

## Assoc. Prof. SAMET DEMİREL

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-4842-7073

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### Education Information

Doctorate, Mississippi State University, College Of Forest Recourses, Forest Products, United States Of America 2008 - 2012

Postgraduate, Karadeniz Technical University, -, Orman Endüstri Mühendisliği, Turkey 2003 - 2006

Undergraduate, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, Turkey 1999 - 2003

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Education Management and Planning, Certificate of Membership, The Honor Society of Phi Kappa Phi, 2012

Education Management and Planning, Takdir Belgesi, Milli Eğitim Bakanlığı, 2011

Other, Certificate of Membership, Forest Products Society, 2010

Security, Certificate of Training, Mississippi State University, 2010

Foreign Language, Certificate of Attendance, ELS Educational Services, 2008

Foreign Language, Certificate of Promotion, ELS Educational Services, 2008

Foreign Language, Certificate of Attendance, ELS Educational Services, 2007

Foreign Language, Certificate of Promotion, ELS Educational Services, 2007

Foreign Language, Certificate of Merit, ELS Educational Services, 2007

Foreign Language, Certificate of Merit, ELS Educational Services, 2007

### Research Areas

Agricultural Sciences, Forestry, Forest Industry Engineering, Wood Mechanics and Technology

### Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, 2020 - Continues

Assistant Professor, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, 2014 - 2020

## Courses

Mobilya Konstrüksiyonu, Undergraduate, 2022 - 2023  
Ahşap İşleme Teknolojileri, Undergraduate, 2020 - 2021  
Furniture Construction, Undergraduate, 2020 - 2021  
Measurements in Furniture, Postgraduate, 2014 - 2015

## Advising Theses

Demirel S., ISIL İŞLEMLİ SARIÇAM VE DİŞBUDAK ODUNLARINDAN ÜRETİLMİŞ L-TİPİ MOBİLYA BİRLEŞTİRME YERLERİNİN YORULMA PERFORMANSLARININ İNCELENMESİ, Postgraduate, R.ŞEN(Student), 2021  
Demirel S., Investigating the creep properties of furniture joints constructed from scotch pine, alder, beech wood, Postgraduate, S.BAŞ(Student), 2019  
Demirel S., Investigation of lateral shear resistance of one and two row multi staple joints constructed from different wood species, Postgraduate, G.KALAYCI(Student), 2019  
Demirel S., Evaluation of static fatigue and cyclic fatigue performances of foams, upholstered furniture, Postgraduate, B.ERGÜN(Student), 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Bending fatigue performance of L-shaped stapled one-side two-gusset-plate upholstered furniture joints in oriented strandboard**  
DEMİREL S., Zhang J., Wang Y.  
European Journal of Wood and Wood Products, vol.82, no.2, pp.493-502, 2024 (SCI-Expanded)
- II. **Characterization and Ofloxacin Adsorption Studies of Chemically Modified Activated Carbon from Cassava Stem**  
Sulaiman N. S., Mohamad Amini M. H., Danish M., Sulaiman O., Hashim R., Demirel S., Köse Demirel G.  
MATERIALS, vol.15, no.15, 2022 (SCI-Expanded)
- III. **EVALUATION AND COMPARISON OF CONTROL AND HEAT TREATED L-SHAPE FURNITURE JOINTS PRODUCED FROM SCOTCH PINE AND ASH WOOD UNDER STATIC BENDING AND CYCLIC FATIGUE BENDING LOADINGS**  
DEMİREL S., Er R. S.  
Maderas: Ciencia y Tecnologia, vol.24, pp.1-14, 2022 (SCI-Expanded)
- IV. **Evaluation of Creep Characteristics of Single-Staple Furniture Joints Made of Different Wood Species**  
DEMİREL S., Bas S.  
DRVNA INDUSTRIJA, vol.72, no.2, pp.179-186, 2021 (SCI-Expanded)
- V. **MEASURING AND ESTIMATING SHEAR FORCE OF ONE STAPLED AND ONE-ROW MULTI STAPLED WOOD JOINTS**  
Demirel S., Kalaycı G.  
MADERAS-CIENCIA Y TECNOLOGIA, vol.22, no.3, pp.395-404, 2020 (SCI-Expanded)
- VI. **Static Lateral Load Resistance of Parallel Bamboo Strand Panel-to-Metal Single-Bolt Connections - Part 2: Fracture Model**  
Yu X., Chen C., DEMİREL S., Zhang J.  
BIORESOURCES, vol.14, no.3, pp.5747-5763, 2019 (SCI-Expanded)
- VII. **Factors Affecting Critical Screw-Driving Torques in Particleboard**  
Tor O., YU X., DEMİREL S., Hu L., Zhang J.  
BIORESOURCES, vol.14, no.3, pp.6645-6656, 2019 (SCI-Expanded)
- VIII. **Evaluation of the cyclic fatigue performance of polyurethane foam in different density and category**  
DEMİREL S., Tuna B. E.  
POLYMER TESTING, vol.76, pp.146-153, 2019 (SCI-Expanded)
- IX. **LATERAL LOADS OF STAPLED-GLUED SURFACE-TO-SURFACE JOINTS IN ORIENTED STRANDBOARD**

## **FOR FURNITURE**

DEMİREL S., TOR Ö., Yu X., Zhang J.

WOOD AND FIBER SCIENCE, vol.50, no.3, pp.280-290, 2018 (SCI-Expanded)

- X. **LATERAL LOAD RESISTANCE OF PARALLEL BAMBOO STRAND PANEL-TO-METAL SINGLE-BOLT CONNECTIONS - PART I: YIELD MODEL**  
Yu X., Dai L., DEMİREL S., Liu H., Zhang J.  
WOOD AND FIBER SCIENCE, vol.49, no.4, pp.424-435, 2017 (SCI-Expanded)
- XI. **IN-PLANE BENDING MOMENT RESISTANCE OF T-SHAPED ONE-SIDED TWO-GUSSET-PLATE FURNITURE JOINTS IN ORIENTED STRANDBOARD**  
DEMİREL S., Yu X., Tor O., Zhang J.  
WOOD AND FIBER SCIENCE, vol.48, no.3, pp.202-210, 2016 (SCI-Expanded)
- XII. **BENDING MOMENT RESISTANCE OF L-SHAPED TWO-GUSSET-PLATE FURNITURE JOINTS IN ORIENTED STRANDBOARD**  
DEMİREL S., Zhang J.  
WOOD AND FIBER SCIENCE, vol.46, no.3, pp.356-367, 2014 (SCI-Expanded)
- XIII. **FACE LATERAL RESISTANCE OF ORIENTED STRANDBOARD JOINTS CONNECTED WITH TWO ROWS OF 16-GAUGE COATED STAPLES**  
DEMİREL S., Zhang J.  
WOOD AND FIBER SCIENCE, vol.46, no.2, pp.280-290, 2014 (SCI-Expanded)
- XIV. **Face Lateral Shear Resistance of One-Row Multistaple Joints in Oriented Strandboard**  
Demirel S., Zhang J., Jones D., Kitchens S., Martin W. V., Yu H.  
FOREST PRODUCTS JOURNAL, vol.63, pp.207-212, 2013 (SCI-Expanded)
- XV. **Utilization Potential of Waste from Window Joints for Particleboard**  
ÇOLAK S., NEMLİ G., DEMİRKİR C., AYDIN İ., DEMİREL S.  
JOURNAL OF COMPOSITE MATERIALS, vol.45, no.1, pp.29-37, 2011 (SCI-Expanded)
- XVI. **Feasibility of incorporating waste grass clippings (*Lolium perenne* L.) in particleboard composites**  
Nemli G., DEMİREL S., Guemueskaya E., ASLAN M., ACAR C.  
WASTE MANAGEMENT, vol.29, no.3, pp.1129-1131, 2009 (SCI-Expanded)
- XVII. **Relationship between the density profile and the technological properties of the particleboard composite**  
Nemli G., Demirel S.  
JOURNAL OF COMPOSITE MATERIALS, vol.41, no.15, pp.1793-1802, 2007 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **Investigation of some mechanical properties of composite materials made of LDPE and bamboo at two different rates**  
Demirel S., Gençaliolu O., Aslan M., Kırıcı H.  
Ormançılık Araştırma Dergisi, vol.9, no.Special Issue, pp.291-298, 2022 (Peer-Reviewed Journal)
- II. **Constant-Fatigue Performance of Different Polyurethane Foams for Sitting Purposes**  
DEMİREL S., Ergun Tuna B.  
KASTAMONU UNIVERSITY JOURNAL OF FORESTRY FACULTY, vol.19, no.2, pp.225-234, 2019 (ESCI)
- III. **An Investigation on the Moisture Adsorption of Eastern Spruce [*Picea orientalis* (L.) Link.]**  
ÜÇÜNCÜ K., AYDIN A., DEMİREL S., TIRYAKI S.  
KASTAMONU UNIVERSITY JOURNAL OF FORESTRY FACULTY, vol.19, no.3, pp.272-283, 2019 (ESCI)
- IV. **Effects of Driving Torques on Direct Screw Withdrawal Resistance in OSB**  
Tor O., Demirel S., Hu L., Zhang J.  
KASTAMONU UNIVERSITY JOURNAL OF FORESTRY FACULTY, vol.16, no.2, pp.438-446, 2016 (ESCI)
- V. **Yonga Rutubeti, Parafin Kullanımı Ve Ağaç Cinsinin Yongalevhanın Bazı Teknolojik Özellikleri Üzerine Etkileri**

NEMLİ G., DEMİREL S., ZEKOVİÇ E.

Artvin Orman Fakültesi Dergisi, vol.7, no.2, pp.81-93, 2006 (Peer-Reviewed Journal)

VI. **KAPLANMIŞ LEVHA ÜRÜNLERİNİN KULLANIMINDA VE İŞLENMESİNDE DİKKAT EDİLMESİ GEREKEN BAZI HUSUSLAR**

NEMLİ G., DEMİREL S.

Artvin Orman Fakültesi Dergisi, vol.6, pp.59-68, 2005 (Peer-Reviewed Journal)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Effect of pressing time on the properties of particleboard made using glutaraldehyde-treated oil palm particle**  
Rahman N. H. A., Amini M. H. M., Sulaiman N. S., Hashim R., Mohamed M., Ameram N., Yusuf N. A. A. N., DEMİREL S.  
7th International Conference on Green Design and Manufacture 2021, IConGDM 2021, Virtual, Online, Malaysia, 8 - 09 September 2021, vol.2750
- II. **Ratio of Proportional Limit Load to Ultimate Load of the Joint Constructed from Wood and WoodBased Material**  
Demirel S.  
XXIX TH The International Conference, Research For Furniture Industry, Ankara, Turkey, 19 - 20 September 2019, pp.67-74
- III. **COMPARISON OF USING DIFFERENT GUSSET-PLATE MEMBERIN WOOD JOINTS**  
Demirel S., Kalaycı G.  
4th International Scientific Conference Wood Technology Product Design, Ohrid, Macedonia, 4 - 07 September 2019, pp.179-185
- IV. **Static Lateral Resistance of Face-to-Face Multi-Staple Joints in Turkish Beech and Yellow Pine**  
DEMİREL S., Tor Ö., Zhang J., MALKOÇOĞLU A.  
2. Uluslararası Mobilya Kongresi, Muğla, Turkey, 13 - 15 November 2016, pp.406-410
- V. **The Outdoor Durability of the Picnic Tables Constructed from Different Wood Species Impregnated With Tanalith E and Celcure Ac 500**  
KÖSE DEMİREL G., TEMİZ A., KILINC S., DEMİREL S., AKBAS S.  
II. International Furniture Congress, 13 - 15 October 2016
- VI. **THE OUTDOOR DURABILITY OF THE PICNIC TABLES CONSTRUCTED FROMDIFFERENT WOOD SPECIES IMPREGNETED WITH TANALITH E AND CELCUREAC 500**  
KÖSE DEMİREL G., TEMİZ A., Kılınç S., DEMİREL S., Akbas S.  
II. Uluslararası Mobilya Kongresi, 13 - 15 October 2016
- VII. **DIMENSIONAL STABILITY AND MECHANICAL PROPERTIES OF EPOXIDIZED VEGETABLE OILS AS WOOD PRESERVATIVES**  
KÖSE DEMİREL G., TEMİZ A., DEMİREL S., Jebrane M., Terziev N., GEZER E. D., ERTAŞ M.  
2nd Conference: Innovative production technologies and increased wood products recycling and reuse, Brno, Czech Republic, 29 - 30 September 2016, pp.49-50
- VIII. **Akustik Ahşap Panel ve Kumaşların Mobilya Üretiminde Kullanımı ile Çalışma Ortamlarındaki Ses Yalıtımının İyileştirilmesi**  
DEMİREL S., IŞIKTAŞ K.  
3. Ulusal Mobilya Kongresi, Turkey, 10 - 12 April 2015
- IX. **Improving of Sound Absorbtion in Working Areas with Acoustic Featured Panels and Fabrics Used in Furniture Construction**  
DEMİREL S., IŞIKTAŞ K.  
III. Ulusal Mobilya Kongresi, Konya/TURKEY, Konya, Turkey, 10 - 12 April 2015, pp.69-79
- X. **Mobilya Test Tekniklerinin Ülkemizdeki Durumu ve Uygulanmasının Önemi**  
DEMİREL S., ERGÜN B.  
III. Ulusal Mobilya Kongresi, Konya, Turkey, 10 - 12 April 2015, pp.61-68

- XI. **Using Commercial Water Repellent Chemicals on Wood Protection**  
KÖSE G., TEMİZ A., DEMİREL S., ÖZKAN O. E.  
The International Research Group on Wood Protection, St. George, United States Of America, 11 - 15 May 2014, pp.1-13
- XII. **Static Bending Moment Capacity of T-Type Gusset-Plate Joints in Oriented Strandboard**  
DEMİREL S., Zhang J.  
International Caucasion Forestry Symposium, Artvin, Turkey, 24 - 26 October 2013, pp.924-931
- XIII. **İç mekanlarda Formaldehit Emisyonu**  
DEMİRKIR C., DEMİREL S.  
VIII Ulusal Çevre Problemlerine Öğrenci Yaklaşımları Sempozyumu, İstanbul, Turkey, 4 - 06 May 2007, pp.1-5

## Supported Projects

DEMİREL S., TUBITAK Project, Döşenmiş Mobilyaların Kritik Elemanları olan Süngerlerin Statik-Yorulma ve Tekrarlı-Yorulma Performanslarının Değerlendirilmesi, 2016 - 2017  
Gelişli K., Özgenc Ö., Özbay A. Ş., İskender E., Demirkır C., Demirel S., EU Supported Other Project, Yayla ve Köylere Uygun Ahşap Yapıların İnşaa, Bakım ve Onarım İşlemlerini Gerçekleştirebilecek Nitelikli Elemanların Yetiştirilmesi, 2016 - 2017

## Scientific Refereeing

Kastamonu Üni. Orman Fakültesi Dergisi, National Scientific Refreed Journal, December 2017  
Kasamonu Uni. Orman Fakültesi Dergisi, National Scientific Refreed Journal, April 2017

## Tasks In Event Organizations

Demirel S., 30th International Conference Research for Furniture Industry, Scientific Congress, Poland, Eylül 2022  
Demirel S., International Furniture Congress, Scientific Congress, Turkey, Kasım 2020

## Metrics

Publication: 41  
Citation (WoS): 160  
Citation (Scopus): 171  
H-Index (WoS): 5  
H-Index (Scopus): 5

## Scholarships

1416 Yurtdışı Doktora Bursu, Ministry of Education, 2007 - Continues

## Awards

DEMİREL S., Taktir Belgesi, Milli Eğitim Bakanlığı, July 2011  
DEMİREL S., Outstanding Graduate Student Award (En iyi doktora öğrencisi ödülü), Mississippi State University, April 2011