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International Researcher IDs

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Publons / Web Of Science ResearcherID: W-4106-2018

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Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 2019 - Continues

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Turkey 2015 - 2019

Undergraduate, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, Turkey 2010 - 2015

Associate Degree, Ordu University, Technical Sciences Vocational School, İnşaat , Turkey 2007 - 2010

Research Areas

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

Academic Titles / Tasks

Research Assistant, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, 2018 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Bayramoglu, M. M., Demir, A., Birinci, A. U., Ozturk, H., İlhan, O., Candan, Z., and Demirkir, C. (2025). "Effect of lumber quality grade on the mechanical properties and product costs of cross-laminated timber panels**
Demirkir C., Bayramoğlu M. M., Demir A., Öztürk H., Birinci A. U., İlhan O., Candan Z.
BIORESOURCES, vol.20, no.2, pp.3519-3533, 2025 (SCI-Expanded)
- II. **Identification of optimal cutting parameters regarding lacquer wettability of CNC processed MDF panels by artificial neural network**
DEMİR A., BİRİNCİ A. U., İlhan O., ÖZTÜRK H.
WOOD MATERIAL SCIENCE & ENGINEERING, 2024 (SCI-Expanded)
- III. **Determining the effects of timber strength and wood species on the mechanical properties of CLT using non-destructive and destructive methods**
BİRİNCİ A. U., ÖZTÜRK H., DEMİR A., İlhan O., GEZER E. D., DEMİRKİR C.
NONDESTRUCTIVE TESTING AND EVALUATION, 2024 (SCI-Expanded)
- IV. **Determining the Optimum Layer Combination for CrossLaminated Timber Panels According to Timber Strength Classes Using Artificial Neural Networks**
GEZER E. D., BİRİNCİ A. U., DEMİR A., ÖZTÜRK H., İlhan O., DEMİRKİR C.

BIORESOURCES, vol.19, no.3, pp.4899-4917, 2024 (SCI-Expanded)

V. COMPARISON OF THERMAL PERFORMANCES OF PLYWOOD SHEAR WALLS PRODUCED WITH DIFFERENT THERMAL INSULATION MATERIALS

BİRİNCİ A. U., DEMİR A., ÖZTÜRK H.

MADERAS-CIENCIA Y TECNOLOGIA, vol.24, pp.1-12, 2022 (SCI-Expanded)

VI. Determination of the surface characteristics of medium density fibreboard processed with CNC machine and optimisation of CNC process parameters by using artificial neural network

Demir A., Birinci A. U., Öztürk H.

CIRP JOURNAL OF MANUFACTURING SCIENCE AND TECHNOLOGY, vol.35, pp.929-942, 2021 (SCI-Expanded)

Articles Published in Other Journals

I. Yapay Sinir Ağları (YSA) Kullanılarak CLT Perde Duvarların Yanal Yük Altındaki Rijitliklerinin Kereste Direnç Sınıflarına Göre Tahmin Edilmesi

BİRİNCİ A. U., İLHAN O., DEMİR A., DEMİRKİR C.

Düzce Üniversitesi Orman Fakültesi Ormancılık Dergisi, vol.20, no.1, pp.288-307, 2024 (Peer-Reviewed Journal)

II. Investigation of the effect of cladding element and insulation material on lateral load resistance of shear walls

Yücesoy D., İlhan O., Birinci A. U.

Turkish Journal of Forestry, vol.25, no.1, pp.64-70, 2024 (Peer-Reviewed Journal)

III. Deformation of Shear Wall Sheathed with Plywood Produced from Scots Pine and Spruce Wood Under Lateral Load

DEMİR A., BİRİNCİ A. U., ÖZTÜRK H.

Bartın Orman Fakültesi Dergisi, vol.23, no.2, pp.528-535, 2021 (Peer-Reviewed Journal)

IV. Performance under lateral load of CLT walls produced from native wood species

BİRİNCİ A. U., ÖZTÜRK H., DEMİR A.

Turkish Journal of Forestry, vol.22, no.3, pp.318-322, 2021 (Peer-Reviewed Journal)

V. Structural Performance Analysis of Cross Laminated Timber (CLT) Produced From Pine and Spruce Grown in Turkey

BİRİNCİ A. U., ÖZTÜRK H., DEMİRKİR C., ÇOLAKOĞLU G.

JOURNAL OF ANATOLIAN ENVIRONMENTAL AND ANIMAL SCIENCES, vol.5, no.5, pp.819-824, 2020 (Peer-Reviewed Journal)

VI. The Effects of Polystyrene Species and Fiber Direction on Thermal Conductivity of Plywood

Birinci A. U., Öztürk H., Yücesoy D., Demirkır C.

JOURNAL OF ANATOLIAN ENVIRONMENTAL AND ANIMAL SCIENCES, vol.5, no.5, pp.825-828, 2020 (Peer-Reviewed Journal)

VII. Structural Performance Analysis of Cross Laminated Timber (CLT) Produced From Pine and Spruce Grown in Turkey

BİRİNCİ A. U., ÖZTÜRK H., DEMİRKİR C., ÇOLAKOĞLU G.

JOURNAL OF ANATOLIAN ENVIRONMENTAL AND ANIMAL SCIENCES, vol.5, no.5, pp.819-824, 2020 (Peer-Reviewed Journal)

VIII. COMPARISON OF TECHNOLOGICAL PROPERTIES OF PARTICLEBORADS PRODUCED FROM BRANCH AND STEM WOOD OF SEQUOIA

ÇOLAK S., BİRİNCİ A. U., ÇOLAKOĞLU G.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.10, no.1, pp.55-58, 2019 (ESCI)

IX. YAPISAL AHŞAP ÜRÜNLERİNİN ISI YALITIM ÖZELLİKLERİ

ÖZTÜRK H., BİRİNCİ A. U., DEMİRKİR C.

İleri Teknoloji Bilimleri Dergisi, vol.6, no.3, pp.522-527, 2017 (Peer-Reviewed Journal)

Books

- I. **Ahşap Mekanların İnsanlarda Stres Ve Kaygı Üzerine Etkisi**
BİRİNCİ A. U., ÖZTÜRK H., DEMİRKİR C.
in: AHŞAP MALZEME VE YAPI TASARIMI, LAKOT ALEMDAĞ ESRA, Editor, Duvar Yayınları, Ankara, pp.332-345, 2024
- II. **Dünyada Ve Türkiye’de Yapısal Ahşap Malzeme Pazarı**
İLHAN O., BİRİNCİ A. U., ÇOLAK S.
in: Ahşap Malzeme ve Yapı Tasarımı, LAKOT ALEMDAĞ ESRA, Editor, Duvar Yayınları, Ankara, pp.44, 2024
- III. **Atık Pleksi Tozunun Kontrplak Üretiminde Yapıştırıcı Madde Olarak Değerlendirilmesi**
İLHAN O., BİRİNCİ A. U., ÖZTÜRK H.
in: Doğa, Orman ve Ekoturizm: Araştırmalar ve Uygulamalar, MISIR MEHMET, Editor, BİDGE Yayınları, Ankara, pp.200-224, 2024
- IV. **Odun Peleti Üretiminin Dünya’daki ve Türkiye’deki Mevcut Durumu**
İLHAN O., ÇOLAK S., BİRİNCİ A. U.
in: Doğa ve Mühendislik Bilimlerinde Güncel Tartışmalar 6, Çoğun Hikmet Y., Üzmuş Hasan, Parlar İshak, Editor, Bilgin Kültür Sanat Yayınları, Ankara, pp.63-76, 2022

Papers Published in Refereed Scientific Meetings

- I. **The effect of insulation materials on the thermal conductivity of wooden structural panels**
Demirkır C., Öztürk H., Birinci A. U.
III. International Mediterranean Forest and Environment Symposium, Kahramanmaraş, Turkey, 3 - 05 October 2019, pp.866-869
- II. **Comparison of Technological Properties of Particleboards Produced from Branch and Stem Wood of Sequoia**
ÇOLAK S., BİRİNCİ A. U., ÇOLAKOĞLU G.
International Forest Products Congress, Trabzon, Turkey, 26 - 29 September 2018, pp.850-854
- III. **The Effect of Fiber Orientation in The Middle Layer on Some Technological Properties of Parallel Strand Lumber (PSL)**
ÖZTÜRK H., BİRİNCİ A. U., DEMİRKİR C.
1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Giresun, Turkey, 27 - 29 June 2018, pp.1931-1937
- IV. **YAPISAL AHŞAP ÜRÜNLERİNİN ISI YALITIM ÖZELLİKLERİ**
ÖZTÜRK H., BİRİNCİ A. U., DEMİRKİR C.
4. Uluslararası Mobilya ve Dekorasyon Kongresi, Düzce, Turkey, 19 - 21 October 2017, pp.577-581
- V. **Thermal Insulation Properties Of Structural Wood Products**
ÖZTÜRK H., BİRİNCİ A. U., DEMİRKİR C.
4. Uluslararası Mobilya ve Dekorasyon Kongresi, Düzce, Turkey, 19 - 21 October 2017, pp.577-581

Supported Projects

- DEMİRKİR C., ÖZTÜRK H., DEMİR A., GEZER E. D., İLHAN O., BİRİNCİ A. U., BAYRAMOĞLU M. M., Project Supported by Higher Education Institutions, Çapraz Lamine Ahşap (CLT) Üretim Faktörlerinin CLT Maliyeti Üzerine Etkisinin Araştırılması, 2023 - 2024
- Demirkır C., Altunışık A. C., Özşahin Ş., Gezer E. D., Öztürk H., Demir A., TUBITAK Project, CLT Üretimi İçin Kereste Kalite Ve Direnç Sınıfı Optimizasyon Modeli Geliştirilmesi, 2021 - 2023
- Demirkır C., Altunışık A. C., Çolak S., Çolakoğlu G., Aydın İ., Özşahin Ş., TUBITAK Project, Kontrplak Kaplı Ahşap Yapı Perde Duvarlarının Yapısal Davranışları Ve Sismik Dayanım Performanslarının Belirlenmesi, 2015 - 2018

Metrics

Publication: 26

Citation (WoS): 10

Citation (Scopus): 10

H-Index (WoS): 1

H-Index (Scopus): 1

Congress and Symposium Activities

THE INTERNATIONAL FOREST PRODUCTS CONGRESS, Attendee, Trabzon, Turkey, 2018

1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, Attendee, Giresun, Turkey, 2018

4.Uluslararası Mobilya ve Dekorasyon Kongresi, Attendee, Düzce, Turkey, 2017