



LECTURER DR. RAMAZAN ERDEM

+905433822010

ramazanerdem@akdeniz.edu.tr, erdemramazan@gmail.com

Akdeniz University
Serik GSS Vocational School of Higher Education
Coordinator of Textile Technologies Department

EDUCATION

MARMARA UNIVERSITY	2010-2013
PhD: <i>Fabricating Nanofiber Based Wound Dressing Material</i>	
UNIVERSITY OF BOLTON, UK	2004-2005
MSc: <i>Antimicrobial Applications for Textile Materials</i>	
MARMARA UNIVERSITY	1999-2003
Bachelors' Degree: <i>Textile Education</i>	

LANGUAGE SKILLS

English.....KPDS: 93,75
(2012)

PROJECTS

- ***Project Coordinator.*** Preparation of Nanohydroxyapatite and Nanosilver added Biopolymer based Nanofibrous Bone Tissue Scaffold by Electrospinning Technique (FBA-2016-877) funded by Akdeniz University Projects Coordination Unit, 2016-2018
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- **Researcher**, "Polimer Bazlı Nanofiber Yapıların Elektroçekim Yöntemiyle Elde Edilmesi ve Özelliklerinin İncelenmesi", BAP Arastırma Projesi, FED-2017-9348, funded by Cukurova University Projects Coordination Unit, 2017-2018
- **Researcher**, Investigation of Possible Use of Carbon Fiber Reinforced Composite Structures in Otomobile Components (FBA-2016-6188) funded by Cukurova University Projects Coordination Unit, 2015-2016.
- **Researcher**, Nanoparticle Synthesis and Fabrication of Nanofibers by Electrospinning (FBA-2016-6201) funded by Cukurova University Projects Coordination Unit, 2015-2016.
- **Researcher**, Preparation and Property Analysis of Biocomposites Made of Fibrous Agricultural Wastes in Turkey (FEN-E-120314-0067) funded by Marmara University Projects Coordination Unit, 2014-2017.
- **Researcher**, Performance Analysis of Natural and Synthetic Polymers Based Electrospun Nanofiber Webs In Use of Wound Dressing and Tissue Engineering Applications (FEN-A-100713-0328) funded by Marmara University Projects Coordination Unit, 2013-2016.
- **Researcher**, Developing Nanofibrous Wound Dressing by Electrospinning (FEN-C-DRP-0905212-0170) funded by Marmara University Projects Coordination Unit, 2011-2013.
- **Project Team Member**, Fashion and Textile Cluster Project, European Union Comission, 2007-2010.

PUBLICATIONS

SCI and SCI Expanded Journals:

- Sancak E., Özen M.S., **Erdem R.**, Yılmaz A.C., Yüksek M., Soin N., et al., "PA6/Silver Blends: Investigation of Mechanical and Electromagnetic Shielding Behaviour of Electrospun Nanofibers", *TEXTILE AND APPAREL*, no.3, pp.229-235, 2018
- Ali Can Yılmaz, Erhan Sancak, **Ramazan Erdem**, Özlem Erdem, Navneet Soin, *Analyses of the Mechanical, Electrical and Electromagnetic Shielding Properties of Thermoplastic Composites Doped with Conductive Nanofillers*, **Journal of Composite Materials**, vol.52, pp.1423-1432, 2018
- **Ramazan Erdem**, Mustafa İlhan, Mete Kaan Ekmekçi, Özlem Erdem, *Electrospinning, Preparation and Photoluminescence Properties of CoNb2O6:Dy3+ Incorporated Polyamide 6 Composite Fibers*, **Applied Surface Science**, 2017, 421, 240-246.
- **Ramazan Erdem**, Metin Yüksek, Erhan Sancak, Onur Atak, Merve Erginer, Levent Kabasakal, Ali Beyit, *Electrospinning of Single and Multilayered Scaffold for Tissue Engineering Applications*, **Journal of The Textile Institute**, 2017, 108, 935-946.
- Sinem Budun, Erkan İşgören, **Ramazan Erdem**, Metin Yüksek, *Morphological and Mechanical Analysis of Electrospun Shape Memory Polymer Fibers*, **Applied Surface Science**, 2016, 380, 294-300.
- **Ramazan Erdem**, Mustafa İlhan, Erhan Sancak, *Analysis of EMSE and Mechanical Properties of Sputter Coated Electrospun Nanofibers*, **Applied Surface Science**, 2016, 380, 326-330.
- **Ramazan Erdem**, *Evaluation of Electromagnetic Shielding Effectiveness of Multi-axial Fabrics and Their PES Composites*, **Bulletin of Materials Science**, 2016, 39, 963-970.
- **Ramazan Erdem**, Subbiyan Rajendran, *Influence of Silver Loaded Antibacterial Agent on Knitted and Nonwoven Fabrics and Some Fabric Properties*, **Journal of Engineered Fibers and Fabrics**, 2016, 11(1), 38-46.

- **Ramazan Erdem, İsmail Usta, Mehmet Akalın, Onur Atak, Metin Yüksek, Abdulkadir Pars, "The Impact Of Solvent Type And Mixing Ratios Of Solvents On Theproperties Of Polyurethane Based Electrospun Nanofibers", 2015, Applied Surface Science, 334, 227-230.**
- Gizem Karakan Günaydın, **Ramazan Erdem**, Sema Palamutçu, Gabil Abdulla (2015) *The Influence of Nozzle Pressure and Yarn Count on Vortex Spun Yarn Properties Produced by MVS Machine. Industria Textila*, 66(1), 20-27.
- **Ramazan Erdem**, Mehmet Akalın (2015) *Characterization and Evaluation of Antimicrobial Properties of Electrospun Chitosan/PEO Based Nanofibrous Scaffolds (with/without nanosilver). Journal of Industrial Textiles*, 44(4), 553-571.
- Ayhan ONAT, S. Serdar PAZARLIOĞLU, Erhan SANCAK, Sezgin ERSOY, Ali BEYGT, **Ramazan Erdem**. (2013) *Thermal and Mechanical Properties of Walnut Shell and Glass Fiber Reinforced Thermoset Polyester Composites. Asian Journal of Chemistry*, 25(4), 1947-1952.

Other Publications:

- **Erdem R.**, Aydoğan Bayram M., Bilge G., Atak O., "İpek Kumaşların Bitki Yaprakları ile Bölgesel Desenlendirilmesi", Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.22, ss.1058-1065, 2018
- **Ramazan Erdem**, Özlem Erdem, Investigation of the Morphological and Luminescence Properties of Ligand Doped Polyurethane Nanofibers Produced by Electrospinning, *Journal of Textiles and Engineer*, 2017, 24(105), 18-24.
- **R. Erdem**, E. Sancak, S.S. Pazarlıoğlu, M. Akalın, O. Atak, (2013) Investigation of the Mechanical Properties of Polyamide 6/Chitosan/Hydroxyapatite Based Electrospun Nanofibrous Biocomposites, *Nano Studies*, 8, 103-110.
- **R. Erdem**, I. Usta, E. Sancak, D.E. Koçak, M. Akalın, (2013), Effect of Propolis Extract to Electrospun Polyurethane Nanofibers, *Nano Studies*, 7, 21-26.
- **Ramazan ERDEM**, Erhan SANCAK (2014), Functionalization Techniques for Electrospun Nanofibers for Drug Delivery Applications: A Review, *Usak Univesity Journal of Material Sciences*, 2, 180-201.
- **Ramazan ERDEM**, Erhan SANCAK (2013) Elektroçekim Yöntemiyle Elde Edilen Poliamid 6/Kitosan bazlı Nanoliflerin Morfolojik Özelliklerinin İncelenmesi. *İstanbul Ticaret Üniversitesi Fen Bilimleri Dergisi*, 24, 53-65.
- **Ramazan ERDEM**, Erhan SANCAK (2014) İkili Besleme Ünitesi Sistemi ile Elektroçekimi Gerçekleştirilen PVA/ Aloe barbadensis ve PEO/Kitosan Bazlı Nanolifli Yapıların Morfolojik ve Mekanik Özelliklerinin İncelenmesi. *Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi*, 14; 017101, (1-6).

Book Chapter:

- **Erdem R.**, "Advances in fabric structures for wound care", in: *Advanced Textiles for Wound Care*, Rajendran S., Eds., Woodhead Publishing, London, pp.509-540, 2018

Conference Proceedings:

- İlhan M., **Erdem R.**, "Electrospinning of Composite Fibers with Luminescence Properties", 8th International Istanbul Textile Conference: Evolution of Technical Textiles (ETT 2018), İSTANBUL, TÜRKİYE, 14-16 April 2018, pp.61-61.
- **Erdem R.**, "Çok Eksenli Kumaş Takviyeli Kompozitlerin Elektromanyetik Kalkanlama Etkinlikleri ", 2. Uluslararası Mesleki Bilimler Sempozyumu (IVSS 2018), ANTALYA, TÜRKİYE, 26-29 April 2018, pp.55-55

- **Erdem R.**, Erdem Yılmaz Ö. , Yılmaz A.C., "The Impact of Solvents on the Properties of Electrospun Nanofibers", 42th International Academic Conference, ROME, ITALY, 10-13 September 2018, pp.51-59
- İlhan M., **Erdem R.**, "Sintilatör malzemelerin farklı uygulamaları ile ilgili yeni gelişmeler", 2. Uluslararası Mesleki Bilimler Sempozyumu (IVSS 2018), ANTALYA, TÜRKİYE, 26-29 April 2018, pp.57-57
- **Erdem R.**, Yavuz E., Erdem Yılmaz Ö. , Akarsu E., Akarsu M., "Kemik Doku İskelesi Uygulamaları için Hidroksiapatit Katkılı Liflerin Elektroğirme Yöntemiyle Eldesi", 2. Uluslararası Mesleki Bilimler Sempozyumu (IVSS 2018), ANTALYA, TÜRKİYE, 26-29 April 2018, pp.59-59
- Yılmaz A.C., **Erdem R.**, Erdem Yılmaz Ö. , "Dispersion of CuO nano particles in the lubricant of a vapor compression refrigeration system: An investigation on enhancing coefficient of performance", 42th International Academic Conference, ROME, ITALY, 10-14 September 2018, pp.387-387
- Yavuz E., **Erdem R.**, Küçüksayan E., Erdem Ö., Akarsu M., "In vitro Evaluation of Modified Nanohydroxyapatite Doped Electrospun Nanofibrous Scaffold", 12th International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT), PARIS, FRANCE, 11-13 September 2017, pp.96-96
- **Erdem R.**, Sancak E., Özen M.S., Yüksek M., Soin N. , Shah T. , "PA6/Silver blends: Investigation of Mechanical and Electromagnetic Shielding Behaviour of Electrospun Nanofibers", 12th International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT), PARIS, FRANCE, 11-13 September 2017, pp.99-99
- **Erdem R.**, Aydoğan Bayram M., Bilge G., "Ekolojik Baskı Yöntemiyle Kumaşların Renklendirilmesi", 2. Uluslararası Akdeniz Sanat Sempozyumu (Doğal Boyama), ANTALYA, TÜRKİYE, 10-12 May 2017, pp.50-50
- **Erdem R.**, Erdem Ö. , Atak O., Pars A., "Electrospinning of Ligand Doped Nanofibers", 4th International Conference on Value Addition and Innovation in Textiles (COVITEX 2017), Faisalabat, PAKISTAN, 27-28 Mart 2017, pp.139-145
- **Erdem R.**, "Synthesis and Electrospinning of nHAP and AgNP Doped Polylactide-co-Caprolactone Fibers", 2nd International Conference on Advances in Natural and Applied Sciences (ICANAS 2017), ANTALYA, TÜRKİYE, 18-21 April 2017, pp.101-101
- **Erdem R.**, Yüksek M. , Sancak E., Atak O., "A Study on Electrospinning of Biopolymer Based Tissue Scaffold", 4th International Conference on Value Addition and Innovation in Textiles (COVITEX 2017), Faisalabat , PAKISTAN, 27-28 March 2017, pp.34-41
- Erdem Ö., Yılmaz A.C., **Erdem R.**, "Çoklu Elyaf Cinsi İçeren Kumaşların Susuz Ortamda Özel Bir Reaktörde Dispers Boyalarla Boyanması", VIII. International R&D Brokerage Event, BURSA, TÜRKİYE, 12-13 May 2016, pp.7-7
- Erdem Ö., **Erdem R.**, "Acquisition of Polyurethane Nanofibers Doped with Synthesized Ligands Using Electrospinning Technique ", II. International Turkic World Conference on Chemical Sciences and Technologies, Skopje, MACEDONIA, 26-30 October 2016, pp.429-429
- Yılmaz A.C., Sancak E., **Erdem R.**, Erdem Ö., "Analyses of the Mechanical, Electrical and Electromagnetic Shielding Properties of Thermoplastic Composites Doped with Conductive Nanofillers", 11th International Conference on Surfaces, Coatings and Nanostructured Materials (NANOSMAT), Aveiro, PORTUQAL, 6-9 September 2016, pp.173-173
- Yılmaz A.C., **Erdem R.**, Erdem Ö., "Kevlar 779 Lifi Destekli Kompozit Yapıların Otomobil Karoserlerinde Güçlendirici Olarak Kullanılması", VIII. International R&D Brokerage Event, BURSA, TÜRKİYE, 12-13 May 2016, pp.61-61
- **Erdem R.**, Aydoğan M., Sancak E., Erdem Ö., "Elektromanyetik Dalgaları Engelleyen Hamile Kıyafeti Tasarımı", VIII. International R&D Brokerage Event, BURSA, TÜRKİYE, 12-13 May 2016, pp.21-21
- Erdem Ö. , Kaya K., **Erdem R.**, Güzel B., "Doğal Yün Elyafının Susuz Boyama Yöntemi Olan Süperkritik Karbondioksit Ortamında Boyanması", VII. UTIB International R&D Brokerage Event, BURSA, TÜRKİYE, 27-29 May 2015, pp.56-56
- Yüksek M. , **Erdem R.**, Akalın M., Atak O., "Preparation of Multi-layered PCL/Collagen Type1/Elastin Nanofibrous Composite by Electrospinning", 13th Asian Textile Conference, Victoria, AUSTRALIA, 3-6 November 2015, pp.55-58
- **Erdem R.**, Kabasakal L., Akalın M., "Preparation Of Chitosan/Polyethylene Oxide Based Nanofibrous Wound Dressing Material (With/Without Nanosilver) By Electrospinning Technique ", International Conference on Future Technical Textiles (FTT 2014), Istanbul, Turkey, 15-17 October 2014, pp.95.

- Karakan Günaydin G., **Erdem R.**, "The Influence Of Nozzle Pressure And Yarn Count On The Evenness And Imperfection Properties Of Vortex Spun Yarn Produced By Mvs Machine", International Conference on Future Technical Textiles (FTT 2014), Istanbul, Turkey, 15-17 October 2014, pp.126-128.
- **Erdem R.**, Özyiğit Y. , Sözmen E.U., "Morphological Analysis Of Rosemary And Origan Oil Added Polycaprolactone Based Electrospun Nanofibers", International Conference on Future Technical Textiles (FTT 2014), Istanbul, Turkey, 15-17 October 2014, pp.69-71.
- **Erdem R.**, Akarsu M., Burunkaya E. , Erdem Ö., Akalın M., "Morphological Analysis Of Polycaprolactone Nanofibers Containing Nanohydroxyapatite Particles", International Conference on Future Technical Textiles (FTT 2014), Istanbul, Turkey, 15-17 October 2014, pp.67-69.
- Koçak D., **Erdem R.**, Merdan N. , Sancak E., Canoğlu S., "Investigation Of The Properties Of Alginat/Poly (Vinil Alcohol) Nano Fibers", XII International Conference on Nanostructured Materials (NANO 2014), Moscow, Russia, 13 - 18 August 2014, pp.1032-1032.
- **Erdem R.**, Sancak E. , Akalın M., Yüksek M., Beyit A., Özdoğan R., "Preparation Of Argan Oil Added Polyurethane Based Electrospun Nanofibrous Membrane", NANOSMAT-USA, Houston, TEKSAS, US, 19-22 May 2014, pp.40-47.
- **Ramazan ERDEM**, Evaluation of Antimicrobial Effectiveness of Chitosan/PEO based E-SPUN Nanofibrous Composites (with/without Nanosilver). 2nd International Conference on Value Addition & Innovation in Textiles (Covitex), Proceedings, 183-191, 23-24 March 2013, Pakistan.
- **Ramazan ERDEM**, Investigating the Effects of Different Molecular Weights of Chitosan and Poly (Ethylene Oxide) Polymers on the Morphology of Electrospun Nanofibers. 2nd International Conference on Value Addition & Innovation in Textiles, Proceedings (Covitex), 192-199, 23-24 March 2013, Pakistan.
- Dilara Kocak, **Ramazan Erdem**, Erhan Sancak, Ilker S. Mistik, Nigar Merdan, and Mehmet Akalin, Investigation of Mechanical Properties of the Nano PVA/Chitosan Composites. ICCS 17, 17-21 June 2013, Portugal.
- Yüksek M., **Erdem R.**, Akalın M., Atak O., Preparation of Multi-layered PCL/Collagen Type 1/Elastin Nanofibrous Composite by Electrospinning, 13th Asian Textile Conference, Victoria, Australia, 3-6 November 2015, pp. 55-58.

Lectures:

- Natural and Man-made Textile Fibers
- Yarn Production Technology
- Weaving Technology
- Knitting Technology
- Fabric Analysis and Production
- Testing Procedures for Textile Materials
- Total Quality Management for Textile Industry

Research Fields:

- Technical Textiles, Textile Materials, Nanofibers

Certificates:

- Training for Project Preparation in Engineering and Technology Fields (Mühendislik ve Teknoloji Alanlarında Proje Hazırlama Eğitimi), TUBITAK/SAKARYA UNIVERSITY, 2014
- Technical and Financial Audit-Independent Auditor (Teknik ve Mali Değerlendirme-Bağımsız Değerlendirici), East Black Sea Region Development Agency, 2011
- Health and Safety Training (İş Sağlığı ve Güvenliği), DETAM, 2010
- Set-up and Maintenance Training for Textile Laboratory Equipments (Tekstil Laboratuvar Ekipmanları Kurulum ve Kullanım Eğitimi), MESDAN, 2010
- European Union Project, Bildung fur Europa, 2009
- Set-up and Maintenance Training for Nonwoven Pilot Line (Nonwoven Pilot Üretim Hattı Kurulumu ve Kullanımı Eğitimi), CORMATEX, 2009
- Training for Project Preparation for European Union Projects, ECONOMICIAN PLATFORMS, 2009
- Certificate Program on Sustainable Development for the Private Sector with a focus on EU Accession, Regional Environments Center (REC, Türkiye), 2008
- National, Europe, International Standardization Activities and Mirror Committees Training-Turkish Standardization Institute (Ulusal, Avrupa, Uluslararası Standardizasyon Faaliyetleri ve Ayna Komiteleri Eğitimi-TSE), 2008