

Prof. Dr. MURAT GÜLER

Kişisel Bilgiler

İş Telefonu: [+90 312 210 2464](tel:+903122102464)

Fax Telefonu: [+90 312 210 5401](tel:+903122105401)

E-posta: gmurat@metu.edu.tr

Web: <https://avesis.metu.edu.tr/gmurat>

Uluslararası Araştırmacı ID'leri

ScholarID: 4TLIV98AAAAJ

ORCID: 0000-0001-6939-3322

Publons / Web Of Science ResearcherID: AAR-1150-2020

ScopusID: 57198106914

Yoksis Araştırmacı ID: 163719

Eğitim Bilgileri

Doktora, The University of Wisconsin Madison, Amerika Birleşik Devletleri 1997 - 2002

Yüksek Lisans, The University of Wisconsin Madison, Amerika Birleşik Devletleri 1995 - 1997

Lisans, Karadeniz Teknik Üniversitesi, Mühendislik-Mimarlık Fakültesi, İnşaat Mühendisliği Pr., Türkiye 1988 - 1992

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Characterization of hot mixture asphalt shear resistance and correlation with rutting performance, The University Of Wisconsin Madison, 2002

Yüksek Lisans, Applications of digital image analysis and processing methods in studying soil characteristics. , The University Of Wisconsin Madison, 1997

Araştırma Alanları

İnşaat Mühendisliği

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2014 - Devam Ediyor

Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2009 - 2014

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2005 - 2008

Öğretim Görevlisi Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, İnşaat Mühendisliği Bölümü, 2004 - 2005

Öğretim Görevlisi Dr., University of Maryland, Civil And Env. Eng., 2003 - 2003

Yrd. Doç. Dr., Bucknell University, Civil Engineering, 2002 - 2003

Öğretim Görevlisi, The University of Wisconsin Madison, Engineering Mech. And Astronautics, 2001 - 2002
Öğretim Görevlisi, The University of Wisconsin Madison, Department Of Mathematics, 2000 - 2000
Araştırma Görevlisi, The University of Wisconsin Madison, Civil And Envr. Eng., 1997 - 2000
Öğretim Görevlisi, Atatürk Üniversitesi, Erzincan Meslek Yüksekokulu, İnşaat Pr., 1994 - 1994

Yönetilen Tezler

GÜLER M., Investigation of variations in performance properties of asphalt concrete using image-based finite element model, Doktora, Y.KARAKAYA(Öğrenci), 2022
GÜLER M., Utilization of borax sludge in soft soil subgrade stabilization., Yüksek Lisans, C.CEYLAN(Öğrenci), 2015
GÜLER M., Low temperature performance of asphalt concrete under direct tension loading, Yüksek Lisans, Y.KARAKAYA(Öğrenci), 2015
GÜLER M., Boraks şlamının yumuşak alt temel tabakası stabilizasyonunda kullanılması., Yüksek Lisans, C.Ceylan(Öğrenci), 2015
GÜLER M., The influence of different mixture design variables on thermal fatigue cracking of asphalt concrete pavements, Yüksek Lisans, A.ARABZADEH(Öğrenci), 2014
GÜLER M., Asfalt beton kaplamaların termal yorulma kırıklarına farklı karışım dizaynlarının etkisi, Yüksek Lisans, A.Arabzadeh(Öğrenci), 2014
GÜLER M., Design of crack free, durable and ductile concrete for sustainable highway rigid pavement overlays, Doktora, H.ERHAN(Öğrenci), 2013
ÇOKÇA E., GÜLER M., Improvement of bearing capacity of a soft soil by the addition of fly ash, Yüksek Lisans, M.AZİZ(Öğrenci), 2011
GÜLER M., Evaluation of resilient modulus estimation methods for asphalt mixtures based on laboratory measurements, Yüksek Lisans, C.DEMİRCİ(Öğrenci), 2010
GÜLER M., Investigation of low temperature cracking in asphalt concrete pavement, Doktora, A.QADIR(Öğrenci), 2010
GÜLER M., Effect of recycled cement concrete content on rutting behavior of asphalt concrete, Yüksek Lisans, W.AHMED(Öğrenci), 2008
GÜLER M., Relationship between resilient modulus and soil index properties of unbound materials, Yüksek Lisans, E.ÇÖLERİ(Öğrenci), 2007
YAMAN İ. Ö., GÜLER M., Investigation of relationship between aggregate shape parameters and concrete strength using imaging techniques, Yüksek Lisans, M.ÖZEN(Öğrenci), 2007

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **READv2: advanced and user-friendly detection of biological relatedness in archaeogenomics**
Alaçamlı E., Naidoo T., GÜLER M., Sağlıcan E., Aktürk Ş., Mapelli I., Vural K. B., SOMEL M., Malmström H., Günther T.
Genome Biology, cilt.25, sa.1, 2024 (SCI-Expanded)
- II. **Investigation of the influence of mixture and microstructural properties on the thermal conductivity of asphalt concrete using the transient heat transfer method**
DEMİRTÜRK D., ÖZTÜRK H. I., GÜLER M.
Materials and Structures/Materiaux et Constructions, cilt.57, sa.8, 2024 (SCI-Expanded)
- III. **Influence of warm mix additive on internal structure of dry process crumb rubber modified mixtures**
Yucel A. O., ÖZTÜRK H. I., GÜLER M.
Journal of Cleaner Production, cilt.313, 2021 (SCI-Expanded)
- IV. **QUANTIFICATION OF SEGREGATION IN PORTLAND CEMENT CONCRETE BASED ON SPATIAL DISTRIBUTION OF AGGREGATE SIZE FRACTIONS**
ÖZEN M., GÜLER M.
IMAGE ANALYSIS & STEREOLOGY, cilt.39, sa.3, ss.147-159, 2020 (SCI-Expanded)

- V. **Thermal fatigue behavior of asphalt concrete: A laboratory-based investigation approach**
Arabzadeh A., GÜLER M.
INTERNATIONAL JOURNAL OF FATIGUE, cilt.121, ss.229-236, 2019 (SCI-Expanded)
- VI. **Investigation of glass transition temperature of asphalt concrete**
Qadir A., Güler M.
Journal Of Testing And Evaluation, cilt.45, sa.5, ss.1680-1690, 2017 (SCI-Expanded)
- VII. **Rutting susceptibility of asphalt concrete with recycled concrete aggregate using revised Marshall procedure**
Gul W. A., GÜLER M.
CONSTRUCTION AND BUILDING MATERIALS, cilt.55, ss.341-349, 2014 (SCI-Expanded)
- VIII. **Assessment of optimum threshold and particle shape parameter for the image analysis of aggregate size distribution of concrete sections**
Ozen M., GÜLER M.
OPTICS AND LASERS IN ENGINEERING, cilt.53, ss.122-132, 2014 (SCI-Expanded)
- IX. **Thin ECC overlay systems for rehabilitation of rigid concrete pavements**
Yucel H. E., Jashami H., Sahmaran M., GÜLER M., Sahmaran M.
MAGAZINE OF CONCRETE RESEARCH, cilt.65, sa.2, ss.108-120, 2013 (SCI-Expanded)
- X. **Determination of displacement distributions in bolted steel tension elements using digital image techniques**
SÖZEN Ş., GÜLER M.
OPTICS AND LASERS IN ENGINEERING, cilt.49, sa.12, ss.1428-1435, 2011 (SCI-Expanded)
- XI. **Evaluation of high temperature performance of SBS plus Gilsonite modified binder**
KÖK B. V., YILMAZ M., GÜLER M.
FUEL, cilt.90, sa.10, ss.3093-3099, 2011 (SCI-Expanded)
- XII. **Prediction of Subgrade Resilient Modulus Using Genetic Algorithm and Curve-Shifting Methodology Alternative to Nonlinear Constitutive Models**
Coleri E., GÜLER M., Gungor A. G., Harvey J. T.
TRANSPORTATION RESEARCH RECORD, sa.2170, ss.64-73, 2010 (SCI-Expanded)
- XIII. **Effects of mix design variables on mechanical properties of hot mix asphalt**
Guler M.
JOURNAL OF TRANSPORTATION ENGINEERING, cilt.134, sa.3, ss.128-136, 2008 (SCI-Expanded)
- XIV. **Analysis of factors affecting strain distribution in geosynthetics**
Kutay M., Guler M., Aydilek A.
JOURNAL OF GEOTECHNICAL AND GEOENVIRONMENTAL ENGINEERING, cilt.132, sa.1, ss.1-11, 2006 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **THE POLYMER EFFECTS ON BITUMEN PERFORMANCE PROPERTIES IN KAZAKHSTAN**
Samal K., GÜLER M., Daniyar B., Zhanar K., Aigul K.
International Journal of GEOMATE, cilt.23, sa.100, ss.34-43, 2022 (ESCI)

Kitap & Kitap Bölümleri

- I. **Characterization of Homogeneity of Asphalt Concrete Using 2D Cross-Sectional Images**
YÜCEL A. Ö., GÜLER M.
Lecture Notes in Civil Engineering, Biswajeet Pradhan, Editör, Springer, Singapore, ss.273-281, 2018

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Using Calorimetry-Based Method for Measuring Specific Heat Capacity of Asphalt Concrete**
DEMİRTÜRK D., ÖZTÜRK H. I., GÜLER M.
3rd International Civil Engineering and Architecture Congress (ICEARC'23), Trabzon, Türkiye, 12 - 14 Aralık 2023, cilt.1, ss.2031-2040
- II. **INVESTIGATION OF THE SHIP-GENERATED WASTE AS BINDER MODIFIER**
Öztürk H. I., Kamran F., Güler M.
7th International Conference Bituminous Mixtures and Pavements, Thessaloniki, Yunanistan, 12 - 14 Haziran 2019, ss.36-40
- III. **Evaluation of Laboratory Performance of Zycotherm Additive for Extended Moisture Resistance of HMA Pavements**
Güler M., Karakaya Y., Varlı B.
INTERNATIONAL CIVIL ENGINEERING AND ARCHITECTURE CONFERENCE 2019, Trabzon, Türkiye, 17 - 20 Nisan 2019, ss.1-10
- IV. **Investigation of the ship-generated waste as binder modifier**
ÖZTÜRK H. I., Kamran F., GÜLER M.
7th International Conference on Bituminous Mixtures and Pavements, ICONFBMP 2019, Thessaloniki, Yunanistan, 12 - 14 Haziran 2019, ss.36-40
- V. **Evaluation of Aggregate Size Effect on Asphalt Mixture Homogeneity Using Image Analysis**
YÜCEL A. Ö., GÜLER M.
13th International Congress on Advances in Civil Engineering, İzmir, Türkiye, 12 - 14 Ekim 2018
- VI. **Application of Voronoi Polygons and 3-Point Correlation for Identifying Uniformity of the Concrete Samples**
ÖZEN M., GÜLER M.
13th International Congress on Advances in Civil Engineering, İzmir, Türkiye, 12 - 14 Eylül 2018
- VII. **Characterization of Homogeneity of Asphalt Concrete Using 2D Cross Sectional Images**
YÜCEL A. Ö., GÜLER M.
Global Civil Engineering Conference (GCEC2017), Kuala-Lumpur, Malezya, 26 - 28 Temmuz 2017
- VIII. **Identifying an Optimal Shape Parameter to Estimate Grain Size Distribution of Concrete Samples Using Imaging Techniques**
ÖZEN M., YAMAN İ. Ö., GÜLER M.
10th International Congress on Advances in Civil Engineering, 17 - 19 Ekim 2012
- IX. **Finite Element Modelling of Thermal Stress Restrained Specimen Test**
QUADIR A., GÜLER M.
5th Eurasphalt & Eurobitume Congress, 13 - 15 Haziran 2012
- X. **Effect of Aggregate Type and Rate of Temperature Change on Fracture Strength of Asphalt Concrete**
QUADIR A., GÜLER M.
5th International Conference on Bituminous Mixtures and Pavements, 2 - 03 Haziran 2011
- XI. **Determination of Deformation Distributions in Welded Steel Tension Elements Using Digital Image Techniques**
SÖZEN Ş., GÜLER M.
9th International Congress on Advances in Civil Engineering, 27 - 30 Eylül 2010
- XII. **Using Dynamic Modulus as an Indicator for Thermal Strength of Asphalt Concrete**
QUADIR A., GÜLER M.
First Meeting and Technical Conference of the Middle East Society of Asphalt Technologists, 5 - 08 Temmuz 2010
- XIII. **Rutting behavior of asphalt concrete modified with recycled concrete aggregate**
GUL W. A., GÜLER M.
The 6th International Congress on Maintenance and Rehabilitation of Pavements and Technological Control, 8 - 10 Temmuz 2009
- XIV. **Correlation between light falling weight deflectometer results and laboratory measured elastic**

response of unbound materials

Coleri E., GÜLER M., Avsar C., Gungor A. G., Ozay O.

4th International Symposium on Deformation Characteristics of Geomaterials, Georgia, Amerika Birleşik Devletleri, 22 - 24 Eylül 2008, ss.831-837

XV. **Compaction Behaviour of Hot Mix Asphalt Using a Compaction Simulation Model**

GÜLER M.

Transport Research Arena Europe 2008, 21 - 24 Eylül 2008

XVI. **Measurement of Small Strains in Steel Samples Using Digital Imaging Techniques**

SÖZEN Ş., GÜLER M.

8th International Congress on Advances in Civil Engineering, 15 - 17 Eylül 2008

XVII. **Investigation of Relationship between Aggregate Shape Parameters and Concrete Strength Using Imaging Techniques**

ÖZEN M., YAMAN İ. Ö., GÜLER M.

8th International Congress on Advances in Civil Engineering, 15 - 17 Eylül 2008

XVIII. **Rutting Potential of Asphalt Mixtures Using Concept of Shear Resistance**

GÜLER M., BOSSCHER P.

Rutting Potential of Asphalt Mixtures Using Concept of Shear Resistance, 12 - 15 Haziran 2006

Desteklenen Projeler

ÖZTÜRK H. I., GÜLER M., Yükseköğretim Kurumları Destekli Proje, Ağırlıklı ölçümüne dayalı DARA yöntemi ile bitümlü

bağlayıcıların kimyasal özelliklerinin incelenmesi ve fiziksel ve reolojik özelliklere etkisinin belirlenmesi, 2021 - 2024

GÜLER M., KARAKAYA Y., Yükseköğretim Kurumları Destekli Proje, GERİ DÖNÜŞÜMÜ YAPILAN KARIŞIMLARIN SONLU ELEMENLAR YÖNTEMİ İLE İNCELENMESİ, 2018 - 2020

ÖZTÜRK H. I., GÜLER M., Yükseköğretim Kurumları Destekli Proje, Performans bazlı asfalt karışım deneylerinin yapılabilmesi için altyapı geliştirilmesi, 2016 - 2019

GÜLER M., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

GÜLER M., Yükseköğretim Kurumları Destekli Proje, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

Metrikler

Yayın: 34

Atıf (WoS): 205

Atıf (Scopus): 284

H-İndeks (WoS): 8

H-İndeks (Scopus): 8

Akademi Dışı Deneyim

METU

University of Maryland

Bucknell University