

## Personal Information

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## Education Information

Doctorate, Ege Üniversitesi, Fen Bilimleri Enstitüsü, Mekanik (Dr), Turkey 2008 - 2014

Post Graduate, Ege Üniversitesi, Fen Bilimleri Enstitüsü, Mekanik (Dr), Turkey 2006 - 2008

## Foreign Languages

English, B2 Upper Intermediate

## Research Areas

Solid Mechanics, Finite Element Methods, Biomechanics, Mechanical Testing, Continuous Mechanics

## Academic Titles / Tasks

Assistant Professor, Ege Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2018 - Continues

Assistant Professor, Ege Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2015 - 2018

Research Assistant, Ege Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, 2009 - 2015

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Micro-computed tomography and mechanical evaluation of trabecular bone structure in osteopenic and osteoporotic fractures**  
OZAN F., PEKEDİS M., KOYUNCU S., ALTAY T., YILDIZ H., KAYALI C.  
JOURNAL OF ORTHOPAEDIC SURGERY, vol.25, 2017 (Journal Indexed in SCI)
- **Damage diagnosis of a laminated composite beam and plate via model based structural health monitoring techniques**  
PEKEDİS M., YILDIZ H.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, pp.813-831, 2016 (Journal Indexed in SCI)
- **Structural health monitoring for bolt loosening via a non-invasive vibro-haptics human-machine cooperative interface**  
PEKEDİS M., Mascernas D., Turan G., ERCAN E., Farrar C. R. , YILDIZ H.  
SMART MATERIALS AND STRUCTURES, vol.24, 2015 (Journal Indexed in SCI)
- **Effect of taurine on rat Achilles tendon healing**  
AKDEMİR O., LINEAWEAVER W. C. , ÇAVUŞOĞLU T., BİNBOĞA E., UYANIKGİL Y., Zhang F., PEKEDİS M., YAGCI T.  
CONNECTIVE TISSUE RESEARCH, vol.56, pp.300-306, 2015 (Journal Indexed in SCI)
- **Biomechanical evaluation of sagittal maxillary internal distraction osteogenesis in unilateral cleft lip and palate patient and noncleft patients A three-dimensional finite element analysis**  
OLMEZ S., DOĞAN S., PEKEDİS M., YILDIZ H.  
ANGLE ORTHODONTIST, vol.84, pp.815-824, 2014 (Journal Indexed in SCI)
- **NUMERICAL ANALYSIS OF A PROJECTILE PENETRATION INTO THE HUMAN HEAD VIA MESHLESS**

## METHOD

PEKEDİS M., YILDIZ H.

JOURNAL OF MECHANICS IN MEDICINE AND BIOLOGY, vol.14, 2014 (Journal Indexed in SCI)

- **Does Urinary Bladder Shape Affect Urinary Flow Rate in Men with Lower Urinary Tract Symptoms?**

Atesci Y. Z. , Aydogdu O., Karakose A., PEKEDİS M., Karal O., ŞENTÜRK U.

SCIENTIFIC WORLD JOURNAL, 2014 (Journal Indexed in SCI)

- **Greater Trochanteric Fixation Using a Cable System for Partial Hip Arthroplasty: A Clinical and Finite Element Analysis**

OZAN F., KOYUNCU S., PEKEDİS M., ALTAY T., YILDIZ H., TOKER G.

BIOMED RESEARCH INTERNATIONAL, 2014 (Journal Indexed in SCI)

- **Effect of hyperbaric oxygen treatment on tendon healing after Achilles tendon repair: an experimental study on rats**

KURAN F. D. , PEKEDİS M., YILDIZ H., Aydın F., Eliyatkin N.

ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.46, pp.293-300, 2012 (Journal Indexed in SCI)

- **Non-Invasive Urodynamic Analysis Using the Computational Fluid Dynamics Method Based on MR Images**

Atesci Y. Z. , ŞENTÜRK U., PEKEDİS M., ÇINAR M.

TURKIYE KLINIKLERI TIP BILIMLERI DERGISI, vol.31, pp.1186-1193, 2011 (Journal Indexed in SCI)

- **The effect of head trauma on fracture healing: biomechanical testing and finite element analysis**

Ozan F., YILDIZ H., BORA O. A. , PEKEDİS M., Coskun G. A. , GÖRE O.

ACTA ORTHOPAEDICA ET TRAUMATOLOGICA TURCICA, vol.44, pp.313-321, 2010 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **The evaluation of maxillary advancement technique using internal distraction osteogenesis in unilateral cleft lip and palate patient with finite element analysis,**

ÖLMEZ S., SERVET D., PEKEDİS M., YILDIZ H.

JOURNAL BIOMECHANICAL, vol.44, pp.14, 2011 (Refereed Journals of Other Institutions)

- **Ağsız Yöntemler ve Sınıflandırılması**

PEKEDİS M., YILDIZ H.

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.16, pp.1-9, 2010 (Other Refereed National Journals)

- **Eksenel Yüklü Ankastre Çubuğun Davranışının Eleman Bağımsız Galerkin Yöntemiyle Çözülmesi**

PEKEDİS M., YILDIZ H.

Pamukkale Üniversitesi Mühendislik Bilimleri Dergisi, vol.15, pp.353-361, 2009 (Other Refereed National Journals)

## Refereed Congress / Symposium Publications in Proceedings

- **A comparison of biomechanical features modified Larssen fixed, 10 formalin fixed and fresh frozen cadavers.**

YÖRÜK M. D. , PEKEDİS M., BİNBOĞA E., ÇELİK S., BİLGE O.

International Mediterranean Anatomy Congress (IMAC 2018), 6 - 09 September 2018

- **APPLICATION OF THE NUMERICAL METHOD WITH MACHINE LEARNING ALGORITHM FOR A 3D SPESIFIC FIREARM INJURY FORENSIC MODEL**

PEKEDİS M., OZAN F., KOYUNCU S., YILDIZ H.

23rd Congress of the European Society of Biomechanics, 2 - 05 July 2017

- **Structural Health Monitoring via Human-Machine Interface**

PEKEDİS M., MASCERANAS D., TURAN G., ERCAN E., FARRAR C., YILDIZ H.

6th World Conference on Structural Control and Monitoring, Barcelona, Spain, 15 - 17 July 2014, pp.169-171

- **Structural damage detection by using a single excitation record**

CEYLAN H., TURAN G., ERCAN E., PEKEDİS M.

6th World Conference on Structural Control and Monitoring, Barcelona, Spain, 15 - 17 July 2014, pp.2567-2574

- **Structural Health Monitoring with Audio presentations**

ERCAN E., PEKEDİS M., TURAN G., CEYLAN H.

6th World Conference on Structural Control and Monitoring, Barcelona, Spain, 15 - 17 July 2014, pp.2643-2649

- **Biomechanical effects of maxillary advancement on the Craniofacial Skeleton with Unilateral Cleft Lip And Palate,**

SULTAN O., DOĞAN S., PEKEDİS M., YILDIZ H.

9 th European Craniofacial Congress., Salzburg, Austria, 14 September 2011, pp.42-85

- **Finite element analysis of the Anterior Drawer Test for foot Ankle**

PEKEDİS M., YILDIZ H.

European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22

- **Biomechanical analysis of sagittal maxillary advancement by using internal maxillary distractors in bclp and non-cleft patients,**

OLMEZ S., DOĞAN S., PEKEDİS M., YILDIZ H.

87. Congress of the European Orthodontic Society., İstanbul, Turkey, 19 June 2011, pp.138-157

- **Applications of numerical methods in biomechanics**

DURAN D., KAYA E., PEKEDİS M., ŞENTÜRK U., ERKEK M., YILDIZ H.

Fifth International Participated National Biomechanics Congress, Turkey, 23 - 25 September 2010, vol.44, pp.15

- **Unilateral Dudak Damak Yarıklı Bireyde Kullanılan İki Farklı Maksiller İlerletme Tekniğinin Sonlu Elemanlar Yöntemi İle Değerlendirilmesi,**

SULTAN O., DOĞAN S., PEKEDİS M., YILDIZ H.

12.Uluslararası Türk Ortodonti Derneği Kongresi., Ankara, Turkey, 25 October 2010, pp.1

- **Unilateral Dudak Damak Yarıklı Bireyde İnternal Distraksiyon Osteogenezisi ile Maksiller İlerletme Tekniğinin Sonlu Elemanlar Yöntemi İle Değerlendirilmesi.“**

SULTAN O., DOĞAN S., PEKEDİS M., YILDIZ H.

“V.Uluslararası Katılımlı Ulusal Biyomekanik Kongresi”, İzmir, Turkey, pp.1

## Supported Projects

GÜNER M., PEKEDİS M., YILDIZ H., ACAR E., TUBITAK Project, Duruş (Postür) Bozuklukları için Sensör/Aktüatör Özellikli Akıllı Korse Geliştirilmesi, 2018 - Continues

YILDIZ H., SAYER S., PEKEDİS M., TURAN M., ÜNAL H. Y. , GÜRSES B. O. , Project Supported by Higher Education Institutions, TERSİNE MÜHENDİSLİK UYGULAMASI İLE LAPTOP KASASI ÜZERİNDE ÜRÜN GELİŞTİRME SÜRECİNİN PLM PLATFORMUNDA OPTİMİZASYONU, 2016 - 2019

## Citations

Total Citations (WOS):33

h-index (WOS):4