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Kişisel Bilgiler

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Biyografi

Akademik (eğitim&araştırma) çalışmalarına Hacettepe Üniversitesi Dişhekimliği Fakültesi Protetik Diş Tedavisi Anabilim Dalında Profesör Doktor olarak, klinik pratiğini ise Ankara'da kendi özel ofisinde sürdürmektedir.

Dental İmplantoloji, Dijital Dişhekimliği ve Kanıta Dayalı Dişhekimliği alanlarındaki araştırma ve eğitim/öğretim yetkinliklerini, günlük klinik uygulama becerisiyle birleştirmektedir. Estetik ve fonksiyonel bölgede diş/implant destekli sabit protetik restorasyonların tedavi planlaması ve klinik uygulama aşamalarında dental teknolojilerin optimizasyonu öncelikli ilgi alanıdır.

Uluslararası bir çok dergide yayımlanmış 80'in üzerinde bilimsel makalesi ve kitap bölümleri ile birlikte h-index'i 27'tir. The International Journal of Oral&Maxillofacial Implants dergisinin Associate Editor'ü, Journal of Dentistry ve Medical Engineering&Physics dergilerinin Editorial Board üyesidir. ITI (International Team for Implantology) Fellow'udur.

Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Diş Hekimliği Fakültesi, Protetik Diş Tedavisi, Türkiye 1994 - 1998

Yabancı Diller

İngilizce, C1 İleri

Sertifika, Kurs ve Eğitimler

Mesleki Eğitim, Evidence Based Practice Workshop, McMaster University, Hamilton, Ontario, Canada, 2013

Mesleki Kurs, Master's Course in Regenerative and Esthetic Periodontal Therapy, University of Bern, Switzerland., 2013

Mesleki Kurs, Master Course in GBR and Sinus Grafting Procedures, University of Berne, Switzerland., 2010

Mesleki Eğitim, CEBM Workshop in Evidence Based Practice-II., University of Oxford, England., 2010

Mesleki Eğitim, CEBM Workshop in Evidence Based Practice-I, University of Oxford, England., 2009

Mesleki Kurs, Master's Course in Esthetic Implant Dentistry, University of Berne, Switzerland, 2005

Mesleki Kurs, ITI(International Team for Implantology) Education Week., University of Berne, Switzerland., 2001

Araştırma Alanları

Sağlık Bilimleri, Diş Hekimliği, Klinik Bilimler, Protetik Diş Tedavisi, Kron Köprü

Yönetilen Tezler

Akça K., İmplant destekli tam ark tek parça üst yapı üretiminde ağız içi dijital ölçü yönteminin değerlendirilmesi, Diş Hekimliğinde Uzmanlık, M.VAROL(Öğrenci), 2017

Akça K., Ti-Zr alaşımlı dental implant ile farklı dayanak materyalleri arasındaki biyomekanik ilişkinin in-vitro olarak incelenmesi, Diş Hekimliğinde Uzmanlık, H.YERLİKAYA(Öğrenci), 2015

Akça K., Cam seramik endokronların biyomekaniksel özelliklerinin prelinik ve klinik olarak değerlendirilmesi, Doktora, D.HASANOĞLU(Öğrenci), 2012

AKÇA K., Finite element investigation of mechanical interaction of dental implants with bone, Yüksek Lisans, A.ESER(Öğrenci), 2007

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Occlusal adjustment of 3-unit tooth-supported fixed dental prostheses fabricated with complete-digital and -analog workflows: A non-randomized crossover clinical trial**
Karasan D., Sailer I., Lee H., DEMİR F., Zarauz C., AKÇA K.
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- II. **Mechanical Failure of Endocrowns Manufactured with Different Ceramic Materials: An In Vitro Biomechanical Study**
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- III. **Implant fractures: etiology, prevention, and treatment**
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- IV. **Numerical assessment of bone remodeling around conventionally and early loaded titanium and titanium-zirconium alloy dental implants.**
Akça K., Eser A., Çavuşoğlu Y., Sağırkaya E., Çehreli M.
Medical & biological engineering & computing, cilt.53, ss.453-62, 2015 (SCI-Expanded)
- V. **EFFECT OF DIGITIZING TECHNIQUES ON THE FIT OF IMPLANT-RETAINED CROWNS WITH DIFFERENT ANTI ROTATIONAL ABUTMENT FEATURES**
AKTAŞ G., Ozcan N., Aydin D. H., Sahin E., AKÇA K.
JOURNAL OF PROSTHETIC DENTISTRY, cilt.111, sa.5, ss.367-372, 2014 (SCI-Expanded)
- VI. **A pilot study of joint stability at the zirconium or titanium abutment/titanium implant interface.**
Cavusoglu Y., Akça K., Gürbüz R., Cehreli M.
The International journal of oral & maxillofacial implants, cilt.29, ss.338-43, 2014 (SCI-Expanded)
- VII. **CAD/CAM glass ceramics for single-tooth implant crowns: a finite element analysis.**
Akça K., Cavusoglu Y., Sağırkaya E., Aybar B., Cehreli M.
Implant dentistry, cilt.22, ss.623-6, 2013 (SCI-Expanded)
- VIII. **The Effects of Pulsed Electromagnetic Field (PEMF) on Osteoblast-Like Cells Cultured on Titanium and Titanium-Zirconium Surfaces**
Atalay B., Aybar B., Erguven M., Emes Y., Bultan O., AKÇA K., Yalcin S., BAYSAL U., Issever H., Cehreli M. C., et al.
JOURNAL OF CRANIOFACIAL SURGERY, cilt.24, sa.6, ss.2127-2134, 2013 (SCI-Expanded)
- IX. **Predicting bone remodeling around tissue- and bone-level dental implants used in reduced bone**

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- X. **Comparative Assessments, Meta-Analysis, and Recommended Guidelines for Reporting Studies on Histomorphometric Bone-Implant Contact in Humans**
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- XI. **Early-loaded one-stage implants retaining mandibular overdentures by two different mechanisms: 5-year results.**
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- XII. **Low-level laser therapy vs. pulsed electromagnetic field on neonatal rat calvarial osteoblast-like cells**
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- XIII. **A prospective, open-ended, single-cohort clinical trial on early loaded Titanium-zirconia alloy implants in partially edentulous patients: up-to-24-month results.**
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- XIV. **Immediate versus conventional loading of implant-supported maxillary overdentures: a finite element stress analysis.**
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- XV. **Efficacy of resonance frequency analysis in the diagnosis of compromised bone-implant interface.**
Çavuşoğlu Y., Şahin E., Akça K.
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- XVI. **Fatigue resistance of 2 different CAD/CAM glass-ceramic materials used for single-tooth implant crowns.**
Çavuşoğlu Y., Sahin E., Gürbüz R., Akça K.
Implant dentistry, cilt.20, ss.374-8, 2011 (SCI-Expanded)
- XVII. **A Randomized Controlled Clinical Trial of Feldspathic Versus Glass-Infiltrated Alumina All-Ceramic Crowns: A 3-Year Follow-up**
Cehreli M., Kokat A., Ozpay C., Karasoy D., Akca K.
INTERNATIONAL JOURNAL OF PROSTHODONTICS, cilt.24, sa.1, ss.77-84, 2011 (SCI-Expanded)
- XVIII. **Spontaneous early exposure and marginal bone loss around conventionally and early-placed submerged implants: a double-blind study.**
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Clinical oral implants research, cilt.21, ss.1327-33, 2010 (SCI-Expanded)
- XIX. **Micro ct analysis of sellar floor in pituitary adenomas, especially in Cushing's disease**
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- XX. **Marginal bone level changes and prosthetic maintenance of mandibular overdentures supported by 2 implants: a 5-year randomized clinical trial.**
Cehreli M., Uysal S., Akca K.
Clinical implant dentistry and related research, cilt.12, ss.114-21, 2010 (SCI-Expanded)
- XXI. **A Systematic Review of Marginal Bone Loss Around Implants Retaining or Supporting Overdentures**
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INTERNATIONAL JOURNAL OF ORAL & MAXILLOFACIAL IMPLANTS, cilt.25, sa.2, ss.266-277, 2010 (SCI-Expanded)
- XXII. **Torque-fitting and resonance frequency analyses of implants in conventional sockets versus controlled bone defects in vitro.**

- Akça K, Kökat A, Cömert A, Akkocaoğlu M, Tekdemir I, Cehreli M.
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- XXIII. **Predicting time-dependent remodeling of bone around immediately loaded dental implants with different designs.**
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- XXIV. **Numerical simulation of the effect of time-to-loading on peri-implant bone.**
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- XXV. **BIOMECHANICS OF ORAL IMPLANTS**
Cehreli M., AKÇA K.
DENTAL IMPLANTATION AND TECHNOLOGY, ss.125-162, 2010 (SCI-Expanded)
- XXVI. **Systematic Review of Prosthetic Maintenance Requirements for Implant-Supported Overdentures**
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- XXVII. **Marginal bone loss and prosthetic maintenance of bar-retained implant-supported overdentures: a prospective study.**
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- XXVIII. **Meta-analysis of Methods Used to Assess Implant Stability**
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INTERNATIONAL JOURNAL OF ORAL & MAXILLOFACIAL IMPLANTS, cilt.24, sa.6, ss.1015-1032, 2009 (SCI-Expanded)
- XXIX. **Implant stability and bone density: assessment of correlation in fresh cadavers using conventional and osteotome implant sockets.**
Cehreli M., Kökat A., Comert A., Akkocaoğlu M., Tekdemir I., Akça K.
Clinical oral implants research, cilt.20, ss.1163-9, 2009 (SCI-Expanded)
- XXX. **Effects of prosthesis design and impression techniques on human cortical bone strain around oral implants under load.**
Akça K., Kokat A., Sahin S., Iplikcioglu H., Cehreli M.
Medical engineering & physics, cilt.31, ss.758-63, 2009 (SCI-Expanded)
- XXXI. **Numeric simulation of time-dependent remodeling of bone around loaded oral implants.**
Eser A., Tonuk E., Akca K., Cehreli M.
The International journal of oral & maxillofacial implants, cilt.24, ss.597-608, 2009 (SCI-Expanded)
- XXXII. **Biomechanical aspects of bone-level diameter shifting at implant-abutment interface.**
Canay S., Akça K.
Implant dentistry, cilt.18, ss.239-48, 2009 (SCI-Expanded)
- XXXIII. **Nonlinear finite element analysis versus ex vivo strain gauge measurements on immediately loaded implants.**
Eser A., Akça K., Eckert S., Cehreli M.
The International journal of oral & maxillofacial implants, cilt.24, ss.439-46, 2009 (SCI-Expanded)
- XXXIV. **Fresh-frozen vs. embalmed bone: is it possible to use formalin-fixed human bone for biomechanical experiments on implants?**
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- XXXV. **Human ex vivo bone tissue strains around immediately-loaded implants supporting mandibular fixed prostheses.**
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- XXXVI. **CAD/CAM Zirconia vs. slip-cast glass-infiltrated Alumina/Zirconia all-ceramic crowns: 2-year results of a randomized controlled clinical trial.**

- Cehreli M., Kökat A., Akça K.
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- XXXVII. **Two-year prospective follow-up of implant/tooth-supported versus freestanding implant-supported fixed partial dentures.**
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The International journal of periodontics & restorative dentistry, cilt.28, ss.593-9, 2008 (SCI-Expanded)
- XXXVIII. **Effect of compromised cortical bone on implant load distribution.**
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- XXXIX. **A photoelastic and strain-gauge analysis of interface force transmission of internal-cone implants.**
Akça K., Cehreli M.
The International journal of periodontics & restorative dentistry, cilt.28, ss.391-9, 2008 (SCI-Expanded)
- XL. **PRIMARY STABILITY OF IMMEDIATE DENTAL IMPLANTS: CONVENTIONAL PLACEMENT VERSUS AN OSTEOTOME TECHNIQUE**
Kokat A. M., Comert A., Tekdemir I., AKÇA K., Cehreli M. C.
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- XLI. **Effect of surgical techniques on primary implant stability and peri-implant bone.**
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- XLII. **Platelet-rich plasma and bone healing: A histologic study in titanium bone chambers**
Akca K., Demiralp B., Dagdeviren A.
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- XLIII. **Micro-morphologic changes around biophysically-stimulated titanium implants in ovariectomized rats.**
Akca K., Sarac E., Baysal U., Fanuscu M., Chang T., Cehreli M.
Head & face medicine, cilt.3, ss.28, 2007 (SCI-Expanded)
- XLIV. **Effects of attachment design on strains around implants supporting overdentures.**
Cekiç C., Akça K., Cehreli M.
Quintessence international (Berlin, Germany : 1985), cilt.38, 2007 (SCI-Expanded)
- XLV. **Impact of similarity in chemical composition of light-polymerized resin composites on post-gel strains and interface integrity.**
Cehreli M., Cehreli Z., Akca K.
Journal of materials science. Materials in medicine, cilt.18, ss.1053-60, 2007 (SCI-Expanded)
- XLVI. **Bone strains around apically free versus grafted implants in the posterior maxilla of human cadavers.**
Cehreli M., Akkocaoglu M., Comert A., Tekdemir I., Akca K.
Medical & biological engineering & computing, cilt.45, ss.395-402, 2007 (SCI-Expanded)
- XLVII. **Primary stability of simultaneously placed dental implants in extraoral donor graft sites: a human cadaver study.**
Akkocaoglu M., Cehreli M., Tekdemir I., Comert A., Güzel E., Dağdeviren A., Akca K.
Journal of oral and maxillofacial surgery : official journal of the American Association of Oral and Maxillofacial Surgeons, cilt.65, ss.400-7, 2007 (SCI-Expanded)
- XLVIII. **Bone strains around immediately loaded implants supporting mandibular overdentures in human cadavers.**
Akça K., Akkocaoglu M., Cömert A., Tekdemir I., Cehreli M.
The International journal of oral & maxillofacial implants, cilt.22, ss.101-9, 2007 (SCI-Expanded)
- XLIX. **Numerical simulation of in vivo intraosseous torsional failure of a hollow-screw oral implant.**
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Head & face medicine, cilt.2, ss.36, 2006 (SCI-Expanded)

- L. **Neural response to sandblasted/acid-etched, TiO-blasted, polished, and mechanochemically polished/nanostructured titanium implant surfaces.**
Onur M., Sezgin A., Gürpınar A., Sommer A., Akça K., Cehreli M.
Clinical oral implants research, cilt.17, ss.541-7, 2006 (SCI-Expanded)
- LI. **Impression techniques and misfit-induced strains on implant-supported superstructures: an in vitro study.**
Cehreli M., Akça K.
The International journal of periodontics & restorative dentistry, cilt.26, ss.379-85, 2006 (SCI-Expanded)
- LII. **Biomechanical aspects of initial intraosseous stability and implant design: a quantitative micro-morphometric analysis.**
Akça K., Chang T., Tekdemir I., Fanuscu M.
Clinical oral implants research, cilt.17, ss.465-72, 2006 (SCI-Expanded)
- LIII. **Biomechanical consequences of progressive marginal bone loss around oral implants: a finite element stress analysis.**
Akca K., Cehreli M.
Medical & biological engineering & computing, cilt.44, ss.527-35, 2006 (SCI-Expanded)
- LIV. **Implant-tooth-supported fixed partial prostheses: correlations between in vivo occlusal bite forces and marginal bone reactions**
AKCA K., UYSAL S., CEHRELI M. C.
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- LV. **Towards the limit of quantifying low-amplitude strains on bone and in coagulum around immediately loaded oral implants in extraction sockets.**
Cehreli M., Comert A., Akkocaoglu M., Tekdemir I., Akca K.
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- LVI. **Human ex vivo bone tissue strains around immediately loaded implants supporting maxillary overdentures.**
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- LVII. **Human ex vivo bone tissue strains around natural teeth vs. immediate oral implants.**
Cehreli M., Akkocaoglu M., Comert A., Tekdemir I., Akca K.
Clinical oral implants research, cilt.16, ss.540-8, 2005 (SCI-Expanded)
- LVIII. **Implant design and intraosseous stability of immediately placed implants: a human cadaver study.**
Akkocaoglu M., Uysal S., Tekdemir I., Akca K., Cehreli M.
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- LIX. **Superadhesion: Attachment of nanobacteria to tissues - Model simulation**
Sommer A., Cehreli M., Akca K., Sirin T., Piskin E.
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- LX. **Narrow-diameter implants as terminal support for occlusal three-unit FPDs: a biomechanical analysis.**
Cehreli M., Akça K.
The International journal of periodontics & restorative dentistry, cilt.24, ss.513-9, 2004 (SCI-Expanded)
- LXI. **Accuracy of a manual torque application device for morse-taper implants: a technical note.**
Cehreli M., Akça K., Tönük E.
The International journal of oral & maxillofacial implants, cilt.19, ss.743-8, 2004 (SCI-Expanded)
- LXII. **Dynamic fatigue resistance of implant-abutment junction in an internally notched morse-taper oral implant: influence of abutment design.**
Cehreli M., Akça K., Iplikcioğlu H., Sahin S.
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- LXIII. **Force transmission of one- and two-piece morse-taper oral implants: a nonlinear finite element analysis.**

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- LXIV. **Accuracy of 2 impression techniques for ITI implants.**
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The International journal of oral & maxillofacial implants, cilt.19, ss.517-23, 2004 (SCI-Expanded)
- LXV. **Fabrication of a screw-retained fixed provisional prosthesis supported by dental implants.**
Köküt A., Akça K.
The Journal of prosthetic dentistry, cilt.91, ss.293-7, 2004 (SCI-Expanded)
- LXVI. **Role of mechanical environment and implant design on bone tissue differentiation: current knowledge and future contexts.**
Cehreli M., Sahin S., Akça K.
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- LXVII. **Two-year follow-up of a patient with oligodontia treated with implant- and tooth-supported fixed partial dentures: a case report.**
Giray B., Akça K., Iplikçioğlu H., Akça E.
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- LXVIII. **Evaluation of the mechanical characteristics of the implant-abutment complex of a reduced-diameter morse-taper implant. A nonlinear finite element stress analysis.**
Akça K., Cehreli M., Iplikçioğlu H.
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- LXIX. **Comparison of non-linear finite element stress analysis with in vitro strain gauge measurements on a Morse taper implant.**
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- LXX. **Comparison of microleakage properties of three different filling materials. An autoradiographic study**
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JOURNAL OF ORAL REHABILITATION, cilt.29, sa.12, ss.1212-1217, 2002 (SCI-Expanded)
- LXXI. **Comparison of uniaxial resistance forces of cements used with implant-supported crowns.**
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- LXXII. **Tensile strength of type IV dental stones dried in a microwave oven**
Hersek N. E., Canay S., Akça K., Ciftçi Y.
JOURNAL OF PROSTHETIC DENTISTRY, cilt.87, sa.5, ss.499-502, 2002 (SCI-Expanded)
- LXXIII. **Finite element stress analysis of the effect of short implant usage in place of cantilever extensions in mandibular posterior edentulism.**
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Journal of oral rehabilitation, cilt.29, ss.350-6, 2002 (SCI-Expanded)
- LXXIV. **A comparison of three-dimensional finite element stress analysis with in vitro strain gauge measurements on dental implants.**
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The International journal of prosthodontics, cilt.15, ss.115-21, 2002 (SCI-Expanded)
- LXXV. **A surgical guide for accurate mesiodistal paralleling of implants in the posterior edentulous mandible.**
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- LXXVI. **One-year follow-up of an implant with early radiographic signs of loss of osseointegration: case report.**
Akça K., Iplikçioğlu H.
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- LXXVII. **Comparative evaluation of the effect of diameter, length and number of implants supporting three-**

unit fixed partial prostheses on stress distribution in the bone.

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Journal of dentistry, cilt.30, ss.41-6, 2002 (SCI-Expanded)

LXXVIII. The use of computerized tomography for diagnosis and treatment planning in implant dentistry.

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LXXIX. Finite element stress analysis of the influence of staggered versus straight placement of dental implants.

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LXXX. Tensile bond strength of ceramic orthodontic brackets bonded to porcelain surfaces.

Kocadereli I., Canay S., Akça K.

American journal of orthodontics and dentofacial orthopedics : official publication of the American Association of Orthodontists, its constituent societies, and the American Board of Orthodontics, cilt.119, ss.617-20, 2001 (SCI-Expanded)

LXXXI. Evaluation of the effect of the residual bone angulation on implant-supported fixed prosthesis in mandibular posterior edentulism. Part II: 3-D finite element stress analysis.

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Implant dentistry, cilt.10, ss.238-45, 2001 (SCI-Expanded)

LXXXII. Evaluation of the effect of the residual bone angulation on implant-supported fixed prostheses in mandibular posterior edentulism. Part I: Spiral computed tomography study.

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