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Prof.Dr. Ömer Berk Berkalp, born 1973, is working at ITU since 1995. He has studied on performance characteristics of woven carpets for his M.Sc. degree and then studied on objective evaluation of hydroentangled nonwovens for his Ph.D.Degree. He has been in the United States and worked for NCRC (Nonwovens Cooperative Research Center; North Carolina State University) during his PhD studies for 18 months.

He is a full-time professor at Istanbul Technical University, Department of Textile Engineering since 2003.

He has worked in various positions at the Department and at the Faculty since 1995. He is the Erasmus Coordinator of the Faculty at this time.

He is teaching various courses at the undergraduate and graduate level. He is teaching woven fabric design, weaving technology II, nonwovens, statistics and specific fabric structures (coating-laminating techniques, composites etc.). He has research activities on woven and nonwoven fabrics and also in textile recycling and textile composites. He has many publications on these subjects.

PROJECTS

International Projects:

Objective Evaluation of Hydroentangled Nonwovens; **Researcher**, North Carolina State Universitesi, NCRC (Nonwovens Cooperative Research Center); Jan 2001-July 2002.

Principal Projects funded by TUBITAK or Ministry of Science, Industry and Technology:

Ömer Berk BERKALP (**Principal Investigator**), Mustafa BAKKAL, Şafak YILMAZ, Telem GÖK SADIKOĞLU, "Design and Characterization of Polymer Matrix Shock Absorbent Composite Goods for Automotive Industry to Reuse and Utilize Textile Waste", TUBITAK 107M354, 2007 - 2010

Telem GÖK SADIKOĞLU, Ömer Berk BERKALP (**Researcher**), Mustafa BAKKAL, "Nonwoven Waste Composite Design and Investigation of its Performance" TÜBİTAK 109M765, 2010- 2011.

Mustafa BAKKAL, Ömer Berk BERKALP (**Researcher**), Telem GÖK SADIKOĞLU, "Optimization, Characterization and Manufacturing of Textile Waste Reinforced Recycled Polymer Matrix Composite by Thermoforming, 01392.STZ.2012-1, 2012-2014 SANTEZ Project.

Ömer Berk BERKALP (**Principal Investigator**), Hande SEZGIN, Investigation of the Interface of Glass Fiber Hybrid Composites, ITU BAP Project, October 2013 -

Ömer Berk BERKALP (**Principal Investigator**), Shakrukh SHAHBAZ, Investigation of the Impact of CNT Grafting on Mechanical Properties Of Carbon/Glass Hybrid Composites, ITU BAP Project, February 2015 -

PUBLICATIONS

Principal Publications:

Aral N., Berkalp, O.B., Bakkal, M., Sadıkoğlu, T., Atık Kumaş Takviyeli Polimer Matrisli Kompozitlerin Darbe ve Çekme Davranışlarının İncelenmesi, Tekstil ve Konfeksiyon, pg.139-144, 2/2009

O.Tokmak, O.B.Berkalp, J.Gelsak, Investigation of the Mechanics and Performance of Woven Fabrics Using Objective Evaluation Techniques. Part I: The Relationship Between FAST, KES-F and Cusick's Drape-Meter Parameters, FIBRES & TEXTILES in Eastern Europe 2010, Vol. 18, No. 2 (79) pp. 55-59.

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Sadıkoglu, T., Berkalp, O.B., Turan G., Disposable Underarm Pad Design, Tekstil ve Konfeksiyon, 217-224, 3/2011

Bakkal M., Bodur M. S., Berkalp O. B., Yılmaz S., The Effect Of Reprocessing On The Mechanical Properties Of The Waste Fabric Reinforced Composites, Journal of Materials Processing Technology, 212-11, 2012, 2541-2548

Gerikalmaz, S., Yılmaz S., Bakkal M., Berkalp O. B., Finite element modeling of random waste cotton fiber reinforced polyethylene composites, Tekstil ve Konfeksiyon , 293-300, 4/2012.

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Bodur, s., Bakkal M., Savas M., Berkalp O.B., A new approach for the development of textile waste cotton reinforced composites (T-FRP): laminated hybridization vs. coupling agents, Journal of Polymer Engineering, 34 (7), 639-648, 2014.

M. Safa Bodur, H. Ece Sonmez, Ömer Berk Berkalp, Mustafa Bakkal; Effect of Recycled LDPE Matrix on the Properties of Waste Cotton Fiber Reinforced (WCF-R) Composite, Usak University Journal of Material Sciences 1 (2014) 135 – 141

Onder E. and Berkalp O.B., Effects of Different Structural Parameters on Carpet Physical Properties, Textile Research Journal, 71(6), 549-555, 2001.

Berkalp, O.B., Pourdeyhimi, B., Holmes, R., and Seyam, A., Texture Retention after Fabric to Fabric Abrasion in Nonwovens, Textile Research Journal, 73(4), 316-321, 2003.

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Presentations in International Congress and Symposiums:

Berkalp, O. B., Onder E., " Objective Evaluation of Fabric Wrinkle", 2nd International Textile Clothing & Design Conference, Dubrovnik - Hırvatistan, 2-7 Ekim, 2004.

Sadıkoglu T.G., Berkalp, O. B., Özdemir G., Müjdecı S., “Koltukaltı Ter Pedi Tasarımı”, 2.Uluslararası Teknik Tekstiller Kongresi, İstanbul, 13-15 Temmuz 2005.

Aral N., Berkalp, O.B., Bakkal, M., Sadıkoğlu, T., Yılmaz S., Karakaşlıoğlu C., Impact Properties of Waste Polyethylene Terephthalate Fabric Reinforced Polyester Composites, 2. International Symposium on Fiber Recycling, 11-12 May 2009, Atlanta, ABD.

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Gök Sadıkoğlu T., Yalçın İ., Berkalp O. B. , The Usage of Mineral Added Nonwovens in Agricultural Irrigation Systems, 5th ITC & DC Conference, Dubrovnik, Croatia, October 3-6, 2010.

S. Bodur, M. Bakkal, O.B. Berkalp, T.G. Sadıkoğlu, "Effect of the reprocessing on the tensile properties of composites" International 10th AMPT Conference, October 24-27, 2010, Paris, France

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Sezgin, H., Yalçın, I., İridag Beceren, Y., Berkalp, O.B., "Electrospinning of Polyacrylonitrile (PAN) Nanofibers: Optimization of Process Parameters with Full Factorial Experimental Design" 7th Central European Conference, 13-15 September 2012, Portorož- SLOVENIA.

Gocek I., Berkalp O. B., Diker M., Ozkan D. A., "Design of an Antibacterial Core-spun Yarn for Woven Lightweight Fabric Production". CEC2012, Portorose, SLOVENIA, 15-17 September 2012.

Yalcin, I., Berkalp, O.B., Sezgin, H., Gok Sadikoglu, T., "Design of a Tea Tray from Textile Waste Reinforced Composite", 7th Central European Conference, 13-15 September 2012, Portorose- SLOVENIA.

Berkalp, O.B., Yalcin, I., Gok Sadikoglu, T., "The Usage of Nonwovens in Agricultural Irrigation Systems", 7th Central European Conference, 13-15 September 2012, Portorose-SLOVENIA.

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Berkalp O. B., Sahin U.K., Gocek I., Keskin R., Acarkan N., Ozkan S., Dikmen C.D., Daskaya E., Saglam H., "Composite Polyacrylonitrile Nanofibers Possessing Potential Use in Filtration", 05/2013, Innovative solutions for sustainable dev. of text. & leather ind. 2013, Oradea ROMANIA.

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İpek Yalçın, Hande Sezgin, Ömer Berk Berkalp, Telem Gök Sadıkoğlu; Comfort and Mechanical Performance Analysis of Spunlaced Nonwoven Fabrics, 14th AUTEX World Textile Conference May 26th to 28th 2014, Bursa, Turkey

Hande Sezgin, İpek Yalçın, İnkilem Göcek, Ömer Berk Berkalp; Design of a Flame Retardant Tubular Woven Cloth Construction, 14th AUTEX World Textile Conference May 26th to 28th 2014, Bursa, Turkey.

Hande Sezgin, Ömer Berk Berkalp, Mechanical Properties of Woven Jute-Glass Hybrid Composites, 15th AUTEX World Textile Conference 2015 June10-12, 2015, Bucharest, Romania.

Ömer Berk Berkalp, Hande Sezgin; Investigation of the Mechanical Properties of Glass/Carbon Hybrid Composites, ASME 2015 Applied Mechanics and Materials Conference, McMAT2015; June 29 2015 - July 01 2015, Seattle, USA.

Hande Sezgin, Ömer Berk Berkalp, Examination Of Stacking Sequence Effect On Mechanical Properties Of Woven Glass/Jute Hybrid Composites, 5th International Istanbul Textile Congress 2015: Innovative Technologies “Inspire to Innovate”; September 11th -12th 2015 Istanbul, Turkey

Publications in Turkish Journals

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