

Asst. Prof. MERT YILDIRIM

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Publons / Web Of Science ResearcherID: AES-2671-2022

ScopusID: 57347422000

Education Information

Doctorate, İstanbul University-Cerrahpaşa, Institute Of Graduate Education, Department Of Forest Industry Engineering, Turkey 2019 - 2023

Postgraduate, İstanbul University, İşletme İktisadi Enstitüsü, MBA, Turkey 2018 - 2019

Postgraduate, İstanbul University-Cerrahpaşa, Institute Of Graduate Education, Department Of Forest Industry Engineering, Turkey 2016 - 2019

Undergraduate, İstanbul University-Cerrahpaşa, Faculty Of Forest, Department Of Forestry Industrial Engineering, Turkey 2011 - 2015

Certificates, Courses and Trainings

Environment and Sustainability, Kurumsal Karbon Ayak İzi, İstanbul Sanayi Odası, 2023

Dissertations

Doctorate, Doğal biyonomalzemeler ile güçlendirilmiş akıllı kompozitlerin geliştirilmesi ve karakterizasyonu, İstanbul University-Cerrahpaşa, Institute Of Graduate Education, Department Of Forest Industry Engineering, 2023

Postgraduate, Nanoselüloz ve bor bileşiklerinin ahşap kompozit levhaların performans özelliklerine etkisi, İstanbul University-Cerrahpaşa, Institute Of Graduate Education, Department Of Forest Industry Engineering, 2019

Research Areas

Engineering and Technology

Academic Titles / Tasks

Assistant Professor, İstanbul Gelisim University, FACULTY OF ENGINEERING AND ARCHITECTURE, INDUSTRIAL ENGINEERING<, 2023 - Continues

Courses

Havacılık Malzemeleri ve Üretim Yöntemleri, Postgraduate, 2024 - 2025

Ar-Ge ve İnovasyon, Undergraduate, 2024 - 2025

Kompozit Malzemeler, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Preparation and Characterization of Transparent Advanced Smart Nanocomposites Reinforced by Nanofibrillated Cellulose/Poly(methyl methacrylate)/Methyl methacrylate/Benzoyl Peroxide**
Yildirim M., Candan Z.
BioResources, vol.19, no.3, pp.5435-5449, 2024 (SCI-Expanded)
- II. **Development and characterization of smart composites reinforced with fibrillated cellulose and nickel-titanium alloy**
Yildirim M., Mutlu İ., Candan Z.
International Journal of Biological Macromolecules, vol.267, 2024 (SCI-Expanded)
- III. **Thermal properties of cellulose nanofibrils and nickel-titanium alloy-reinforced sustainable smart composites**
Yildirim M., Mutlu İ., Candan Z.
Wood Material Science and Engineering, vol.19, no.3, pp.557-563, 2024 (SCI-Expanded)
- IV. **PERFORMANCE CHARACTERIZATION OF PLYWOOD PANELS BONDED WITH MELAMINE-UREA-FORMALDEHYDE RESIN AND CELLULOSE NANOFIBRIL/BORAX AS AN ADDITIVE**
Yildirim M., Candan Z., Akbulut T., Gardner D. J., Shaler S. M.
Maderas: Ciencia y Tecnologia, vol.26, 2024 (SCI-Expanded)
- V. **Performance properties of engineered wood composites reinforced by lignosulfonates**
Yildirim M., Candan Z., Aksoy B., Dündar T.
Green Materials, vol.11, no.2, pp.60-68, 2022 (SCI-Expanded)
- VI. **Chemical performance analysis of nanocellulose/boron-compound-reinforced hybrid UF resin**
Yildirim M., CANDAN Z., Gonultas O.
Green Materials, vol.10, no.2, pp.90-96, 2021 (SCI-Expanded)
- VII. **Performance Properties of Particleboard Panels Modified with Nanocellulose/Boric Acid**
Yildirim M., CANDAN Z.
BioResources, vol.16, no.1, pp.1875-1890, 2021 (SCI-Expanded)
- VIII. **Development and characterization of hybrid composites from sustainable green materials**
Yildirim M., Negawo T. A., Kılıç A., CANDAN Z.
Green Materials, vol.9, no.4, pp.182-191, 2020 (SCI-Expanded)

Books & Book Chapters

- I. **3 - Nanocellulose: Sustainable biomaterial for developing novel adhesives and composites**
CANDAN Z., TOZLUOĞLU A., GÖNÜLTAŞ O., YILDIRIM M., FİDAN H., ALMA M. H., SALAN T.
in: Industrial Applications of Nanocellulose and Its Nanocomposites, Sapuan S.M., Norrrahim M.N.F., Ilyas R.A. Soutis Constantinos, Editor, Woodhead Publishing, pp.49-137, 2022

Refereed Congress / Symposium Publications in Proceedings

- I. **An Insight into the Next-Generation Smart Membranes**
YILDIRIM M., CANDAN Z.
The 7th International Electronic Conference on Water Sciences, Basel, Switzerland, 15 - 30 March 2023, vol.25, pp.19

- II. **Advanced Renewable Nanomaterials for Sustainable Development**
YILDIRIM M., CANDAN Z.
The 3rd International Electronic Conference on Applied Sciences, Basel, Switzerland, 1 - 15 December 2022, vol.31, pp.52
- III. **Renewable Energy: A Global Solution to Combating Climate Change**
YILDIRIM M., CANDAN Z.
10th Global Conference on Global Warming (GCGW-2022), Sharjah, United Arab Emirates, 7 - 10 November 2022, pp.15
- IV. **Nanotechnology in the furniture industry: applications and future perspectives**
YILDIRIM M., CANDAN Z.
30th International Conference Research for Furniture Industry, Poznan, Poland, 22 - 23 September 2022, pp.133-135
- V. **Recent developments and trends in furniture coatings**
YILDIRIM M., CANDAN Z.
30th International Conference Research for Furniture Industry, Poznan, Poland, 22 - 23 September 2022, pp.112-115
- VI. **Cellulose Nanomaterials for Water Purification in Membrane Technology: A Review**
Yıldırım M., Candan Z.
18th International Conference of Young Scientists on Energy and Natural Sciences Issues (CYSENI 2022), Kaunas, Lithuania, 24 - 27 May 2022, pp.463-466
- VII. **Sürdürülebilir ve Yeşil Lignoselülozik Biyonanomazemelere Genel Bir Bakış**
Yıldırım M., Candan Z.
IV. Ulusal Karadeniz Ormanlık Kongresi, Trabzon, Turkey, 6 - 09 December 2021
- VIII. **Nanocellulose in Energy Applications: Current Status and Future Prospect**
YILDIRIM M., CANDAN Z.
TÜBA World Conference on Energy Science and Technology (TÜBA WCEST-2021), Turkey, 8 - 12 August 2021, pp.131-132
- IX. **Usage Potential of Lignocellulosic Nanomaterials in Eco-Friendly Applications**
YILDIRIM M., CANDAN Z.
10th International Ecology Symposium, Bursa, Turkey, 26 - 28 November 2020, pp.1-11
- X. **Effect of Nanocellulose and Borax on Formaldehyde Emission of Plywood Panels**
Yıldırım M., Candan Z.
International Forest Products Congress (ORENKO 2020), Trabzon, Turkey, 23 - 26 September 2020, pp.24
- XI. **Developing Innovative, Environmentally Friendly and High Performance Composites**
Yıldırım M., Candan Z.
1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018), İstanbul, Turkey, 4 - 06 October 2018, pp.111

Supported Projects

Yıldırım M., TUBITAK Project, Yüksek Performanslı Mobilyalar İçin Hibrit Biyokompozitlerin Geliştirilmesi, 2017 - 2018

Memberships / Tasks in Scientific Organizations

Technical Association of the Pulp and Paper Industry (TAPPI), Member, 2020 - Continues, United States Of America
International Society of Wood Science and Technology (SWST), Member, 2017 - Continues, United States Of America

Metrics

Publication: 20

Citation (Scopus): 80

H-Index (Scopus): 4

Congress and Symposium Activities

The 13th International Conference on Key Engineering Materials (ICKEM 2023), Attendee, İstanbul, Turkey, 2023

10th Global Conference on Global Warming (GCGW-2022), Attendee, Sharjah, United Arab Emirates, 2022

30th International Conference Research for Furniture Industry, Attendee, Poznan, Poland, 2022

18th International Conference of Young Scientists on Energy and Natural Sciences Issues (CYSENI 2022), Attendee, Kaunas, Lithuania, 2022

TUBA World Conference on Energy Science and Technology, Attendee, Ankara, Turkey, 2021

10th International Ecology Symposium, Attendee, Bursa, Turkey, 2020

SWST - 63th International Convention of Society of Wood Science and Technology, Attendee, Piran, Slovenia, 2020

6th MEMTEK International Symposium on Membrane Technologies and Applications, Attendee, İstanbul, Turkey, 2019

COST Action FP1407 Final Conference, Attendee, Belgrade, Serbia, 2018

1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018), Attendee, İstanbul, Turkey, 2018

COST Action FP1407 3rd Conference, Attendee, Salzburg, Austria, 2017

Awards

Yıldırım M., TET Proje Pazarı 12, T.C. Ticaret Bakanlığı, Türkiye İhracatçılar Meclisi, İstanbul Maden Ve Metaller İhracatçı Birlikleri, Elektrik Ve Elektronik İhracatçıları Birliği , February 2024

Yıldırım M., TÜBİTAK - 2238 Üniversite Girişimcilik ve Yenilikçilik Yarışması, Tübitak , November 2017

Yıldırım M., 7. Kimya Ar-Ge Proje Pazarı, T.C. Ekonomi Bakanlığı, Tim (Türkiye İhracatçılar Meclisi), İkmib (İstanbul Kimyevi Maddeler Ve Mamulleri İhracatçıları Birliği), Akmiib (Akdeniz Kimyevi Maddeler Ve Mamulleri İhracatçıları Birliği), Türkiye Bilimsel Ve Teknolojik Araştırma Kurumu (Tübitak), November 2017

Yıldırım M., 3. Mobilya Ar-Ge Proje Pazarı, T.C. Ekonomi Bakanlığı, Tim (Türkiye İhracatçılar Meclisi), İkmib (İstanbul Kimyevi Maddeler Ve Mamulleri İhracatçıları Birliği), Akmiib (Akdeniz Kimyevi Maddeler Ve Mamulleri İhracatçıları Birliği), Türkiye Bilimsel Ve Teknolojik Araştırma Kurumu (Tübitak), November 2015