric photovoltaic's using transparent cathode", *Synthetic Metals*, 159 (2009), pp. 2043-2048.
92. A. (Celik) Bedeloglu, A. DEMİR, Y. Bozkurt, Recent Developments in Flexible Solar Cells", *Nonlinear Optics and Quantum Optics*, Vol. 38/ pp. 175-190/2008, 2008.
93. A. (Celik) Bedeloglu, A. DEMİR, Y. Bozkurt, P. Jimenez, W. K. Maser, N. S. Sariciftci, "Photovoltaic Textile Structures With Polymer Based Composite Materials", **48th Dornbirn Manmade Fibers Congress**, AVUSTURYA, Eylül 2009.

94. A. (Celik) Bedeloglu, **A. DEMİR**, Y. Bozkurt, "Polymer Based Organic Solar Cells for Energy Generating Textiles", 5th Nanoscience and nanotechnology Conference (NanoTR5), ESKİŞEHİR, Haziran 2009.
95. **A. DEMİR**, A. (Çelik) Bedeloğlu, K. Tütüncü, "Nanokaplama ile Fotovoltaik Lif Geliştirme", İTÜ, Nano-Bilim ve Nano-Teknoloji Çalıştayı, İstanbul, Şubat 2009.
96. A. (Celik) Bedeloglu, **A. DEMİR**, Y. Bozkurt, "Photovoltaic Textiles", 47th Dornbirn Man-made Fibers Congress, AVUSTURYA, Eylül 2008.
97. A. (Celik) Bedeloglu, **A. DEMİR**, Y. Bozkurt, "Intelligent Textiles Based On Flexible Solar Cell Structures", NANOMAT 2008, ANKARA, Nisan 2008.
98. A. (Celik) Bedeloglu, **A. DEMİR**, Y. Bozkurt, "Photovoltaic applications for Textiles", III. International Technical Textiles Congress, İSTANBUL, Aralık 2007. III. International Technical Textiles Congress Proceeding Book, 291-299.
99. A. (Celik) Bedeloglu, **A. DEMİR**, Y. Bozkurt, "Recent Developments in Flexible Solar Cells", IXth International Conference on Frontiers of Polymers and Advanced Materials, POLONYA, Temmuz 2007.
100. N. Uçar, E. Beskisiz and **A. DEMİR**, "Design of a Novel Filament with Vapor Absorption Capacity Without Creating Any Feeling of Wetness", Textile Research Journal, 79, 17, 1539-1546, 2009.
101. E. Beskisiz, N. Uçar, **A. DEMİR**, "The Effect of Super Absorbent Fibers on the Washing, Dry Cleaning and Drying Behaviour of Knitted Fabrics", Textile research Journal, 79,16, 1459-1466, 2009.
102. N. Uçar, **A. DEMİR**, M. Uçar, E. Beskisiz, "Filament Üretimi Esnasında Filament İçine yada Kanalına Katı ve Sıvı Malzemelerin Yerleştirilmesine Yönelik Yeni Bir Çalışma", Tekstil ve Konfeksiyon, Sayı 2, 83-87, 2009.
103. N. Uçar, **A. DEMİR**, Ç. Onbaşı, B. Şen, Ö. Pehlivaner, O. Koç, "Yeni Geliştirilmiş bir Lifin Su Buharı Emme Performansı", Tekstil ve Konfeksiyon dergisinde basılmak üzere kabul edilmiştir.
104. N. Uçar, **A. DEMİR**, A., E. Beskisiz, Novel Filament For High Vapour Absorption Without Feeling Any Wetness, AUTEX 2009 World Textile Conference, 26-28 Mayıs 2009, İzmir, Türkiye.
105. N. Uçar, **A. DEMİR**, E. Beskisiz, Design and Development of Novel Filament that has ana Ability of Water and Vapour Absorption Properties without Creating any Feeling of Wetness, 48 th Man Made Fiber Congress, 16-18 September 2009, Dornbirn-Austria.
106. N. Uçar, E. Beskisiz, **A. DEMİR**, Islaklık Hissi Oluşturmayan Su ve Su Buharı Emebilen Özel Bir Lifin Tasarımı, Örme İhtisas dergisi, Eylül-Ekim, Yıl 6, Sayı 31, 24-32, 2008.
107. BORAZAN İSMAİL, BEDELOĞLU AYŞE, DEMİR ALİ (2015). The effect of MWCNT-PEDOT:PSS layer in organic photovoltaic fiber device. Optoelectronics and Advanced Materials-Rapid Communications, 9(3-4), 347-352.
108. Bedeloglu Ayse, Jimenez Pablo, Demir Ali, Bozkurt Yalcin, Maser Wolfgang, Sariciftci Niyazi Serdar (2011). Photovoltaic textile structure using polyaniline/carbon nanotube composite materials. Journal of the Textile Institute,

102(10), 857-862.,

- 109.**(Celik) Bedeloğlu Ayşe, Demir Ali, Bozkurt Yalcin, Sarıciğci Niyazi Serdar (2010). Photovoltaic properties of polymer based organic solar cells adapted for non-transparent substrates. *Renewable Energy*, 35(10), 2301-2306.,
- 110.**Bedeloğlu Ayşe Celik, Koeppe Robert, Demir Ali, Bozkurt Yalcin, Sarıciğci Niyazi Serdar (2010). Development of energy generating photovoltaic textile structures for smart applications. *Fibers and Polymers*, 11(3), 378-383.
- 111.**Bedeloğlu A., Demir A., Bozkurt Y., Sarıciğci N. S. (2010). A Photovoltaic Fiber Design for Smart Textiles. *Textile Research Journal*, 80(11), 1065-1074.,
- 112.**Elif Bahar, Nuray Ucar, Aysen Onen, Youjiang Wang, Mustafa Oksuz, Onur Ayaz, Mehmet Ucar, Ali Demir, Thermal and Mechanical Properties of Polypropylene Nanocomposite Materials Reinforced With Cellulose Nano Whiskers, *Journal of Applied Polymer Science*, Vol. 125, 2882–2889 (2012).
- 113.**BEDELOĞLU, A. DEMİR, Y. BOZKURT (2010). Fotovoltaik Teknolojisi Türkiye ve Dünyadaki Durumu, Genel Uygulama Alanları ve Fotovoltaik Tekstiller. *Teknolojik Araştırmalar, Tekstil Teknolojileri Elektronik Dergisi*, 4(2), 43-58.
- 114.**Ayşe Celik Bedeloğlu, Gökçenur Sağlam, İsmail Borazan, H. Levent Hoşgun, Nimet Canlı Yılmaz, Ali Demir, 2015, The effect of the molar ratio of PVP to AgNO₃ on Synthesis of AgNWs, The effect of the molar ratio of PVP to AgNO₃ on Synthesis of AgNWs, 42nd IEEE Photovoltaic Specialists Conference (PVSC-42) 2015, New Orleans, USA
- 115.**İsmail Borazan, Ayşe Celik Bedeloğlu, Ali Demir, David Carroll, 2015, The Effect Of Acid Treatment Of PEDOT:PSS Anode For Organic Solar Cells, The Effect Of Acid Treatment Of PEDOT:PSS Anode For Organic Solar Cells, 42nd IEEE Photovoltaic Specialists Conference (PVSC-42) 2015, New Orleans, USA
- 116.**Z. İslak Cin, N. Yılmaz Canlı, İ. Borazan, A. Demir, A. Celik Bedeloğlu, 2015, Physical and Electrical Characteristics of Low-Temperature Annealed Zinc Oxide Thin Films for Flexible Polymer-Based Organic Solar Cell, 1st International Conference on Organic Electronic Material Technologies (OEMT2015)- March 25-28, 2015, Elazığ
- 117.**Ayşe Celik Bedeloğlu, İsmail Borazan, Ali Demir, 2014, Fiber-shaped photovoltaics for energy generation, *Türk-Alman Enerji Teknolojileri Konferansı*, Ankara, 13-15 Ekim 2014
- 118.**BEDELOĞLU, İ. BORAZAN, A. DEMİR, 2014, Utilization of carbon nanotubes in photovoltaic fiber production, 14. Ulusal ve 1. Uluslararası Tekstil Teknolojisi ve Kimyasındaki Son Gelişmeler Sempozyumu, Bursa Association of Academic Chambers Campus, Bursa
- 119.**Bedeloğlu, İ. Borazan, A. Demir, 14. Ulusal ve 1. Uluslararası Tekstil Teknolojisi ve Kimyasındaki Son Gelişmeler Sempozyumu, 14. Ulusal ve 1. Uluslararası Tekstil Teknolojisi ve Kimyasındaki Son Gelişmeler Sempozyumu konferansı dahilinde "14. Ulusal ve 1. Uluslararası Tekstil Teknolojisi ve Kimyasındaki Son Gelişmeler Sempozyumu 14. Ulusal ve 1. Uluslararası Tekstil Teknolojisi ve Kimyasındaki Son Gelişmeler Sempozyumu Bildiri Özet Kitabı" bildiri kitapçığındaki "Utilization of carbon nanotubes in photovoltaic fiber production", 135-136 pp., Bursa Association of Academic Chambers Campus, Bursa, 2013
- 120.**İ. Borazan, A. Bedeloğlu, D. Özdemir, A. Demir, 51st Dornbirn Man-Made Fibers Congress konferansı dahilinde "51st Dornbirn Man-Made Fibers Congress CD" bildiri kitapçığındaki "Photovoltaic Fibre Design With Vacuum-free Techniques for Power Generating Textiles", - pp., AVUSTURYA, Eylül 2012
- 121.**İ. Borazan, A. Bedeloğlu, A. Demir, 5th International Technical Textiles Congress

konferansı dahilinde "5th International Technical Textiles Congress Book of Abstract" bildiri kitapçığındaki "The Effect Of Polymer Anode On The Performance Of Organic Photovoltaic Fibre Structure", 69-70 pp., İZMİR, Kasım 2012

- 122.** İ. Borazan, A. Bedeloğlu, A. Demir, Fiber Society Fall 2012 konferansı dahilinde "-" bildiri kitapçığındaki "Photovoltaic Fiber Having Polymer Anode And Inverted Layer Sequence", - pp., ABD, Kasım 2012
- 123.** İ. Borazan, A. Bedeloğlu, A. Demir, 8th Nanoscience and Nanotechnology Conference (NanoTR VIII), konferansı dahilinde "-" bildiri kitapçığındaki "Photovoltaic Fiber Having Polymer Anode And Inverted Layer Sequence", - pp., ANKARA, Haziran 2012
- 124.** İ. Borazan, A. Bedeloğlu, D. Özdemir, A. Demir, 12th World Textile Conference Autex 2012 konferansı dahilinde "12th World Textile Conference Autex 2012" bildiri kitapçığındaki "Photovoltaic Fiber Manufactured With Completely Solution-Based Techniques", 1411-1414 pp., Zadar, Croatia, 2012
- 125.** İ. Borazan, A. Bedeloğlu, M. Sezen, A. Demir, ICONTEX2011 International Congress of Innovative Textiles konferansı dahilinde "Proceedings Oral Presentations" bildiri kitapçığındaki "Photovoltaic Fiber Having Poly (Ethylene Oxide) (PEO) Buffer Layer and Inverted Layer Sequence", 464-467 pp., İstanbul – TURKEY, 20-22 October 2011
- 126.** İ. Borazan, A. Bedeloğlu, D. Özdemir, A. Demir, International Symposium on New Frontiers in Fiber Materials Science of The Fiber Society, AATCC, and the National Textile Center konferansı dahilinde "-" bildiri kitapçığındaki "Photovoltaic Fiber Having Zinc Oxide-nano particles (zno-np) and Inverted Layer Sequence", - pp., Charleston, South Carolina, ABD, Ekim, 2011
- 127.** Demir, A. Bedeloğlu, K. Tütüncü, İ. Borazan, D. Özdemir, 7th Nanoscience and Nanotechnology Conference (NanoTR VII) konferansı dahilinde "7th Nanoscience and Nanotechnology Conference (NanoTR VII)," bildiri kitapçığındaki "Development of photovoltaic fiber structure with different polymer-based nanomaterials", S2-O.7 pp., İSTANBUL, Haziran 2011
- 128.** A. Demir, A. Bedeloğlu, İ. Borazan, D. Özdemir, K. Tütüncü, The Fiber Society 2011 Spring Conference konferansı dahilinde "The Fiber Society 2011 Spring Conference" bildiri kitapçığındaki "Design of an organic photovoltaic fibre structure", 36-37 pp., ÇİN, Mayıs 2011
- 129.** Demir, A. (Çelik) Bedeloğlu, M. Sezen, K. Tütüncü, İ. Borazan, XIIth International Izmir Textile and Apparel Symposium, IITAS 2010 konferansı dahilinde "XIIth International Izmir Textile and Apparel Symposium, IITAS 2010" bildiri kitapçığındaki "Güneş Işığını Elektrik Enerjisine Dönüştürülen (Fotovoltaik) Lif Yapısının Tekstil Amaçlı Uygulanabilir Boyuta Getirilmesi", 1-4 pp., İZMİR, Ekim 2010,
- 130.** Bedeloğlu, A. Demir, Y. Bozkurt, 6th Nanoscience and Nanotechnology Conference konferansı dahilinde "6th Nanoscience and Nanotechnology Conference" bildiri kitapçığındaki "Electricity Generation by Photovoltaic Textile Structures", 196 pp., Çeşme, İzmir, Haziran 2010
- 131.** Çelik Bedeloğlu, A. Demir, Y. Bozkurt, 4th International Technical Textiles Congress konferansı dahilinde "4th International Technical Textiles Congress" bildiri kitapçığındaki "Development of An Energy Generating Photovoltaic Fibre", 23 pp., İSTANBUL, Mayıs 2010

- 132.** Bedelođlu, A. Demir, Y. Bozkurt, The Fiber Society Spring 2010 International Conference konferansı dahilinde "The Fiber Society Spring 2010 International Conference" bildiri kitapçıđındaki "A Study About Photovoltaic Fibers", 111-112 pp., BURSA, Mayıs 2010
- 133.** A. Demir, A. Bedelođlu, K. Tütüncü, İ. Borazan, D. Özdemir, "Polimer Esaslı Fotovoltaik Lif Tasarımı", *İTÜ Vakfı Dergisi*, 78-80 pp., 2011
- 134.** Bedelođlu, A. Demir, Y. Bozkurt, "Photovoltaic applications for textiles", *Melliand International*, 44-45 pp., 2010
- 135.** Bedelođlu, A. Demir, Y. Bozkurt, "Fotovoltaik Liflerle Elektrik Üreten Tekstiller", *TÜBİTAK Bilim ve Teknik Dergisi*, 80-83 pp., 2010
- 136.** Bedelođlu, M. Sezen, A. Demir, 8. Ulusal Temiz Enerji Sempozyumu ve Fuarı konferansı dahilinde "8. Ulusal Temiz Enerji Sempozyumu ve Fuarı" bildiri kitapçıđındaki "Fotovoltaiklerin elektrik enerjisi üretiminde kullanılması ve Bursa'daki potansiyeller", - pp., BURSA, Aralık 2010
- 137.** Bedelođlu, İ. Borazan, A. Demir, UTİB Türkiye Tekstil Ve Konfeksiyon Sektöründe V. Uluslararası Ar-Ge Proje Pazarı Zirvesi Konferansı Dahilinde "Utib Türkiye Tekstil Ve Konfeksiyon Sektöründe V. Uluslararası Ar-Ge Proje Pazarı" bildiri kitapçıđındaki "Karbon Nanotüp/ Polimer Kompozit Malzeme Esaslı Elektrot Kullanılarak Fotovoltaik Lif Geliştirilmesi", 437-438 pp., Merinos AKM, Bursa, 2013
- 138.** A. Demir, A. Bedelođlu, İ. Borazan, D. Özdemir, UTİB Tekstil Ve Konfeksiyon Sektöründe IV. Uluslararası Ar-Ge Proje Pazarı Konferansı Dahilinde "UTİB Tekstil Ve Konfeksiyon Sektöründe IV. Uluslararası AR-GE Proje Pazarı" bildiri kitapçıđındaki "Güneş Işıđını Kullanarak Elektrik Üretebilen Lif Yapısının Tersinir (Inverted) Güneş Pili Yapısı İle Tasarımı", 413-414 pp., BURSA, Şubat 2012
- 139.** Demir, A. Bedelođlu, İ. Borazan, K. Tütüncü, M. Sezen, UİB III. Uluslararası AR-GE Proje Pazarı konferansı dahilinde "UİB III. Uluslararası AR-GE Proje Pazarı" bildiri kitapçıđındaki "Güneş Işıđını Elektrik Enerjisine Dönüştüren Lif Yapısının Tasarımı ve Üretimi", 89-90 pp., BURSA, Şubat 2011
- 140.** Ayse (Çelik) Bedelođlu, Ali Demir, Tekstil ve Konfeksiyon Sektöründe II. AR-GE Proje Pazarı Platformu konferansı dahilinde "Tekstil ve Konfeksiyon Sektöründe II. AR-GE Proje Pazarı Platformu" bildiri kitapçıđındaki "Fotovoltaik Lif Tasarımı ve Üretimi", 3-4 pp., Bursa, Şubat 2010