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Education Information

Doctorate, Bülent Ecevit Üniversitesi, Fen Bilimleri Enstitüsü, Orman Endüstri Mühendisliği, Turkey 1998 - 2004

Postgraduate, Karadeniz Technical University, -, Orman Endüstri Mühendisliği, Turkey 1994 - 1997

Undergraduate, Karadeniz Technical University, Orman Fakültesi, Orman Endüstri Mühendisliği, Turkey 1990 - 1994

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, İşletmelerde Performans Ölçüm ve Denetimi için Bilgisayar Programı Hazırlanması ve Bir Orman Endüstri İşletmesi Uygulaması, Bülent Ecevit Üniversitesi, Orman Endüstri Mühendisliği, 2004

Postgraduate, Okaliptüs (Eucalyptus camaldulensis) Odunundan Kereste Üretimi ve Bilgisayar Programı Yardımıyla Randıman Hesaplamaları, Karadeniz Technical University, Orman Endüstri Mühendisliği, 1997

Research Areas

Industrial Engineering , Optimization Theory and Methods, Heuristic Methods, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2015 - Continues

Assistant Professor, Karadeniz Technical University, Mühendislik Fakültesi, Endüstri Mühendisliği, 2013 - 2015

Assistant Professor, Karadeniz Technical University, Enerji Sistemleri Mühendisliği, -, 2012 - 2013

Assistant Professor, Karadeniz Technical University, Of Teknik Eğitim Fakültesi , , 2008 - 2012

Lecturer PhD, Karadeniz Technical University, Hopa Myo, , 2004 - 2008

Lecturer, Karadeniz Technical University, Hopa Myo, , 2000 - 2004

Academic and Administrative Experience

Karadeniz Technical University, Of Teknoloji Fakültesi, Ağaç İşleri Endüstrisi Mühendisliği Bölümü, 2012 - 2013

Karadeniz Technical University, Of Teknik Eğitim Fakültesi, Mobilya Ve Dekorasyon Eğitimi Bölümü, 2008 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Prioritization of laminate flooring selection criteria from experts' perspectives: a spherical fuzzy AHP-based model**
Singer H., ÖZŞAHİN Ş.
ARCHITECTURAL ENGINEERING AND DESIGN MANAGEMENT, vol.18, no.6, pp.911-926, 2022 (SCI-Expanded)
- II. **Prediction of noise emission in the machining of wood materials by means of an artificial neural network**
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- III. **Prioritization of factors affecting surface roughness of wood and wood-based materials in CNC machining: a fuzzy analytic hierarchy process model**
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- IV. **Applying an interval-valued Pythagorean fuzzy analytic hierarchy process to rank factors influencing wooden outdoor furniture selection**
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- V. **Artificial neural-network optimisation of nail size and spacings of plywood shear wall**
DEMİR A., DEMİRKİR C., ÖZŞAHİN Ş., AYDIN İ.
WOOD MATERIAL SCIENCE & ENGINEERING, 2021 (SCI-Expanded)
- VI. **A MULTIPLE CRITERIA ANALYSIS OF FACTORS INFLUENCING SURFACE ROUGHNESS OF WOOD AND WOOD-BASED MATERIALS IN THE PLANING PROCESS**
Singer H., ÖZŞAHİN Ş.
CERNE, vol.26, no.1, pp.58-65, 2020 (SCI-Expanded)
- VII. **Artificial neural network analysis of the effect of matrix size and milling time on the properties of flake Al-Cu-Mg alloy particles synthesized by ball milling**
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PARTICULATE SCIENCE AND TECHNOLOGY, vol.37, no.3, pp.381-390, 2019 (SCI-Expanded)
- VIII. **Selection of Softwood Species for Structural and Non-Structural Timber Construction by Using the Analytic Hierarchy Process (AHP) and the Multi-Objective Optimization on the Basis of Ratio Analysis (MOORA)**
ÖZŞAHİN Ş., Singer H., TEMİZ A., YILDIRIM İ.
BALTIC FORESTRY, vol.25, no.2, pp.281-288, 2019 (SCI-Expanded)
- IX. **Prediction of effect of reinforcement content, flake size and flake time on the density and hardness of flake AA2024-SiC nanocomposites using neural networks**
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.739, pp.1005-1014, 2018 (SCI-Expanded)
- X. **Prediction of equilibrium moisture content and specific gravity of heat treated wood by artificial neural networks**
ÖZŞAHİN Ş., Murat M.
EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS, vol.76, no.2, pp.563-572, 2018 (SCI-Expanded)
- XI. **Artificial neural network-based prediction technique for coating thickness in Fe-Al coatings fabricated by mechanical milling**
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- XII. **Employing an analytic hierarchy process to prioritize factors influencing surface roughness of wood and wood-based materials in the sawing process**
SINGER H., ÖZŞAHİN Ş.
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, vol.42, no.5, pp.364-371, 2018 (SCI-Expanded)
- XIII. **AN APPLICATION OF ARTIFICIAL NEURAL NETWORKS FOR MODELING FORMALDEHYDE EMISSION BASED ON PROCESS PARAMETERS IN PARTICLEBOARD MANUFACTURING PROCESS**

- AKYÜZ İ., ÖZŞAHİN Ş., TİRYAKİ S., Aydın A.
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, vol.19, pp.1449-1458, 2017 (SCI-Expanded)
- XIV. **Employing artificial neural networks for minimizing surface roughness and power consumption in abrasive machining of wood**
TİRYAKİ S., ÖZŞAHİN Ş., AYDIN A.
EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS, vol.75, no.3, pp.347-358, 2017 (SCI-Expanded)
- XV. **ARTIFICIAL NEURAL NETWORK MODELING TO PREDICT OPTIMUM POWER CONSUMPTION IN WOOD MACHINING**
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- XVI. **Artificial neural network to predict the effect of heat treatment, reinforcement size, and volume fraction on AlCuMg alloy matrix composite properties fabricated by stir casting method**
ÇANAKÇI A., VAROL T., ÖZŞAHİN Ş.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.78, pp.305-317, 2015 (SCI-Expanded)
- XVII. **Modeling of the Prediction of Densification Behavior of Powder Metallurgy Al-Cu-Mg/B4C Composites Using Artificial Neural Networks**
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş.
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- XVIII. **Comparison of artificial neural network and multiple linear regression models to predict optimum bonding strength of heat treated woods**
TİRYAKİ S., ÖZŞAHİN Ş., YILDIRIM İ.
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- XIX. **Prediction of Non-Wood Forest Products Trade Using Artificial Neural Networks**
YILDIRIM İ., ÖZŞAHİN Ş., OKAN O. T.
JOURNAL OF AGRICULTURAL SCIENCE AND TECHNOLOGY, vol.16, pp.1493-1504, 2014 (SCI-Expanded)
- XX. **Prediction of Effect of Reinforcement Size and Volume Fraction on the Abrasive Wear Behavior of AA2014/B4Cp MMCs Using Artificial Neural Network**
ÇANAKÇI A., ÖZŞAHİN Ş., VAROL T.
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- XXI. **Prediction of the influence of processing parameters on synthesis of Al₂O₃-B₄C composite powders in a planetary mill using an artificial neural network**
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SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.21, no.3, pp.411-420, 2014 (SCI-Expanded)
- XXII. **Prediction of the optimum veneer drying temperature for good bonding in plywood manufacturing by means of artificial neural network**
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- XXIII. **EVALUATION AND OPTIMIZATION OF BENDING MOMENT CAPACITY OF CORNER JOINTS WITH DIFFERENT BORING PLANS IN CABINET CONSTRUCTION**
Malkocoglu A., Yerlikaya N. C., ÖZŞAHİN Ş.
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- XXIV. **Artificial neural network modeling to effect of reinforcement properties on the physical and mechanical properties of Al₂O₃-B₄C composites produced by powder metallurgy**
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş.
COMPOSITES PART B-ENGINEERING, vol.54, pp.224-233, 2013 (SCI-Expanded)
- XXV. **Optimization of process parameters in oriented strand board manufacturing with artificial neural network analysis**
Ozsahin S.
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- XXVII. **Analysis of the effect of a new process control agent technique on the mechanical milling process using a neural network model: Measurement and modeling**
ÇANAKÇI A., VAROL T., ÖZŞAHİN Ş.
MEASUREMENT, vol.46, no.6, pp.1818-1827, 2013 (SCI-Expanded)
- XXVIII. **Prediction of effect of volume fraction, compact pressure and milling time on properties of Al-Al2O3 MMCs using neural networks**
ÇANAKÇI A., VAROL T., ÖZŞAHİN Ş.
METALS AND MATERIALS INTERNATIONAL, vol.19, no.3, pp.519-526, 2013 (SCI-Expanded)
- XXIX. **Modeling the influence of a process control agent on the properties of metal matrix composite powders using artificial neural networks**
ÇANAKÇI A., ÖZŞAHİN Ş., VAROL T.
POWDER TECHNOLOGY, vol.228, pp.26-35, 2012 (SCI-Expanded)
- XXX. **THE USE OF AN ARTIFICIAL NEURAL NETWORK FOR MODELING THE MOISTURE ABSORPTION AND THICKNESS SWELLING OF ORIENTED STRAND BOARD**
Ozsahin S.
BIORESOURCES, vol.7, no.1, pp.1053-1067, 2012 (SCI-Expanded)
- XXXI. **PREDICTION OF THE FINANCIAL RETURN OF THE PAPER SECTOR WITH ARTIFICIAL NEURAL NETWORKS**
YILDIRIM İ., ÖZŞAHİN Ş., AKYÜZ K. C.
BIORESOURCES, vol.6, no.4, pp.4076-4091, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Prediction of Surface Roughness and Adhesion Strength of Wood by Artificial Neural Networks**
ÖZŞAHİN Ş., SINGER H.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGİSİ, vol.22, no.4, pp.889-900, 2019 (ESCI)
- II. **Odun Yüzey Pürüzlülüğü Tahmininde Bir Yapay Sinir Ağı Modelinin Kullanılması**
ÖZŞAHİN Ş., SINGER H.
DÜZCE ÜNİVERSİTESİ BİLİM VE TEKNOLOJİ DERGİSİ, vol.7, no.3, pp.1764-1777, 2019 (Peer-Reviewed Journal)
- III. **Development of an Artificial Neural Network Model to Minimize Power Consumption in the Milling of Heat-Treated and Untreated Wood**
ÖZŞAHİN Ş., SINGER H.
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- IV. **Artificial Neural Network-Based New Methodology for Modeling of Asphalt Mixtures and Comparison with IKE Method**
İSKENDER E., AKSOY A., ÖZŞAHİN Ş., KAHRAMAN H. T., KONAK S. D.
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- V. **Artificial Neural Network Approach to Predict the Abrasive Wear of AA2024-B4C Composites**
ÇANAKÇI A., VAROL T., ÖZŞAHİN Ş., ÖZKAYA S.
Universal Journal of Materials Science, no.6, pp.111-118, 2014 (Peer-Reviewed Journal)
- VI. **Okalıptüs Tomruklarından Kereste Biçme Teknikleri**
ÇOLAKOĞLU G., ÖZŞAHİN Ş., AYDIN İ.
Ahşap Yapı Malzemeleri & Sektör Dergisi, no.10, pp.32-36, 2002 (Non Peer-Reviewed Journal)
- VII. **Fayda-Değer Analizi Bilgisayar Programı ve Bartın-İnkumu Tatil Beldesinde Uygulanışı**
AYTEKİN A., SARAÇOĞLU N., KARAYILMAZLAR S., ÖZŞAHİN Ş.
PAMUKKALE ÜNİVERSİTESİ MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.7, no.2, pp.295-303, 2001 (Peer-Reviewed Journal)
- VIII. **Quick Basic Programlama Diliyle İşletmelerde Bireysel Performans Değerlemeye Yönelik Bir Paket**

Programın Geliştirilmesi

BARLI Ö., ÖZŞAHİN Ş.

Standard Ekonomik ve Teknik Dergi, no.442, pp.68-72, 1998 (Non Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Using the Anfis Approach to Predict the Noise Level in the Machining of Wood Materials**
SİNGER H., ÖZŞAHİN Ş.
International Black Sea Coastline Countries Symposium-III, Zonguldak, Turkey, 18 - 20 October 2019, pp.27-36
- II. **Evaluation of Some Natural Spring Waters in the Eastern Black Sea Region Based on Elements An Integrated Mcdm Approach**
SİNGER H., ÖZŞAHİN Ş.
International Black Sea Coastline Countries Symposium-III, Zonguldak, Turkey, 18 - 20 October 2019, pp.15-26
- III. **A Prioritization Study with the Fuzzy Analytic Hierarchy Process Method: Analyzing Wood Surface Roughness Factors**
ÖZŞAHİN Ş., SİNGER H.
International Congress of Academic Research, Bolu, Turkey, 16 - 18 September 2019, pp.25-35
- IV. **Multi-criteria Evaluation of Heavy Metal Pollution of Coruh River Basin**
ÖZŞAHİN Ş., SİNGER H.
International Congress of Academic Research, Bolu, Turkey, 16 - 18 September 2019, pp.36-44
- V. **Comparison of Artificial Neural Network and Multiple Linear Regression Models in Predicting the Surface Roughness of Wood**
SİNGER H., ÖZŞAHİN Ş.
3rd International Engineering Research Symposium INERS'19, Düzce, Turkey, 5 - 07 September 2019, pp.266-274
- VI. **Prioritization of Factors Influencing Surface Roughness: An Application for the Forest Industry**
SİNGER H., ÖZŞAHİN Ş.
", 3rd International Engineering Research Symposium INERS'19, Düzce, Turkey, 5 - 07 September 2019, pp.259-265
- VII. **Estimation of The Effects of Veneer Drying Temperatures on Thermal Conductivity of Plywood with Artificial Neural Network Modelling**
ÖZŞAHİN Ş., AYDIN İ., DEMİR A.
Karadeniz 2. Uluslararası Uygulamalı Bilimler Kongresi, Rize, Turkey, 23 - 25 August 2019, pp.240-250
- VIII. **Optimization of Veneer Drying Temperature for the Best Mechanical Properties of Plywood via Artificial Neural Network**
ÖZŞAHİN Ş., DEMİR A., AYDIN İ.
THE INTERNATIONAL FOREST PRODUCTS CONGRESS, Trabzon, Turkey, 26 - 29 September 2018, vol.1, pp.697-707
- IX. **Employing a Multi-Criteria Decision Making Method to Evaluate Engineered Wood Products and Timber**
SİNGER H., ÖZŞAHİN Ş.
The International Forest Products Congress ORENKO 2018, Trabzon, Turkey, 26 - 29 September 2018, pp.743-755
- X. **Modeling the Effects of Process Parameters on the Surface Roughness of Wood Using Artificial Neural Networks**
ÖZŞAHİN Ş., SİNGER H.
The International Forest Products Congress ORENKO 2018, Trabzon, Turkey, 26 - 29 September 2018, pp.708-720
- XI. **Orman Ürünleri Sanayinde Tedarik Zinciri Yönetiminin Benimsenmesi ve Müşteri İlişkileri**
YILDIRIM İ., AKYÜZ K. C., AYDIN A., ÖZŞAHİN Ş., AKYÜZ İ.
International Symposium of Applied Business Management and Economics Researches ISABMER, Bayburt, Turkey, 3 - 05 May 2018, pp.99-100
- XII. **Orman Ürünleri Sanayi Çalışanlarında Motivasyon ve İş Yaşam Kalitesinin Belirlenmesi**
YILDIRIM İ., HAN M., AKYÜZ K. C., AYDIN A., ÖZŞAHİN Ş.

International Symposium of Applied Business Management and Economics Researches ISABMER, Bayburt, Turkey, 3 - 05 May 2018, pp.101-102

- XIII. **Application of Artificial Neural Network for Prediction of Coating Thickness in Fe-Al Coatings**
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- XIV. **Prediction of the Effect of Matrix Size and Milling Time on the Particle Size of Flake Al-Cu-Mg Alloy Particles Using Neural Networks**
VAROL T., ÖZŞAHİN Ş.
3rd International Porous and Powder Materials Symposium and Exhibition PPM 2017, İzmir, Turkey, 12 - 15 September 2017, pp.237-241
- XV. **Data Envelopment Analysis for Effectiveness of Health Care Systems of Provinces: A Case Study in Turkey**
MURAT M., AYYILDIZ E., ÖZÇELİK G., ÖZŞAHİN Ş.
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- XVI. **An Application on the Similarity of Turkey to the EU in terms of the Quality of Life Using Clustering Analysis**
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3rd International Researchers, Statisticians and Young Statisticians Congress, 24 - 26 May 2017
- XVII. **Forecasting the Amount of Sulfur Dioxide (SO₂) and Particulate Matter (PM₁₀) in the Air Using Grey Prediction and ARIMA Methods**
ALÇI A., MURAT M., ÖZŞAHİN Ş.
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- XVIII. **Location Selection for Solar Energy Fields Using Multi Criteria Decision Making Methods: Case of Turkey**
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- XIX. **Karar Verme Sürecinde Simülasyon Tekniğinin Kullanımı ve Özel Bir Çay İşleme Tesisinde Uygulama**
KARADAĞ T., ÇAVDAR E., MEYDANKAŞ M., BAHADIR D. N., SANDIKÇI C., AKŞEHİR M. Y., DEMİRCİ E., ÖZŞAHİN Ş., AYYILDIZ E.
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- XX. **Kuzeydoğu Anadolu Bölgesinde Kurulacak Hava Ayırıştırma Tesisi için AHP ve PROMETHEE Teknikleri ile Yer Seçimi**
YILMAZ H., SAĞLAM C., SARIOĞLU A., ALÇI A., ÖZŞAHİN Ş.
17th International Symposium on Econometrics, Operations Research and Statistics, Sivas, Turkey, 2 - 04 June 2016, pp.587-588
- XXI. **Application of Back-Propagation Neural Network Technique to Prediction of the Abrasive Wear Behavior of Al₂O₃/B₄C Composite**
ÇANAKÇI A., VAROL T., ÖZŞAHİN Ş.
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- XXII. **Prediction Model for Densification Behavior of Powder Metallurgy Al-Cu-Mg/B₄C Composites**
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş., İPEK H.
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- XXIII. **The Prediction of Properties of B₄C Particle Reinforced Metal Matrix Composites Using Artificial Neural Networks**
VAROL T., ÇANAKÇI A., ÖZŞAHİN Ş.
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- XXIV. **Artificial Neural Network Approach for the Prediction of Coating Thickness in Fe-Al Coatings**

Fabricated by Mechanical Milling

ÇANAKÇI A., ERDEMİR F., VAROL T., ÖZŞAHİN Ş., ÖZKAYA S.

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- XXV. **Analysis of the prediction of compressibility of powder metallurgy Al₂O₃-B₄C composites using artificial neural networks**
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7th International Powder Metallurgy Conference and Exhibition, Ankara, Turkey, 24 - 28 June 2014, pp.24-25
- XXVI. **Mekanik öğütme işlemi üzerine yeni bir işlem kontrol katkısı tekniği etkisinin bir yapay sinir ağı modeli kullanılarak analizi**
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II. Ulusal Ege Kompozit Malzemeler Sempozyumu, İzmir, Turkey, 7 - 09 November 2013, pp.221-228
- XXVII. **Artificial Neural Network Approach to Predict of Effect of Process Control Agent on the Microhardness of Al-Al₂O₃ Composite Powders Produced by Mechanical Alloying**
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- XXVIII. **Artificial Neural Network Approach to Predict of Effect of Process Control Agent on Particle Size of Al-%10 Al₂O₃ Composite Powders Fabricated by Mechanical Alloying**
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- XXIX. **Orman Ürünleri ve Kağıt Sanayi Sektörlerinin Türkiye Ekonomisindeki Yeri ve Önemi**
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V. Ulusal Orman Fakülteleri Öğrenci Kongresi, Trabzon, Turkey, 29 April - 01 May 2004, vol.2, pp.37-41
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II. Ulusal Karadeniz Ormanlık Kongresi, Artvin, Turkey, 15 - 18 May 2002, vol.3, pp.965-971
- XXXI. **Statistical Quality Control in Forest Product Industry: A Case Study**
AYTEKİN A., KARAYILMAZLAR S., GAVCAR E., ÖZŞAHİN Ş.
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- XXXII. **Preparing Drying Schedules of Fraxinus excelsior L. By Computer Program**
AYTEKİN A., KAYGIN B., KARAYILMAZLAR S., ÖZŞAHİN Ş.
New and Nontraditional Plants and Prospects of Their Utilization, the 3rd International Symposium, Pushino-Moscow, Russia, 21 - 25 June 1999, pp.181-183

Supported Projects

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