

## **Prof. ETEM KARAKAYA**

### **Personal Information**

**Email:** etem.karakaya@ogu.edu.tr

**Other Email:** ekarakaya@gmail.com

**Web:** <https://avesis.ogu.edu.tr/B0423>

**Address:** etem.karakaya@ogu.edu.tr

### **International Researcher IDs**

ScholarID: 10a9TikAAAAJ

ORCID: 0000-0003-0905-9116

ScopusID: 55704518100

Yoksis Researcher ID: 52846

### **Education Information**

Doctorate, The Nottingham Trent University, Economics and Social Sciences, Economics, United Kingdom 1995 - 2001

Postgraduate, University of Leicester, EAS, Economics, United Kingdom 1994 - 1995

Undergraduate, Ankara University, Faculty Of Political Sciences, Department Of Economics, Turkey 1988 - 1992

### **Foreign Languages**

English, C2 Mastery

### **Dissertations**

Doctorate, The Welfare and Production Effects of Turkey's Customs Union Agreement with the EU : The Case of Turkish Manufacturing, The Nottingham Trent University, economics, economics, 2001

### **Research Areas**

Economics, International Economics

### **Academic Titles / Tasks**

Professor, Eskisehir Osmangazi University, İKTİSADİ VE İDARİ BİLİMLER FAKÜLTESİ, İKTİSAT BÖLÜMÜ, 2021 - Continues

Professor, Aydın Adnan Menderes University, Faculty Of Economics And Administrative Sciences, 2014 - 2021

Associate Professor, Aydın Adnan Menderes University, Faculty Of Economics And Administrative Sciences, 2009 - 2014

Associate Professor, Izmir University Of Economics, Faculty Of Economics And Administrative Sciences, 2008 - 2013

Researcher, Rutgers, The State University of New Jersey, New Brunswick Campus, Center for Energy Economy and Environment Program, 2011 - 2011

Assistant Professor, Aydın Adnan Menderes University, Faculty Of Economics And Administrative Sciences, 2002 - 2009

Research Assistant, Aydın Adnan Menderes University, Faculty Of Economics And Administrative Sciences, 1993 - 2002

## Academic and Administrative Experience

Dean, Aydin Adnan Menderes University, Faculty Of Economics And Administrative Sciences, 2015 - 2016

Head of Department, Aydin Adnan Menderes University, Faculty Of Economics And Administrative Sciences, 2011 - 2016

Research Institute Director, Aydin Adnan Menderes University, 2004 - 2005

## Courses

Dünya Ekonomisi, Undergraduate, 2023 - 2024

Türkiye Ekonomisi, Undergraduate, 2023 - 2024

AB Ekonomisi, Undergraduate, 2022 - 2023

Makroekonomi, Undergraduate, 2022 - 2023

Mikroekonomi, Undergraduate, 2023 - 2024

Avrupa Ekonomik Entegrasyonu ve Dünya Ekonomisi, Postgraduate, 2022 - 2023

## Jury Memberships

Competition, Tubitak Liseler Arası İklim Değişikliği Yarışması, Eskisehir Osmangazi University, April, 2023

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

- I. **The rebound effect of material and energy efficiency for the EU and its major trading partners**  
KARAKAYA E., Alataş S., Erkara E., Mert B., Akdoğan T., Hiçyılmaz B.  
Energy Economics, vol.134, 2024 (SSCI)
- II. **Material demand and material efficiency for sustainable development in the European Union countries: A stochastic frontier analysis**  
Alatas S., Hicyilmaz B., KARAKAYA E.  
SUSTAINABLE DEVELOPMENT, vol.32, no.1, pp.166-183, 2024 (SSCI)
- III. **Understanding material and energy use in the processes of decoupling CO2 emissions from economic growth**  
Akdogan T., Erkara E., Mert B., Hicyilmaz B., Alatas S., KARAKAYA E.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.30, no.33, pp.80863-80883, 2023 (SCI-Expanded)
- IV. **What Does Input Substitution Tell Us in Helping Decarbonization and Dematerialization? Industry Level Analysis for South Korea**  
Alataş S., Karakaya E., Hiçyılmaz B.  
Sustainable Production and Consumption, vol.27, pp.411-424, 2021 (SCI-Expanded)
- V. **The potential of material productivity alongside energy productivity in climate mitigation: Evidence from convergence tests in the EU28**  
Alataş S., Karakaya E., Sarı E.  
Resources, Conservation and Recycling, vol.167, 2021 (SCI-Expanded)
- VI. **What drives material use in the EU? Evidence from club convergence and decomposition analysis on domestic material consumption and material footprint**  
Karakaya E., Sarı E., Alataş S.  
Resources Policy, vol.70, 2021 (SSCI)
- VII. **Sectoral convergence in energy consumption from developing country perspective: The case of Turkey**  
Karakaya E., Alataş S., Yılmaz B.  
Energy Efficiency, vol.13, no.7, pp.1457-1472, 2020 (SCI-Expanded)

- VIII. **Decomposition and decoupling analysis of energy-related carbon emissions in Turkey**  
Karakaya E., Bostan A., Özçağ M.  
Environmental Science and Pollution Research, vol.26, no.31, pp.32080-32091, 2019 (SCI-Expanded)
- IX. **Replication of Strazicich and List (2003): Are CO2 emission levels converging among industrial countries?**  
Karakaya E., Alataş S., Yılmaz B.  
Energy Economics, vol.82, pp.135-138, 2019 (SSCI)
- X. **How production-based and consumption-based emissions accounting systems change climate policy analysis: the case of CO2 convergence**  
Karakaya E., Yılmaz B., Alataş S.  
Environmental Science and Pollution Research, vol.26, no.16, pp.16682-16694, 2019 (SCI-Expanded)
- XI. **Energy Consumption, Economic Growth and Carbon Emission: Dynamic Panel Cointegration Analysis for Selected OECD Countries**  
KARAKAYA E., MERCAN M.  
Procedia Economics and Finance, vol.23, 2015 (SSCI)
- XII. **The impact of real exchange rate volatility on the export of Turkish electrical appliances**  
Cetin R., Karakaya E.  
Argumenta Oeconomica, vol.30, no.1, pp.109-125, 2013 (SSCI)

### Articles Published in Other Journals

- I. **Carbon Pricing for Greenhouse Gas Emission Reduction: Carbon Tax or Emission Trading?**  
Karakaya E., Akkoyun G., Hicyılmaz B.  
EKONOMI POLITIKA & FINANS ARASTIRMALARI DERGISI, vol.8, no.4, pp.813-841, 2023 (ESCI)
- II. **Paris İklim Anlaşması: İçeriği Ve Türkiye Üzerine Bir Değerlendirme**  
Karakaya E.  
Adnan Menderes Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, vol.3, no.1, pp.1-12, 2016 (Peer-Reviewed Journal)
- III. **Çevresel Kuznets Eğrisi ve Türkiye: Ampirik Bir Analiz**  
DAM M. M., KARAKAYA E., BULUT Ş.  
Dumlupınar Üniversitesi Sosyal Bilimler Dergisi, vol.0, pp.85-95, 2014 (Peer-Reviewed Journal)
- IV. **Sera Gazı Salımının Azaltımında Alternatif Politikaların Ekonomik Maliyetlerinin İncelenmesi Türkiye İçin Genel Denge Analizi**  
MERCAN M., KARAKAYA E.  
ERCIYES UNIVERSITY JOURNAL OF FACULTY OF ECONOMICS AND ADMINISTRATIVE SCIENCES, vol.42, 2014 (Peer-Reviewed Journal)
- V. **Enerji Arz Güvenliğini Etkileyen Ekonomik Siyasî Ve Coğrafi Faktörler**  
ERDAL L., KARAKAYA E.  
Uludağ Üniversitesi İİBF Dergisi, vol.31, no.1, pp.107-136, 2012 (Peer-Reviewed Journal)
- VI. **Forecasting Turkey s Energy Demand Using Artificial Neural Networks Three Scenario Applications**  
Hotunluoğlu H., Karakaya E.  
EGE ACADEMIC REVIEW, vol.11, pp.87-94, 2011 (Peer-Reviewed Journal)
- VII. **Methodological Aspects of Recent Climate Change Damage Cost Studies**  
Onno K., Michaela C., KARAKAYA E., Barbara B., Tol R., Alessandra G., Buchner B., Richard T., Gorla A., Kuik O., et al.  
The Integrated Assessment Journal, vol.8, no.1, pp.19-40, 2008 (Peer-Reviewed Journal)
- VIII. **Türkiye'ye yabancı emekli göçü: Didim'in yeni sakinleri ve bölgeye ekonomik etkileri**  
KARAKAYA E., TURAN A. H.  
İktisat İşletme ve Finans, vol.21, no.246, pp.122-132, 2006 (Peer-Reviewed Journal)
- IX. **Driving Forces Of CO2 Emissions In Central Asia A Decomposition Analysis of Air Pollution From Fossil Fuel Combustion**  
Karakaya E., Özçağ M.

## Books & Book Chapters

- I. **The role of emission trading scheme and carbon border adjustment mechanism in driving industrial decarbonization and climate finance**  
Hiçyılmaz B., Karakaya E.  
in: Encyclopedia of Monetary Policy, Financial Markets and Banking , Nikolaos Apergis, Editor, Elsevier Science, Oxford/Amsterdam , Massachusetts, pp.1-20, 2023
- II. **Küresel ısınma ve Kyoto Protokolü: iklim değişikliğinin bilimsel, ekonomik ve politik analizi**  
Karakaya E. (Editor)  
Baglam Yayınları, İstanbul, 2008
- III. **Climate Change The Cost of Inaction and the Cost of Adaptation**  
Watkiss P., Karakaya E., Francisco B.  
EEA Publication, Kobenhavn, 2007

## Refereed Congress / Symposium Publications in Proceedings

- I. **MALZEMENİN İKLİM POLİTİKASI POTANSİYELİ ÜZERİNE BİR ARAŞTIRMA: MALZEME VERİMLİLİĞİNİN ROLÜ NEDİR?**  
KARAKAYA E., HIÇYILMAZ B., ALATAŞ S.  
ECONANADOLU 2022- Anadolu Üniversitesi, Eskişehir, Turkey, 13 May 2022
- II. **Kaya Gazı Devrimi ve Olası Ekonomik Etkileri ABD Örneği**  
SOFUOĞLU E., KARAKAYA E.  
International Conference of Strategic Research in Social Science and Education, Turkey, 14 - 16 October 2016
- III. **İklim Değişikliği Müzakerelerine Bir Bakış 2015 Paris İklim Zirvesi**  
KARAKAYA E., SOFUOĞLU E.  
International Symposium on Eurasia Energy Issues, Turkey, 28 - 30 May 2015
- IV. **Energy Consumption Economic Growth and Carbon Emission Dynamic Panel Cointegration Analysis for Selected OECD Countries**  
Karakaya E., Mercan M.  
Second Global Conference on Business, Economics, Management and Tourism, Sarajevo, Bosnia And Herzegovina, 30 January 2015, vol.23, pp.587-592
- V. **Çevre Kirliliğinin Makroekonomik Değişkenlerle İlişkisi Panel Veri Analizi**  
DAM M. M., KARAKAYA E., ALATAŞ Z.  
2. International Davraz Congress, Isparta, Turkey, 29 - 31 May 2014
- VI. **Türkiye ye Yabancı Emekli Göçü Didim Örneği**  
TURAN A. H., KARAKAYA E.  
Kentsel Ekonomik Araştırmalar Sempozyumu, Denizli, Turkey, 11 - 13 May 2005
- VII. **Sürdürülebilir Kalkınma ve İklim Değişikliği Uygulanabilecek İktisadi Araçların Analizi**  
KARAKAYA E., ÖZÇAĞ M.  
Kırgızistan-Türkiye Manas Üniversitesi, I. Maliye Konferansı, "Geçiş Ekonomilerinde Mali Politikalar", 11 - 15 May 2004
- VIII. **TÜRKİYE AÇISINDAN KYOTO PROTOKOLÜ NÜN DEĞERLENDİRİLMESİ ve AYRIŞTIRMA DECOMPOSITION YÖNTEMİ İLE CO2 EMİSYONU BELİRLEYİCİLERİNİN ANALİZİ**  
KARAKAYA E., ÖZÇAĞ M.  
VII. ODTÜ Ekonomi Kongresi, 30 May - 01 June 2003

## Supported Projects

Karakaya E., TUBITAK Project, Malzeme Talebi ve Malzeme Verimliliğinin Sürdürülebilirlik Açısından Analizi: Ülkeler Arası Karşılaştırmalı bir Analiz ve Türkiye için Değerlendirmeler, 2022 - 2023

Karakaya E., United Nations Development Program - UNDP Supported Project, UNDP National Consultant position on Finance Technology Development and Transfer and Capacity Building in Climate Change for the preparation of Turkey's First Biennial Report to UNFCCC, 2015 - 2015

Karakaya E., EU Supported Other Project, Climate change the cost of inaction and the cost of adaptation Technical Report No 13 2007 European Environment Agency Copenhagen Denmark Avrupa Birliği Yayını ISBN 978 92 9167 974 4 Yazar ve sorumlu Proje yöneticisi, 2005 - 2008

Karakaya E., EU Supported Other Project, Greenhouse gas emission trends and projections in Europe 2006 Report No 9 2006 European Environment Agency Copenhagen Denmark Avrupa Birliği Yayını ISBN 92 9167 885 6 Yazar ve sorumlu Proje yöneticisi, 2007 - 2007

## Scientific Refereeing

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TUBİTAK, Turkey, June 2023

TUBITAK Project, 2204-A High School Students Research Projects Competition , TUBİTAK, Turkey, April 2023

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, TUBİTAK, Turkey, February 2023

TUBITAK Project, 2236 - Program for Supporting International Researchers, TUBİTAK, Turkey, May 2014

## Scientific Consultations

Birleşmiş Milletler, Scientific Consultancy, İzmir Ekonomi Üniversitesi, Faculty Of Economics And Administrative Sciences, İktisat Bölümü, Turkey, 2010 - 2011

## Tasks In Event Organizations

Karakaya E., İstanbul Karbon Zirvesi, Scientific Congress, İstanbul, Turkey, Mayıs 2014

## Metrics

Publication: 32

Citation (WoS): 149

Citation (Scopus): 145

H-Index (WoS): 6

H-Index (Scopus): 5

## Scholarships

Misafir Öğretim Üyesi Bursu, YOK, 2011 - 2011

YÖK Bursu, YOK, 1994 - 2001

## Non Academic Experience

Non-profit Organisation, Sürdürülebilir Üretim ve Tüketim Derneđi, Yönetici  
Sürdürülebilir Üretim ve Tüketim Derneđi  
UNDP  
European Union, European Environment Agency, Climate change and Energy  
Avrupa Çevre Ajansı