

## Prof. MUHAMMET VEFA AKPINAR

### Personal Information

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**Address:** Karadeniz Teknik Üniversitesi İnşaat Mühendisliği Bölümü 61080 Trabzon, Türkiye

### International Researcher IDs

ORCID: 0000-0001-7912-8274

Publons / Web Of Science ResearcherID: J-2830-2017

ScopusID: 24398356200

Yoksis Researcher ID: 151394

### Biography

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Prof.Dr. Akpinar has worked as a professional engineer in Houston, Texas. He was involved in QC/QA issues on geotechnical and pavement fields. Prof.Dr. Akpinar worked as a Post Doctoral Research Associate at Kansas State University. He is a licensed Professional Engineer in Ohio and Texas states.

Prof.Dr. Akpinar's teaching and research interests focus primarily on pavement mechanics and advanced modeling, pavement interlayer systems, and nondestructive evaluation. He has been working on transportation infrastructure instrumentation, full-scale accelerated testing, modeling of concrete and asphalt pavement response to tire loading, pavement fracture and modeling of pavement interface systems, accelerated pavement testing, and improvement of weak base layers with geocell cells.

Prof.Dr. Akpinar has taught graduate and undergraduate courses in Transportation and Geotechnical Engineering fields. He has thought about soil mechanics, transportation I-II, computer-aided pavement road design, and statistics undergraduate courses and pavement design, stress-strain analyses in pavement roads, pavement drainage, soil mechanics for pavement roads, pavement friction graduate courses.

He has been a principal investigator on several major pavement instrumentation projects, including projects completed for the Turkish National Science Foundation, TÜBİTAK, 106M423 where he developed a new device that can be used as a pullout and as a full-scale direct shear box, especially for geogrid performance under pavement evaluation.

Prof.Dr. has a solid working relationship with the Turkish Highway General Office, TCK, and has completed several major forensic investigations to identify the causes of pavement failure. By combining advanced non-destructive testing results he has successfully identified problems with flexible pavements in Trabzon. He is currently assisting TCK with the implementation of the APT procedure into their project-level pavement design system.

Prof.Dr. Akpınar's more recent research has been involved with the design and development of the full-scale Accelerated Pavement Testing Facility at KTÜ. Currently, he is the principal investigator of the Accelerated Pavement Testing Program which is the only program available in Turkey and one of the most comprehensive programs in Europe. As part of this effort, he is building pavement deterioration curves based on information stored in the Flexible Pavement DataBase. One important aspect of this system is the development and implementation of a mechanistic pavement design procedure for Turkish highways. Prof.Dr. Akpınar has broad experience in implementing improved systems, developing the necessary training materials, and conducting training schools.

Another major area of research is in the development and implementation of Geocell technology. He has established a pressure gage, strain gage, and plate loading system that evaluates the bearing capacity of pavement layers reinforced with geocells. By performing bearing capacity tests combining advanced non-destructive testing results he has successfully identified problems with flexible pavements in Trabzon.

## **Education Information**

Doctorate, Kansas State University, Civil Engineering, United States Of America 1999 - 2001

Postgraduate, University of Wisconsin-Madison, Civil Engineering and Environmental , Environmental And Civil Engineering, United States Of America 1996 - 1998

## **Foreign Languages**

English, B2 Upper Intermediate

## **Certificates, Courses and Trainings**

Occupational Health and Safety, İSG Occupational Health and Safety, Karadeniz Teknik Üniversitesi, 2015

Quality Management, Superpave Certificate, Kansas Department of Transportation-KSU Amerika, 2000

## **Dissertations**

Doctorate, Defining Roller Compactor Position and Slope OF tapered Surface in a Longitudinal Joint Construction Using 2-D Finite Element Model , Kansas State University, Civil Engineering, Transportation, 2001

Postgraduate, interface shear strength between geosynthetics at different temperatures., University of Wisconsin-Madison, Graduate School, Environmental And Civil Engineering, 1998

## **Research Areas**

Civil Engineering, Transportation Engineering, Airport Construction, Highways, Geotechnical, Soil Mechanics, Building materials, Concrete Technology, Engineering and Technology

## **Academic Titles / Tasks**

Professor, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, 2018 - Continues

Associate Professor, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat, 2012 - 2018  
Researcher, Kansas State University, Civil Engineering, Civil Engineering, 2004 - 2005  
Research Assistant, Kansas State University, Mühendislik Fakültesi, İnşaat Ve Çevre Mühendisliği, 1999 - 1999  
Other, University of Wisconsin-Madison, Graduate School, Environmental And Civil Engineering, 1996 - 1998  
Research Assistant, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, 1992 - 1995

## Academic and Administrative Experience

Mustafa Kemal Üniversitesi, Geotechnic, İnşaat, 2001 - 2005

## Courses

### Doctorate

YOL TABAKALARINDA GERİLME ANALİZLERİ, Doctorate, 2017 - 2018

Hızlandırılmış Yol Testi, Doctorate, 2017 - 2018

Silindire Sıkıştırılan Beton Yollar, Doctorate, 2016 - 2017

Accelerated Pavement Testing, Doctorate, 2015 - 2016

### Postgraduate

INSL7521 Geosentetiklerle Yolların Güçlendirilme.İng., Postgraduate, 2017 - 2018, 2015 - 2016

QUALITY CONTROL IN HIGHWAY CONSTRUCTION, Postgraduate, 2017 - 2018

STABILITY OF ROAD EMBANKMENTS, Postgraduate, 2016 - 2017

### Undergraduate

Railroad, Undergraduate, 2017 - 2018

SEL 475 -A CONCRETE ROAD DESIGN AND APPLICATION-A, Undergraduate, 2017 - 2018

SEL 475 - Concrete Road Design And Application [Teknik(Bölüm)Seçmeli] - B, Undergraduate, 2017 - 2018

Computer aided road design , Undergraduate, 2015 - 2016

Transportation II, Undergraduate, 2015 - 2016

## Supervised Theses

AKPINAR M. V., kent içi ulaşım master planı, Postgraduate, y.kırmoğlu(Student), Continues

AKPINAR M. V., SİLİNDİRLE SIKIŞTIRILAN BETON YOLLARDA FİBER KATKILARI, Doctorate, E.Avcı(Student), Continues

AKPINAR M. V., polymer bazlı ifile güçlendirilmiş beton yolların performansı, Postgraduate, Ö.Faruk(Student), Continues

AKPINAR M. V., RCC beton yollarda boylam derz çatlakların minimize edilmesi, Doctorate, M.Nas(Student), Continues

AKPINAR M. V., beton yollarda sılı genişlemeye bağlı gerilmelerin tespiti, Postgraduate, M.Tan(Student), Continues

AKPINAR M. V., Beton Yollarda Albedo etkisinin azaltılması ve derzsiz yol inşaatı, Doctorate, S.sevin(Student), Continues

AKPINAR M. V., Geri dönüşüm asfalt malzemelerin temel malzemesi olarak kullanımının araştırılması, Doctorate, A.Güneş(Student), Continues

AKPINAR M. V., Beton yollarda derz aralığının belirlenmesi, Postgraduate, İ.Doğan(Student), Continues

AKPINAR M. V., BETON YOLLARDA ÇATLAKLARIN MİNİMİZE EDİLMESİ, Postgraduate, T.KADIOĞLU(Student), Continues

AKPINAR M. V., dersiz beton yol kaplama, Doctorate, M.seferoğlu(Student), Continues

AKPINAR M. V., beton bariyerler ve trafik, Doctorate, s.özcanan(Student), Continues

AKPINAR M. V., Beton yol üstü asfalt kaplama, Doctorate, M.çelik(Student), Continues

AKPINAR M. V., Geri dönüşüm agregasının beton yol kaplamasında kullanılabilirliği, Postgraduate, E.Süme(Student), 2016

AKPINAR M. V., Bozulmuş asfalt kaplamaların geri dönüşüm maliyet analizi ve optimum geri kazanım mesafesinin araştırılması, Postgraduate, A.Selinoğlu(Student), 2015

AKPINAR M. V., Karadeniz Bölgesi köy yolları için rijit ve esnek kaplamanın mekanistik ve maliyet açısından karşılaştırılması, Postgraduate, m.çelik(Student), 2014

AKPINAR M. V., Havaalanı rijit kaplamalarında farklı beton sınıfları için sıcaklık değişiminin sonlu elemanlar ve deneysel çalışmalarla belirlenmesi, Postgraduate, m.tevfik(Student), 2014

AKPINAR M. V., beton yol plakaların matematiksel modeli, Postgraduate, ü.yaşar(Student), 2013

AKPINAR M. V., Beton yol kaplamaların sayısal tasarımında bilgi sistemleri ve yapay zeka yaklaşımı, Doctorate, E.Burak(Student), 2012

AKPINAR M. V., Karayolu tabakalarında plaka yükleme deneyinin uygulanabilirliğinin araştırılması, Postgraduate, A.GÜNEŞ(Student), 2011

AKPINAR M. V., Karayolu Alttemel Tabakası Taban Zemini Arasında Farklı Göz Açıklıklarındaki Geogridlerin Performanslarının Araştırılması, Doctorate, T.Sert(Student), 2010

## **Jury Memberships**

Post Graduate, 100.YIL ÜNİVERSİTESİ MASTIR TEZ SAVUNMASI, 100.YIL ÜNİVERSİTESİ İNŞAAT MÜHENDİSLİĞİ BÖLÜMÜ, December, 2017

Doctorate, doktora savunması , karadeniz teknik üniversitesi, November, 2017

Post Graduate, mastır tez, karadeniz teknik üniversitesi, May, 2017

Doctorate, doktora tez, karadeniz teknik üniversitesi, March, 2016

Post Graduate, juri, 19 Mayıs Üniversitesi, December, 2015

Post Graduate, juri, Recep Tayyip Erdoğan Üniversitesi, March, 2015

Appointment to Academic Staff-Assistant Professorship, juri, artvin üniversitesi, March, 2015

Post Graduate, Mastır tez savunma:Trabzon Bölünmüş Sahil Yolu Üzerinde Coğrafi Bilgi Sistemleri İle Trafik Kazalarının Analiz, karadeniz teknik üniversitesi, February, 2015

Post Graduate, tez, KTÜ, July, 2014

Academic Staff Examination, juri, artvin üniversitesi, February, 2014

Academic Staff Examination, juri, artvin üniversitesi, February, 2014

Post Graduate, juri, KTÜ, March, 2013

Post Graduate, yüksek lisans meatlurji, karadeniz teknik üniversitesi, January, 2013

Post Graduate, mastır tez savunma metalurji, karadeniz teknik üniversitesi, February, 2012

Doctorate, doktora tez savunma, karadeniz teknik üniversitesi, January, 2010

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

- I. **Investigating the Influence of Joint Reinforcements of Portland Cement Concrete Slabs Under Asphalt Concrete Overlays on Vertical Deflections Using Accelerated Pavement Testing**  
Seferoglu M. T., Seferoglu A. G., Celik M., AKPINAR M. V.  
TRANSPORTATION RESEARCH RECORD, vol.2676, no.11, pp.296-305, 2022 (SCI-Expanded)
- II. **Strength properties of roller compacted concrete pavement (RCCP) under different curing methods**  
KELEŞ Ö. F., AKPINAR M. V.  
CONSTRUCTION AND BUILDING MATERIALS, vol.324, 2022 (SCI-Expanded)
- III. **Evaluation of Load-Transfer Efficiency of Steel Mesh Reinforced Contraction Joints in Concrete Pavement: Accelerated Pavement Test and FE Analysis**  
Celik M., Seferoglu M. T., AKPINAR M. V., Nasery M. M., Seferoglu A. G.  
TEKNİK DERGI, vol.32, no.6, pp.11337-11359, 2021 (SCI-Expanded)
- IV. **Performance of AC overlays using geogrids on PCC contraction joints**  
Celik M., Seferoglu M. T., AKPINAR M. V.  
GEOTEXTILES AND GEOMEMBRANES, vol.49, no.4, pp.1058-1065, 2021 (SCI-Expanded)
- V. **MECHANISTIC RESPONSES OF ASPHALT CONCRETE OVERLAY OVER JOINTED PLAIN CONCRETE**

## **PAVEMENT USING FINITE ELEMENT METHOD**

Diallo A. O., AKPINAR M. V.

BALTIC JOURNAL OF ROAD AND BRIDGE ENGINEERING, vol.15, no.5, pp.80-93, 2020 (SCI-Expanded)

- VI. **Investigating the Mechanical Behavior of Reclaimed Asphalt Pavement (RAP) Bases in Large Scale Test Box**  
SEFEROĞLU A. G., Seferoglu M. T., AKPINAR M. V.  
TEKNIK DERGI, vol.30, no.6, pp.9581-9596, 2019 (SCI-Expanded)
- VII. **Experimental study on cement-treated and untreated RAP blended bases: Cyclic plate loading test**  
Seferoğlu A. G., SEFEROĞLU M. T., AKPINAR M. V.  
Construction and Building Materials, vol.182, pp.580-587, 2018 (SCI-Expanded)
- VIII. **Pavement subgrade stabilization with lime and cellular confinement system**  
AKPINAR M. V., Pancar E. B., Şengül E., Aslan H.  
Baltic Journal of Road and Bridge Engineering, vol.13, no.2, pp.87-93, 2018 (SCI-Expanded)
- IX. **Investigation of the Effect of Recycled Asphalt Pavement Material on Permeability and Bearing Capacity in the Base Layer**  
Seferoglu A. G., SEFEROĞLU M. T., AKPINAR M. V.  
ADVANCES IN CIVIL ENGINEERING, vol.2018, 2018 (SCI-Expanded)
- X. **Effects of fine aggregate abrasion resistance and its fineness module on wear resistance of Portland cement concrete pavements**  
Karpuz O., AKPINAR M. V., Aydin M. M.  
Revista de la Construcción, vol.16, no.1, pp.126-132, 2017 (SCI-Expanded)
- XI. **Temperature Reduction of Concrete Pavement Using Glass Bead Materials**  
Pancar E. B., AKPINAR M. V.  
INTERNATIONAL JOURNAL OF CONCRETE STRUCTURES AND MATERIALS, vol.10, no.1, pp.39-46, 2016 (SCI-Expanded)
- XII. **Comparison of Effects of Using Geosynthetics and Lime Stabilization to Increase Bearing Capacity of Unpaved Road Subgrade**  
Pancar E. B., AKPINAR M. V.  
ADVANCES IN MATERIALS SCIENCE AND ENGINEERING, vol.2016, 2016 (SCI-Expanded)
- XIII. **Determining the Critical Tire and Axle Configuration for Flexible Pavements Based on Mechanistic Analysis**  
Ozcanan S., AKPINAR M. V.  
TEKNIK DERGI, vol.25, no.1, pp.6625-6654, 2014 (SCI-Expanded)
- XIV. **Evaluation of Internal Resistance in Asphalt Concretes**  
ZANDI Y., AKPINAR M. V.  
INTERNATIONAL JOURNAL OF CONCRETE STRUCTURES AND MATERIALS, vol.6, no.4, pp.247-250, 2012 (SCI-Expanded)
- XV. **INVESTIGATION OF GEOGRID APERTURE SIZE EFFECTS ON SUBBASE-SUBGRADE STABILIZATION OF ASPHALT PAVEMENTS**  
SERT T., AKPINAR M. V.  
BALTIC JOURNAL OF ROAD AND BRIDGE ENGINEERING, vol.7, no.2, pp.160-168, 2012 (SCI-Expanded)
- XVI. **Chemical composition of building materials used in Turkey**  
ÇEVİK U., Damla N., Van Grieken R., AKPINAR M. V.  
CONSTRUCTION AND BUILDING MATERIALS, vol.25, no.4, pp.1546-1552, 2011 (SCI-Expanded)
- XVII. **Investigation of geogrid performance on highway subbase by using the pullout test device, Pullout test aleti ile karayolu alttemelinde geogrid performansinin araştırılması**  
Sert T., Akpınar M. V.  
Teknik Dergi/Technical Journal of Turkish Chamber of Civil Engineers, vol.22, pp.5285-5304, 2011 (SCI-Expanded)
- XVIII. **Investigation of Geogrid Performance on Highway Subbase By Using The Pullout Test Device**  
SERT T., AKPINAR M. V.  
TEKNIK DERGI, vol.22, no.1, pp.5285-5304, 2011 (SCI-Expanded)

- XIX. **Effects of truck load position on longitudinal joint deterioration**  
Akpınar M. V.  
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.15, no.1, pp.36-40, 2008 (SCI-Expanded)
- XX. **Effect of cement on emulsified asphalt mixtures**  
Oruc S., Celik F., Akpınar M. V.  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.16, no.5, pp.578-583, 2007 (SCI-Expanded)
- XXI. **Effect of temperature on shear strength of two geomembrane-geotextile interfaces**  
AKPINAR M. V., Benson C.  
GEOTEXTILES AND GEOMEMBRANES, vol.23, no.5, pp.443-453, 2005 (SCI-Expanded)
- XXII. **Textured Surface and Strain Rate Effects on Geomembrane and Geotextile Interface Shear Strength at Different Temperatures**  
AKPINAR M. V., Benson C.  
GEOTEXTILES AND GEOMEMBRANES, vol.23, pp.443-453, 2005 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Investigation of fatigue behavior of fiber reinforced concrete pavements under dynamic load**  
kanbak c., Ozcanan S., akpınar m., Atahan A.  
Gümüşhane Üniversitesi Fen Bilimleri Dergisi, vol.13, no.4, pp.1009-1018, 2023 (Peer-Reviewed Journal)
- II. **Friction Loss of Concrete Pavement Surface**  
KARPUZ O., ÇELİK M., AKPINAR M. V., ASLAN H., ÇİÇEK E.  
Journal of Innovative Engineering and Natural Science, vol.2, no.2, pp.66-75, 2022 (Peer-Reviewed Journal)
- III. **Effect of filler percentage of recycled asphalt pavement (RAP) materials on CBR performance and cost analysis**  
Seferoğlu A. G., Seferoğlu M. T., AKPINAR M. V., Celik M.  
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.26, no.6, pp.1023-1029, 2020 (ESCI)
- IV. **Economic Analysis of the Use of Reclaimed Asphalt Pavement (RAP) Materials in Plant-Mix Base Courses**  
Seferoğlu A. G., Seferoğlu M. T., AKPINAR M. V., Celik M.  
JOURNAL OF POLYTECHNIC-POLİTEKNİK DERGİSİ, no.4, pp.1327-1338, 2020 (ESCI)
- V. **Kazınmış Asfalt Kaplama (RAP) Malzemelerinin Filler Oranının CBR Performansına Etkisi ve Maliyet Analizi**  
seferoğlu a. g., SEFEROĞLU M. T., AKPINAR M. V., ÇELİK M.  
Pamukkale Univ Muh Bilim Derg., no.3333, pp.9581-9596, 2020 (Peer-Reviewed Journal)
- VI. **An investigation on vertical displacement formations with respect to the types of joints in concrete road applications and cost analysis: An example from trabzon-rize Beton yol uygulamalarında derz türlerine göre düşey deplasman oluşumlarının incelenmesi ve maliyet analizi: Trabzon-rize örneği**  
Çelik M., Seferoğlu M. T., AKPINAR M. V., Güneş Seferoğlu A.  
El-Cezeri Journal of Science and Engineering, vol.7, no.2, pp.474-486, 2020 (Scopus)
- VII. **Trabzon Uzungöl Sit Alanı için Kaya Islahı Projelendirmesinde Karşılaşılan Zorluklar ve Çözüm Önerileri**  
ÇELİK M., SEFEROĞLU M. T., SEFEROĞLU A. G., AKPINAR M. V.  
Journal of Investigations on Engineering and Technology, vol.1, no.1, pp.1-6, 2018 (Peer-Reviewed Journal)
- VIII. **Hızlandırılmış Yol Testleri**  
AKPINAR M. V.  
Türkiye Mühendislik Haberleri, TMMOB, İnşaat Mühendisleri Odası, vol.2, no.1, pp.9-19, 2017 (Peer-Reviewed Journal)
- IX. **Türkiye'de Geri Dönüşüm Asfalt Kaplamaların (RAP) Bağlayıcısız Temel Tabakalarında Kullanılabilirliği ve Şartname Gereksinimleri**

seferođlu a. g., SEFEROĐLU M. T., AKPINAR M. V.

Yapı Dnyasy, pp.21-26, 2017 (Peer-Reviewed Journal)

- X. **Heavy lead (Pb) mobility in compacted clay soils under landfill liners**  
AKBULUT ÖZEN S., AKPINAR M. V., ÇEVİK U.  
International Journal of Application or Innovation in Engineering Management, vol.6, no.5, pp.65-71, 2017 (Peer-Reviewed Journal)
- XI. **EFFECT OF GLASS BEAD AND ZEOLITE IN CONCRETE UNDER HIGH TEMPERATURE**  
AKPINAR M. V.  
International Journal of Research –Granthaalayah, vol.4, no.12, pp.12-19, 2016 (Peer-Reviewed Journal)
- XII. **Field and Loading Unit Analysis of Vertical Pressure Distribution on Highway Sublayers**  
Kütük T., Gürbüz A., AKPINAR M. V.  
American Academic & Scholarly Research Journal, vol.8, no.6, pp.2-12, 2016 (Peer-Reviewed Journal)
- XIII. **Karayolu ve Havayolu Kaplamalarında Kullanılan Kar ve Buzla Mücadele Yöntemlerinin Mali Analizi**  
Seferoglu G., Seferoglu M. T., AKPINAR M. V.  
GAZİ ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ PART: C TASARIM VE TEKNOLOJİ, vol.1, no.3, pp.407-416, 2015 (Peer-Reviewed Journal)
- XIV. **EFFECT OF GROOVE WIDTH AND SHAPE ON CONCRETE PAVEMENT SKID RESISTANCE Vol 4 No 3 pp 081 086 March 2015**  
PANCAR E. B., KARACA Z., AKPINAR M. V.  
International Journal of Innovation Sciences and Research, vol.4, no.3, pp.81-86, 2015 (Peer-Reviewed Journal)
- XV. **EFFECT OF GROOVE WIDTH AND SHAPE ON CONCRETE PAVEMENT SKID RESISTANCE**  
pancar e. b., karaca z., AKPINAR M. V.  
International Journal of Innovation Sciences and Research, vol.4, no.3, pp.81-86, 2015 (Peer-Reviewed Journal)
- XVI. **Information systems and artificial intelligence technology applied in concrete road design**  
Pancar E. B., AKPINAR M. V.  
Advances in Intelligent Systems and Computing, vol.343, pp.559-568, 2015 (Scopus)
- XVII. **KARAYOLLARINDA REAKSİYON MODÜLÜNÜN BELİRLENMESİNDE UYGUN PLAKA YÜK VE BOYUTLARININ SONLU ELEMANLAR YÖNTEMİYLE TESPİTİ**  
SEFEROĐLU A. G., SEFEROĐLU M. T., AKPINAR M. V.  
Yapı Dnyasy Dergisi, vol.3, no.1, pp.407-416, 2014 (Peer-Reviewed Journal)
- XVIII. **Assessing Permanent Deformation of Asphalt Mixtures Using Digital Imaging**  
Zandi Y., AKPINAR M. V., Mehdizadeh M.  
Journal of Basic and Applied scientific research, vol.2, no.5, pp.5292-4304, 2012 (Peer-Reviewed Journal)
- XIX. **research on feasibility of plate loading testing on highway pavement layers**  
seferođlu a. g., AKPINAR M. V.  
e-journal of new world science academy, vol.6, no.4, pp.1190-1199, 2011 (Peer-Reviewed Journal)
- XX. **Hızlandırılmış Yol Testi**  
AKPINAR M. V.  
Hazır Beton, THBB, no.97, pp.63-65, 2010 (Peer-Reviewed Journal)
- XXI. **İnce Agrega Türünün Kaplama Betonunun Aşınma Direncine Etkisi**  
KARPUZ O., AKPINAR M. V.  
Electronic Journal of Construction Technology, vol.5, no.2, pp.1-8, 2009 (Peer-Reviewed Journal)
- XXII. **Identification of interfacial stress pattern on dentin post interface**  
AKPINAR M. V., Akpınar Y.  
Journal of Dental Clinics and Research, vol.5, no.2, pp.103-110, 2009 (Peer-Reviewed Journal)
- XXIII. **Beton yollarda karışım incelik modülünün sürtünme kaybına etkisi**  
Karpuz O., AKPINAR M. V., Sert T.  
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.23, pp.137-146, 2008 (Peer-Reviewed Journal)
- XXIV. **Guidelines in Production of Two Step Anaerobic Digestion for Turkish Army**  
AKPINAR M. V.

SCIENCE JOURNAL OF THE TURKISH MILITARY ACADEMY, vol.15, pp.20-30, 2005 (Peer-Reviewed Journal)

**XXV. The Effect of Fine Aggregate Type on Wear Resistance of Pavement Concrete**

Karpuz O., AKPINAR M. V.

Yapı Teknolojileri Elektronik Dergisi, vol.5, pp.1-8, 2004 (Peer-Reviewed Journal)

**XXVI. Analysis of Intercity Transportation Mode Choice From Banjarmasin City Disaggregate Logit Model**

Radam I. F., AKPINAR M. V., Örnak M.

Çukurova Univ. Journal of Faculty of Engineering, vol.19, pp.112-132, 2004 (Peer-Reviewed Journal)

## **Books**

**I. Comparison of asphalt and concrete pavement solar reflectance**

AKPINAR M. V., sevinç s.

in: Green Energy and Technology, Sandro Nizetic Agis Papadopoulos, Editor, Springer, London/Berlin , Londra, pp.42-49, 2018

**II. Energy Analysis and Energy Storage Technologies. Comparison of concrete and asphalt pavement roads**

AKPINAR M. V., SEVİN S.

in: Green Energy and Technology, Sandro Nižetić Agis Papadopoulos, Editor, SPRINGER, pp.51-59, 2018

**III. karayolu tasarımı**

AKPINAR M. V.

Birsen Yayınevi, İstanbul, 2017

**IV. GUIDE TO CONCRETE OVERLAYS**

AKPINAR M. V.

Türkiye Çimento Müstahsiller Birliği, Ankara, 2016

**V. Roller compacted concrete pavement guide**

AKPINAR M. V.

Tçmb, Ankara, 2015

**VI. Chapter 57 Intelligent Computing and Applications Volume 343 of the series Advances in Intelligent Systems and Computing**

Burak e., AKPINAR M. V.

in: Advances in Intelligent Systems and Computing, Durbadal M., Rajib K., Swagatam D., Bijaya K.P., Editor, Springer, London/Berlin , Almany, pp.2012-2016, 2015

**VII. CHAPTER 57 Information Systems and Artificial Intelligence Technology Applied in Concrete Road Design**

PANCAR E. B., AKPINAR M. V.

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AKPINAR M. V., Other International Funding Programs, Houston Tollway road, 2000 - 1999

## Activities in Scientific Journals

Engineering Science and Technology, an International Journal , Committee Member, 2018 - Continues

international journal of advanced research, Committee Member, 2017 - Continues

American Journal of Geophysics, Geochemistry and Geosystems, Committee Member, 2017 - Continues

Niğde üniversitesi mühendislik bilimler dergisi , Committee Member, 2016 - Continues

Çimento ve Beton Dünyası , Advisory Committee Member, 2016 - Continues

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, Editor, 2011 - Continues

## Memberships / Tasks in Scientific Organizations

Ministry of Transport and Infrastructure, Republic of Turkey, Member, 2018 - Continues, Turkey

Chamber of Civil Engineers, Ankara, Member of Science Committee, 2016 - Continues, Turkey

Chamber of Civil Engineers, Trabzon, Member of Science Committee, 2016 - Continues, Turkey

Türkiye Çimento Müstahsiller Birliği, Member, 2013 - Continues

Yollar Türk Mli Komitesi, Member, 2009 - Continues

Professional Engineer, P.E. Texas, Member, 2001 - Continues, United States Of America

Ohio Professional Engineering, USA, Member, 2000 - Continues, United States Of America

Geosynthetics , Member, 2011 - 2013, Turkey

## Peer Reviews in Scientific Publications

International Journal of Transportation Engineering and Technology, Other Indexed Journal, July 2017

İMO teknik dergi (sci expanded), National Scientific Refreed Journal, May 2017

G7 yedinci ulusal geosentetikler konfreansı, Other Journals, May 2017

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji , National Scientific Refreed Journal, April 2017

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji , National Scientific Refreed Journal, February 2017

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, National Scientific Refreed Journal, January 2017

imo teknik dergi (sci index), SCI Journal, January 2017

accident analysis and prevention , SCI Journal, November 2016

American Journal of Geophysics, Geochemistry and Geosyncience, Other Indexed Journal, November 2016

gazi university journal of science par A: engineering and innovation, SCI Journal, July 2016

19 th EURO Working Group on Transportation meeting, Other Journals, July 2016

Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji , National Scientific Refreed Journal, May 2016  
american journal of physics, geochmeistry, and geosystems, Other Indexed Journal, April 2016  
AFRİCAN JOURNAL OF ENĞİNEERİNG RESEARCH, SCI Journal, April 2016  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji , National Scientific Refreed Journal, February 2016  
yrd doç.atama, Other Journals, September 2015  
MİLLİ EĞİTİM BAKANLIĞI YURTDIŞI LİSANSÜSTÜ , Other Journals, August 2015  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji , National Scientific Refreed Journal, April 2015  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, National Scientific Refreed Journal, March 2015  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, National Scientific Refreed Journal, February 2015  
Adavances in materials research, SCI Journal, June 2014  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji , National Scientific Refreed Journal, May 2014  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, National Scientific Refreed Journal, March 2014  
TÜBİTAK Proje , Other Journals, December 2012  
10 th international congress on advances in civil engineering, Other journals, November 2012  
Fırat üniversitesi fen bilimler dergisi, National Scientific Refreed Journal, August 2011  
International journal of pavement research and technolgy , Other Indexed Journal, January 2011  
5.ulusal asfalt sempozyumu, Other Journals, November 2009

### **Scientific Project Refereeing**

TUBITAK Project, November 2010

### **Scientific Consultations**

Ulaştırma Bakanlığı AYGM, Scientific Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat Mühendisliği, Turkey, 2022 - Continues  
AKÇANSA, Other, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat, Turkey, 2015 - Continues  
Türkiye Çimento müstahsiller birliği, Scientific Consultancy, Karadeniz Technical University, Mühendislik Fakültesi, İnşaat, Turkey, 2013 - Continues  
Ulaştırma Bakanlığı, Scientific Consultancy, Turkey, 2009 - 2009

### **Metrics**

Publication: 131  
Citation (WoS): 306  
Citation (Scopus): 398  
H-Index (WoS): 8  
H-Index (Scopus): 9

### **Congress and Symposium Activities**

2.ulusal tüneller ve altyapılar kongresi, Invited Speaker, Ankara, Turkey, 2019  
Ulaştırma lojistik, Attendee, Sakarya, Turkey, 2018  
Beton yol, Invited Speaker, Ankara, Turkey, 2018  
SSB Ağrı uygulaması, Invited Speaker, Ağrı, Turkey, 2018  
Thermal Stress Analysis of Concrete Pavement under Different Albedo Values., Attendee, Bayburt, Turkey, 2017  
Comparison of the Cost, Construction and Benefit of the Innovative Steel Barriers and Embankment Walls in Trabzon, Attendee, Bayburt, Turkey, 2017



Daily Temperature Change in Concrete Pavements, Albedo effect and Stress Analysis by 3D Finite Element Method., Attendee, Bayburt, Turkey, 2017

IEEEES-9, 9 th Intenational Exery, Energy and Environment Symposium, University of Split, Croatia, May 14-17, 2017., Attendee, Split, Croatia, 2017

IEEEES-9, 9 th Intenational Exery, Energy and Environment Symposium, University of Split, Croatia, May 14-17, 2017., Attendee, Split, Croatia, 2017

samsun beton yol, Attendee, Samsun, Turkey, 2017

samsun beton yol sempozyumu, Invited Speaker, Samsun, Turkey, 2017

AASRC MULTİLİNGUAL INTERNATİONAL CONFERENCE, Attendee, Ankara, Turkey, 2016

International Black Sea Mining and Tunnelling Symposium 2016, Attendee, Trabzon, Turkey, 2016

12 th international congress on advances in civil engineering, Attendee, İstanbul, Turkey, 2016

beton yol toplantısı, Attendee, Trabzon, Turkey, 2016

ulusal beton kongresi, Attendee, Antalya, Turkey, 2016

7.kentsel altyapı sempozyumu, Panelists, Trabzon, Turkey, 2015

7.kentsel altyapı sempozyumu, Attendee, Trabzon, Turkey, 2015

13th TÇMB Intenational technical seminar and exhibition, Attendee, Antalya, Turkey, 2015

13.uluslararası teknik seminer, Panelists, Antalya, Turkey, 2015

ace 2016, Attendee, Trabzon, Turkey, 2015

XIX ULUSAL MEKANİK KONGRE, Attendee, Trabzon, Turkey, 2015

ace 2015, Session Moderator, Trabzon, Turkey, 2015

beton yol toplantısı, Attendee, Elazığ, Turkey, 2015

Trabzon kamu kuruluşları için beton yol uygulamaları, Attendee, Trabzon, Turkey, 2014

3. Orman İnşaat Transportu ve teknolojileri, Attendee, Trabzon, Turkey, 2014

Beton yol ve uygulamaları, Attendee, Elazığ, Turkey, 2014

Tebriz, Invited Speaker, Tabriz, Iran, 2014

hazır beton kongresi, Attendee, İstanbul, Turkey, 2013

1.uluslararası raylı sistemler mühendisliği çalıştayı IWRSE 12, Attendee, Karabük, Turkey, 2012

conference ICCT 09 perpetual office of international conferences on seismic retrofitting 2012, Attendee, Tabrîz, Iran, 2012

İnternational Participated contruction congress, Attendee, Elazığ, Turkey, 2011

1 st International conference on advanced comuting and communication technolgy, Attendee, Kochi, India, 2011

International Conference on Concrete Technology, Invited Speaker, Tabriz, Iran, 2010

9 th international congress on advances in civil engineering, Attendee, Trabzon, Turkey, 2010

International Conference on Concrete Technology, Session Moderator, Tabriz, Iran, 2009

## Scholarships

NATO B2 BURSUSU, DOKTORA SONRASI ARAŞTIRMA, TUBITAK, 2004 - Continues

Yurtdışı Doktora, Ministry of Education, 1997 - Continues

YURTDIŞI MASTIR EĞİTİM, Ministry of Education, 1994 - Continues

## Awards

AKPINAR M. V., beton yol uygulaması, Giresun üniversitesi, August 2018

AKPINAR M. V., BETON YOL ARAŞTIRMALARI, AKÇANSA ÇİMENTO SANAYİ VE TİCARET A.Ş., October 2015

Akpınar M. V., Honor Student, Karadeniz Teknik Üniversitesi, May 1991

## Visual Activities

AKPINAR M. V., TV / Radio Training Program in Corporate Studios, 2018 - Continues  
AKPINAR M. V., TV Show, 2019 - 2019  
AKPINAR M. V., TV Show, 2018 - 2018  
AKPINAR M. V., TV Show, 2018 - 2018  
AKPINAR M. V., TV Show, 2016 - 2016  
AKPINAR M. V., TV / Radio Training Program in Corporate Studios, 2016 - 2016  
AKPINAR M. V., TV / Radio Training Program in Corporate Studios, 2009 - 2009

## **Non Academic Experience**

Business Establishment Private, 1. Tümaş A.Ş. Avrupa Birliği Hibe Programı, Samsun Tekkeköy Lojistik Üssü  
Business Establishment Private, Türkiye Çimento Müstahsiller Birliği, Beton  
alanya keykubat üniversitesi, akademisyen geçici görevlendirme  
Türkiye çimento müstahsille birliği, teknik danışman  
avrupa lefke üniversitesi, hoca  
ground technology , yetkin mühendis  
Business Organization (private), Ground Technolgy, Houston Tx, Beton Yol Ve Geotechnic