

Res. Asst. PhD GAYE KÖSE DEMİREL

Personal Information

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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Orman Endüstri Mühendisliği, Turkey 2012 - 2018

Post Graduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Orman Endüstri Mühendisliği, Turkey 2009 - 2012

Under Graduate, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, Turkey 2005 - 2009

Certificates, Courses and Trainings

IT, AutoCAD, MEB, 2006

Dissertations

Doctorate, Odun Korumada Polimerize Edilmiş Bitkisel Yağların Kullanılabilirliğinin Araştırılması, Karadeniz Technical University, Fen Bilimleri, Orman Endüstri Mühendisliği/ Orman Biyolojisi Ve Odun Koruma Tekn., 2018

Post Graduate, Isıl İşlem Sırasında Açığa Çıkan Katranın Odun Koruma Maddesi Olarak Kullanılabilirliği, Karadeniz Technical University, Fen Bilimleri, Orman Endüstri Mühendisliği, 2011

Research Areas

Agricultural Sciences, Forestry, Forest Industry Engineering, Forest Biology and Wood Protection Technology

Academic Titles / Tasks

Research Assistant PhD, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği/ Orman Biyolojisi Ve Odun Koruma Tekn., 2018 - Continues

Research Assistant, Karadeniz Technical University, Fen Bilimleri, Orman Endüstri Mühendisliği, 2011 - 2018

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Decay, insect, and termite resistance of wood modified with epoxidized vegetable oils**
Köse Demirel G., Temiz A., Palanti S., Terziev N.
Holzforschung, vol.75, no.3, pp.281-287, 2021 (Journal Indexed in SCI Expanded)
- II. **Phase change material impregnated wood for passive thermal management of timber buildings**
TEMİZ A., HEKİMOĞLU G., KÖSE DEMİREL G., SARI A., Mohamad Amini M. H.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.13, pp.10495-10505, 2020 (Journal Indexed in SCI)

- III. **Physical properties, thermal and fungal resistance of Scots pine wood treated with nano-clay and several metal-oxides nanoparticles**
Holy S., TEMİZ A., KÖSE DEMİREL G., ASLAN M., Mohamad Amini M. H.
WOOD MATERIAL SCIENCE & ENGINEERING, 2020 (Journal Indexed in SCI)
- IV. **Characterization of tanalith E treated wood flour filled polylactic acid composites**
Dalu M., Temiz A., Altuntas E., Demirel G. K. , Aslan M.
POLYMER TESTING, vol.76, pp.376-384, 2019 (Journal Indexed in SCI)
- V. **Micro-distribution, Water Absorbption and Dimensional Stability of Wood Treated with Epoxidized Plant Oils**
KÖSE DEMİREL G., TEMİZ A., Jebrane M., Terziev N., GEZER E. D.
BIORESOURCES, vol.13, no.3, pp.5124-5138, 2018 (Journal Indexed in SCI Expanded)
- VI. **Effect of Alkyl Ketene Dimer on the Physical, Mechanical, and Biological Durability of Plywood**
Demirel G., GÜDÜL H., TEMİZ A., Kustas S., AYDIN İ.
BIORESOURCES, vol.13, no.1, pp.147-156, 2018 (Journal Indexed in SCI)
- VII. **LEACHING AND DECAY RESISTANCE OF ALDER AND PINE WOOD TREATED WITH COPPER BASED WOOD PRESERVATIVES**
TEMİZ A., Alfredsen G., YILDIZ Ü. C. , GEZER E. D. , Kose G., Akbas S., YILDIZ S.
MADERAS-CIENCIA Y TECNOLOGIA, vol.16, no.1, pp.63-76, 2014 (Journal Indexed in SCI)
- VIII. **Effect of bio-oil and epoxidized linseed oil on physical, mechanical, and biological properties of treated wood**
TEMİZ A., Kose G., Panov D., Terziev N., Alma M. H. , Palanti S., Akbas S.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.130, no.3, pp.1562-1569, 2013 (Journal Indexed in SCI)
- IX. **Chemical Composition and Efficiency of Bio-oil Obtained from Giant Cane (Arundo donax L.) as a Wood Preservative**
TEMİZ A., Akbas S., Panov D., Terziev N., Alma M. H. , Parlak S., Kose G.
BIORESOURCES, vol.8, no.2, pp.2084-2098, 2013 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **AHŞAP KORUMADA ÇEVRE DOSTU MODİFİKASYON YÖNTEMLERİ**
KÖSE DEMİREL G., TEMİZ A.
Selçuk Üniversitesi Teknik Online Dergisi, vol.14, no.1, pp.1016-1032, 2015 (Other Refereed National Journals)
- II. **Ahşap Malzemenin Korunması (Emprenye) ile ilgili sıkça sorulan sorular**
KÖSE DEMİREL G., TEMİZ A.
Mobilya Dergisi, no.114, pp.92-98, 2013 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **NATURAL WEATHERING AND BIOFINISHING OF WOOD MODIFIED WITH EPOXIDIZED VEGETABLE OILS**
Köse Demirel G., Temiz A., Terziev N.
VI. International Furniture Congress, Trabzon, Turkey, 2 - 05 November 2020, pp.82
- II. **Emprenyeli Kızılğacın Dış Ortam Dayanımı**
TEMİZ A., KÖSE DEMİREL G., Kılınç S.
III. International Mediterranean Forest and Environment Symposium, Kahramanmaraş, Turkey, 3 - 05 October 2019, pp.155
- III. **Decay and Insect Resistance of Modified Wood with Epoxidized Plant Oils**
KÖSE DEMİREL G., TEMİZ A., PALANTI S., TERZIEV N.
Final COST AcO on FP1407 International Conference "Living with Modified Wood", Belgrad, Serbia And

Montenegro, 12 - 13 December 2018, pp.86-87

- IV. **Epoksitlendirilmiş Bitkisel Yağların ve Nano-Kilin Odunun Su Alması ve Yanma Özellikleri Üzerine Etkisi**
DEMİR S., TEMİZ A., KÖSE DEMİREL G.
4th International Non-Wood Forest Products Symposium, Bursa, Turkey, 4 - 06 October 2018, pp.132-140
- V. **Micro-distribution of Epoxidized Oils in Wood**
KÖSE DEMİREL G., TEMİZ A., GEZER E. D.
COST FP1407 3rd International Conference- Wood Modification Research and applications, Kuchl, Austria, 14 - 15 September 2017, pp.65-66
- VI. **The Outdoor Durability of the Picnic Tables Constructed from Different Wood Species Impregnated with Tanalith E and Celcure AC500**
Köse Demirel G., Temiz A., Kılınç S., Demirel S., Akbaş S.
II. International Furniture Congress, Muğla, Turkey, 13 October 2016, pp.373-376
- VII. **EVALUATION OPPORTUNITIES OF IMPREGNATED PRODUCTS CONTAINING CREOSOTE THAT COMPLETED THE SERVICE LIFE IN WOOD PLASTIC COMPOSITES (WPCs): SURFACE CHANGES UNDER ACCELERATED WEATHERING**
Akbaş S., TEMİZ A., GEZER E. D. , KÖSE DEMİREL G.
II. International Furniture Congress, Muğla, Turkey, 13 - 15 October 2016, pp.386-392
- VIII. **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
- IX. **Effects of Bio and Epoxidised Oil on Physical and Biological Properties of Treated Wood**
TEMİZ A., GEZER E. D. , Akbaş S., KÖSE DEMİREL G.
Cost Action FP1407 1st Conference Life Cycle Assessment EPDs and Modified Wood, Koper, Slovenia, 25 - 26 August 2015, pp.52-53
- X. **Ahşap Korumada Çevre Dostu Modifikasyon Yöntemleri**
KÖSE DEMİREL G., TEMİZ A.
III. Ulusal Mobilya Kongresi, Konya, Turkey, 10 - 12 April 2015, pp.100-113
- 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. **The Physical Properties of Heat Treated Fir Wood and Outdoor Durability**
ÖZKAN O. E. , Vurdu H., TEMİZ A., KÖSE G.
The International Research Group on Wood Protection 45th Annual Meeting, Utah, United States Of America, 10 - 15 May 2014, pp.1-9
- XIII. **Effect of Climate Factors on Wood Veneers Exposed to Outdoor Conditions in Black Sea Region**
KÖSE G., TEMİZ A., AKBAŞ S., ÖZKAN O. E.
International Caucasian Forestry Symposium, Artvin, Turkey, 24 - 26 October 2013, pp.870-877
- XIV. **Dimensional stability and decay resistance of hardwood species Growing in Turkey**
TEMİZ A., akbaş s., KÖSE G.
The 4th Conference on Hardwood Research and Utilisation in Europe, Sopron, Hungary, 17 - 18 May 2010, pp.163-169
- XV. **Mobilya Üretiminde Kalite ve Kaliteyi Etkileyen Faktörlerin Analizi**
KÖSE G.
VI. Ulusal Orman Fakülteleri Öğrenci Kongresi, Düzce, Turkey, 8 - 09 May 2008, pp.412-417

Supported Projects

Temiz A., Gezer E. D. , Köse Demirel G., TÜBİTAK International Bilateral Joint Cooperation Program Project, Düşük Kaliteli Ağaç Türlerinin Doğal ve Bitkisel Esaslı Polimerler ile Birlikte Yoğunlaştırma İşlemine Tabi Tutularak Özelliklerinin İyileştirilmesi, 2021 - 2023

Köse Demirel G., Temiz A., Sarı A., Aslan M., Yıldırım İ., H2020 Project, BioBased Phase Changes Materials in Lignocellulose Matrix for Energy Store in Buildings. ERA-NET Smart Energy Systems , 2020 - 2023

Temiz A., Gezer E. D. , TUBİTAK Project, Odun Korumada Epoksitlendirilmiş Bitkisel Yağların Kullanılabilirliği ve Borun Yıkınmasına Etkisi, 2014 - 2018

Memberships / Tasks in Scientific Organizations

KAFSA (International Forestry Students' Association), Chairman, 2007 - 2009

Citations

Total Citations (WOS):72

h-index (WOS):4

Scholarships

TÜBİTAK COST- STSM (Short Term Scientific Missions)- İTALYA / Floransa, Other International Organizations, 2017 - 2017

TÜBİTAK 2214/a- Yurt Dışı Doktora Sırası Araştırma Burs Programı (İSVEÇ/ Uppsala -4 ay), University, 2015 - 2016
Bodenkultur Üniversitesi, (5 ay), University, 2010 - 2011