

## Assoc. Prof. Cem AKÇA

### Personal Information

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**Address:** Yıldız Teknik Üniversitesi Davutpaşa Kampüsü Metalürji ve Malzeme Mühendisliği Bölümü

### Biography

Doçent Doktor Akça, İstanbul'da doğdu. Lisans, yüksek lisans ve doktora derecelerini sırasıyla 1999, 2002 ve 2006 yıllarında Yıldız Teknik Üniversitesi, Metalürji ve Malzeme Mühendisliği Bölümü'nden aldı. Daha sonra Prag'daki Çek Teknik Üniversitesi'nde Malzeme Bilimi alanında doktora sonrası (post-doc) çalışmaları yaptı. Mevcut araştırma konuları biyobozunur alaşımların ve biyopolimerlerin biyomedikal uygulamalarına odaklanmaktadır. Halen Metalürji ve Malzeme Mühendisliği Bölümünde Doçent, Bölüm Başkan Yardımcısı olarak görev yapmaktadır ve Türkiye'deki Mendeley Danışmanlarından biridir. Malzeme Bilimi, Proje Yönetimi, Girişimcilik (lisansüstü), Biyopolimerler (lisansüstü), Biyomedikal Malzemeler ve Tasarım Esasları dersleri vermektedir.

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Professor Akça was born in Istanbul, Turkey. He received BS, MS and Ph.D. degrees in Metallurgical and Materials Engineering from Yıldız Technical University, Istanbul, Turkey in 1999, 2002 and 2006, respectively. He then did a post-doctoral fellowship in materials science at Czech Technical University in Prague. His current research focuses on biomedical applications of biodegradable alloys and biopolymers. Currently, he is occupied in the Department of Metallurgical and Materials Engineering as an associate professor (and vice-chair) and he is one of the Mendeley Advisors in Turkey. He teaches Materials Science, Project Management, Entrepreneurship (graduate), Biopolymers (graduate), Biomedical Materials and Principles of Engineering Design.

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### Education Information

Post Doctorate, Çek Teknik Üniversitesi, Makine, Malzeme Bilimi Ve Mühendisliği, Turkey 2011 - 2012

Doctorate, Yıldız Teknik Üniversitesi, Kimya-Metalürji Fak., Metalürji Ve Malzeme Müh., Turkey 2002 - 2006

Post Graduate, Yıldız Teknik Üniversitesi, Kimya-Metalürji Fak., Metalürji Ve Malzeme Müh. Böl., Turkey 1999 - 2002

Under Graduate, Yıldız Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Metallurgical and Materials Engineering, Turkey 1995 - 1999

### Foreign Languages

English, C1 Advanced

French, A1 Beginner

## Certificates, Courses and Trainings

R&D Management, Introduction to the Certified Peer Reviewer Course, Elsevier Researcher Academy, 2019

Occupational Health and Safety, İş Sağlığı ve Güvenliği Eğitimi ve Stajı, Private School, 2017

Education Management and Planning, Dökümhanelerde Aşılama Teknikleri Eğitim Semineri, TMMOB Metalürji Mühendisleri Odası İstanbul Şubesi, 2003

IT, Microsoft Certified Professional (MCP), Microsoft, 2001

Education Management and Planning, İndüksiyon Ergitme Eğitimi, TMMOB Metalürji Mühendisleri Odası İstanbul Şubesi, 2001

Finance, İşletme Yönetimi, YTÜ SEM, 2000

## Dissertations

Doctorate, Östemperlenmiş Küresel Grafitli Dökme Demirde Alaşım Elementlerinin Östenit-Martenzit ödnüşümüne Etkisi, Yıldız Teknik Üniversitesi, Metalürji Ve Malzeme Mühendisliği, Malzeme Bilimi Ve Mühendisliği, 2006

Post Graduate, Östemperlenmiş Küresel Grafitli Dökme Demirde Östenit-Martenzit Dönüşümü, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Metalürji Ve Malzeme Mühendisliği, 2002

## Research Areas

Artificial Organs and Biomaterials, Metallurgical and Materials Engineering, Material science and engineering, Nondestructive Testing, Composites, Polymeric Materials, Biomaterials, Thermal Treatment, Metallic Materials, Principles of Foundry Technology

## Academic Titles / Tasks

Associate Professor, Yıldız Teknik Üniversitesi, Kimya Metalürji Fakültesi, Metalürji Ve Malzeme Mühendisliği, 2013 - Continues

Assistant Professor, Yıldız Teknik Üniversitesi, Kimya Metalürji Fakültesi, Metalürji Ve Malzeme Mühendisliği, 2012 - 2013

Research Assistant PhD, Yıldız Teknik Üniversitesi, Kimya Metalürji Fakültesi, Metalürji Ve Malzeme Mühendisliği, 2006 - 2012

Research Assistant, Yıldız Teknik Üniversitesi, Kimya Metalürji Fakültesi, Metalürji Ve Malzeme Mühendisliği, 1999 - 2006

## Professional Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Metalürji Ve Malzeme Mühendisliği Bölümü, 2016 - 2020

Deputy Head of Department, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Metalürji Ve Malzeme Mühendisliği Bölümü, 2012 - 2015

Foundry Director, Kara Kuvvetleri Komutanlığı 2Nci Ana Bakım Merkezi Komutanlığı, 2006 - 2007

## **Courses**

Computer-Aided Engineering Drawing, Under Graduate, 2019 - 2020  
Project Management in Engineering, Post Graduate, 2019 - 2020  
Araştırma Teknikleri ve Bilimsel Etik, Doctorate, 2016 - 2017  
Principles of Engineering Design, Under Graduate, 2016 - 2017  
Biyopolimer Teknolojisi, Post Graduate, 2016 - 2017  
Zırh Teknolojileri, Post Graduate, 2016 - 2017  
Materials Science, Under Graduate, 2016 - 2017  
Non-destructive Testing, Under Graduate, 2012 - 2013  
Materials Science (Mathematical Eng.), Under Graduate, 2012 - 2013

## **Advising Theses**

Akça C., BİYOPOLİMERİK MALZEMEDEN ÜÇ BOYUTLU YAZDIRMA TEKNOLOJİSİYLE SERVİKAL İMPLANT VE DOKU İSKELESİ ÜRETİMİ, Post Graduate, B.AY(Student), 2019  
Akça C., POLİMERİK İMPLANT KULLANIMINDA KARŞILAŞILAN PROBLEMLERİN YARATICI PROBLEM ÇÖZME TEORİSİ İLE DEĞERLENDİRİLMESİ, Post Graduate, Ş.ÖZTÜRK(Student), 2019  
Akça C., BİYOBOZUNUR MAGNEZYUM ALAŞIMLARINDAN RAHİM İÇİ ARAÇ ÜRETİMİ, Post Graduate, E.KAYMAZ(Student), 2019  
Akça C., Yeprem H. A. , Dental İmplant Malzemelerine Uygulanan Farklı Yüzey Modifikasyonlarının İncelenmesi, Post Graduate, S.ÖZGÜR(Student), 2019  
Akça C., Kitosan kaplamalı biyobozunur magnezyum alaşımından üretilen implant malzemelerinin antibakteriyel etkinliğinin araştırılması, Post Graduate, D.UĞURLU(Student), 2019  
AKÇA C., Benzinli Araçlarda Kullanılan Yakıt Enjektörlerinin Krom Kaplama Prosesinin Geliştirilmesi, Post Graduate, B.Aybike(Student), 2016  
DERMAN S., AKÇA C., Magnezyum Alaşımından İmal Edilen Vücut İçi İmplantlar İçin Polimer Esaslı Kaplamaların Geliştirilmesi, Post Graduate, S.Acar(Student), 2016  
Akça C., Development of chrome plating process on fuel injectors used in gasoline engines, Post Graduate, B.AYBİKE(Student), 2016  
AKÇA C., Takım Çeliklerine Uygulanabilecek Yüzey İşlemleri ve Yüzey Karakterizasyonu, Post Graduate, T.Taşkıran(Student), 2013

## **Jury Memberships**

Post Graduate, Yüksek Lisans Tez Savunması, Marmara Üniversitesi, January, 2017  
Post Graduate, Yüksek Lisans Tez Savunması, Yıldız Teknik Üniversitesi, September, 2016  
Post Graduate, Yüksek Lisans Tez Savunması, Yıldız Teknik Üniversitesi, July, 2016

## **Designed Lessons**

Akça C., Protection of Intellectual Properties, Post Graduate, 2018 - 2019

## **Taught Courses And Trainings**

Akça C., SolidWorks, 2019 - 2019

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

- **VitD3-loaded solid lipid nanoparticles: stability, cytotoxicity and cytokine levels**  
Demirbilek M., Turkoglu N., Akturk S., Akça C.  
JOURNAL OF MICROENCAPSULATION, vol.34, pp.454-462, 2017 (Journal Indexed in SCI)
- **EFFECT OF THE ATOMIC RADIUS OF ALLOYING ELEMENTS ON FORMATION OF STRAIN MARTENSITE IN BAINITIC DUCTILE IRON**  
AKÇA C., Kinikoglu N. G.  
METAL SCIENCE AND HEAT TREATMENT, vol.52, pp.420-423, 2011 (Journal Indexed in SCI)
- **The Effect of Atomic Radius of Alloying Elements on the Formation of Strain-Induced Martensite in ADI**  
AKÇA C.  
METAL SCIENCE AND HEAT TREATMENT, vol.52, pp.420-423, 2011 (Journal Indexed in SCI Expanded)
- **Effect of Casting Method of AZ91 D Magnesium Alloy on the Degradation Behaviour in Simulated Body Fluid**  
AKÇA C.  
MATERIALS TESTING, vol.53, pp.536-539, 2011 (Journal Indexed in SCI)
- **Formation of the Stress-Relieved Structure in the Welded Region of Gas Tungsten Arc Welded Armor Steel with the Help of Heat Distribution**  
KARAASLAN A., Akça C.  
METAL SCIENCE AND HEAT TREATMENT, vol.51, pp.585-588, 2009 (Journal Indexed in SCI Expanded)
- **Formation of Stress-Relieved Structure by Heat Distribution in Welding Region of Gas Tungsten Arc Welded Armor Steel**  
AKÇA C.  
METAL SCIENCE AND HEAT TREATMENT, vol.51, pp.585-588, 2009 (Journal Indexed in SCI Expanded)
- **FORMATION OF THE STRESS-RELIEVED STRUCTURE IN THE WELDED REGION OF GAS TUNGSTEN-ARC-WELDED ARMOR STEEL WITH THE HELP OF HEAT DISTRIBUTION**  
KARAASLAN A., AKÇA C.  
METAL SCIENCE AND HEAT TREATMENT, vol.51, pp.585-588, 2009 (Journal Indexed in SCI)
- **Microstructural and Impact Considerations of Heat Affected Zone in Gas Tungsten Arc Welding of Armor Steel**  
Akca C.  
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.45, pp.554-564, 2008 (Journal Indexed in SCI Expanded)
- **The Effect of Austempering Time on Heat Affected Zone in Gas Tungsten Arc Welding of Unalloyed Austempered Ductile Iron**  
KARAASLAN A., AKÇA C.  
METALL, vol.5, pp.295-297, 2008 (Journal Indexed in SCI Expanded)
- **Characterization of the Heat Affected Zone in Gas Tungsten Arc Welds of Unalloyed Austempered Ductile Iron**  
KARAASLAN A., Akca C.  
MATERIALS TESTING-MATERIALS AND COMPONENTS TECHNOLOGY AND APPLICATION, vol.50, pp.264-267, 2008 (Journal Indexed in SCI)

### Articles Published in Other Journals

- **Wear Behavior of AZ91D Magnesium Composite**  
Erarslan Y., Akça C.  
Journal of Engineering and Natural Sciences, vol.33, pp.458-464, 2015 (International Refereed University Journal)
- **Weldability of class 2 armor steel using gas tungsten arc welding**  
Akça C.  
Archives of Materials Science and Engineering, vol.34, pp.110-112, 2008 (Refereed Journals of Other Institutions)

- **Tankların Kısa Tarihi ve Zırhlı Muharebe Araçları için Korunma Sistemleri**  
AKÇA C.  
Metalurji Malzeme Dergisi, pp.90-94, 2007 (Other Refereed National Journals)
- **Yarı-Katı Fazda Magnezyum Üretimi**  
AKÇA C., KARAASLAN A.  
Metalurji Malzeme Dergisi, pp.58-61, 2006 (Other Refereed National Journals)
- **ÖKGDD'de Kalıcı Şekil Değişikliği ile Oluşan Östenit Martenzit Dönüşümü**  
AKÇA C.  
Metalurji Malzeme Dergisi, pp.74-79, 2006 (Other Refereed National Journals)
- **Optik Sürücülerde Firmware Kurtarma Rehberi**  
AKÇA C.  
PC Net, pp.192-193, 2005 (National Non-Refereed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- **Personal Security Measures For Education Professionals and Users**  
Akça C., Kayak S.  
International Distance Education Conference, Gazimagusa, Cyprus (Kkct), 27 - 29 October 2010, pp.959-965
- **Biodegradable implant and scaffold production using 3D printing technology**  
Akça C., Ay B.  
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019, pp.505
- **Investigation of Antimicrobial Effect of Chitosan-Coated Biodegradable Implant Materials Manufactured from a Magnesium Alloy**  
Akça C., Uğurlu D.  
International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2018), Ankara, Turkey, 22 - 23 November 2018, pp.184
- **A Novel Metallic Biodegradable Material for the Intrauterine Device Production and its Biodegradation Behavior in Simulated Uterine Fluid**  
Akça C., Kaymaz E.  
INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EurasianBioChem 2018), Ankara, Turkey, 26 - 27 April 2018, pp.247
- **Development Process of Biodegradable Metallic Implants Used for Fixing Bone Fractures**  
AKÇA C., Kaymaz E., Uğurlu D., Sert E.  
INNOVATION IN NURSING 2017 INTERNATIONAL STUDENT CONGRESS, İstanbul, Turkey, 13 March 2017, vol.1, pp.30-33
- **Effect of solvent and concentration on coating quality of dip coated polycaprolactone (PCL) on AZ91E alloy to reduce degradation rate**  
ACAR S., DERMAN S., AKÇA C.  
2nd International Conference on Engineering and Natural Sciences (ICENS 2016), Sarajevo, Bosnia And Herzegovina, 24 May 2016, pp.1
- **Investigation of White Spot Formation During The Hard Chromium Plating of Fuel Injectors Used In Gasoline Engines**  
AKÇA C., Yalçinyüz B. A.  
25th Anniversary International Conference on Metallurgy and Materials, Brno, Czech Republic, 25 May 2016
- **Examination of Coating Parameters of Biopolymer Coating on AZ91D Magnesium Alloy Used as Implant in Human Body**  
AKÇA C.  
24th International Conference on Metallurgy and Materials, Brno, Czech Republic, 03 June 2015
- **THE EFFECT OF ALUMINUM ON THE BIODEGRADATION BEHAVIOR OF MAGNESIUM-BASED**

## **INDUSTRIAL CASTING ALLOYS IN SALINE**

AKÇA C., DERMAN S., ACAR S., HAZAR A. B. , MANSUROĞLU B.

23rd International Conference on Metallurgy and Materials METAL 2014, Brno, Czech Republic, 21 May 2014

### **MICROSTRUCTURAL EVALUATION OF IMPACT ZONE OF SIC PARTICULATE REINFORCED AZ91D MAGNESIUM ALLOYS UNDER BALLISTIC IMPACT ON A SPECIALLY DESIGNED GRAVITATIONAL BALLISTIC TEST APPARATUS**

AKÇA C., Erarslan Y.

22nd International Conference on Metallurgy and Materials, Brno, Czech Republic, 22 May 2013

### **THE EFFECT OF HOMOGENISATION COOLING RATE ON DEFORMATION STRESS AND HARDENABILITY OF Al-6063 ALLOY**

AKÇA C., ERARSLAN Y.

21st International Conference on Metallurgy and Materials, Brno, Czech Republic, 23 May 2012, no.212

### **Feasibility Study to Develop Magnesium-Based Materials to Produce Biomedical Implants and Appliances for Turkey**

AKÇA C.

21st International Conference on Metallurgy and Materials, Brno, Czech Republic, 23 May 2012

### **Gas Tungsten Arc Welding of Austempered S355 Steels: The Effect of Austempering Conditions on the Final Mechanical Properties of Welded Steels**

AKÇA C.

6th European Conference on Steel and Composite Structures (Eurosteel 2011), Budapest, Hungary, 31 August 2011, pp.2163-2168

### **Personal Security Measures for Education Professionals and Users**

AKÇA C.

International Distance-Education Conference 2010 (IDE-C 2010), Gazimağosa, Cyprus (Kktc), 27 October 2010, pp.959-961

### **Metalürji ve Malzeme Mühendislikleri İçin Bilgi Teknolojileri Eğitiminin İrdelenmesi-The Study of Information Technologies Education for Metallurgical and Materials Engineering**

AKÇA C., KAYAK S.

International Science and Technology Conference 2010 (ISTE-C 2010), Gazimagusa, Cyprus (Kktc), 27 October 2010, vol.1, pp.511-515

### **Laser Beam Weldability of Commercially Pure Magnesium/AM60 Alloy Joint**

AKÇA C.

19th International Conference Metallurgy and Materials, Brno, Czech Republic, 18 May 2010

### **Geometric Characterization of Dissimilar Joints in Nd:YAG Laser Beam Welding X 15 CrNiSi 20 12 / GGG-NiSiCr 35 5 2**

AKÇA C.

19th International Conference Metallurgy and Materials, Brno, Czech Republic, 18 May 2010

### **The Influence of Carbide Distribution on The Properties of Hot Work Tool Steels**

AKÇA C., KARAASLAN A.

18th International Conference Metallurgy and Materials, Hradec Nad Moravicí, Czech Republic, 19 May 2009, no.30

### **The Effects of Nitriding Time-Temperature and Composition of Gas Mixture on The Mechanical Properties of Indexable Inserts**

AKÇA C., KARAASLAN A.

18th International Conference Metallurgy and Materials, Hradec Nad Moravicí, Czech Republic, 19 May 2009

### **High Temperature Examination of Laser-Welded Titanium Alloy**

AKÇA C., KARAASLAN A.

V. Congress of Metallurgists of Macedonia with International Participation, Ohrid, Macedonia, 17 September 2008

### **The Effect of Normalizing Parameters on the Phase Morphology and the Mechanical Properties in Armor Steel**

AKÇA C., KARAASLAN A.

17th International Conference Metallurgy and Materials, Hradec Nad Moravicí, Czech Republic, 17 September

- 2008, no.224  
**The Effect of Amount of Magnesium on The Precipitation Hardening Mechanism of AA-7075 Alloy**  
AKÇA C., KARAASLAN A.
- V. Congress of Metallurgists of Macedonia with International Participation, Ohrid, Macedonia, 17 September 2008  
**Influence of Austempering Time on the Morphology of Heat Affected Zone in Welding of Upper Bainitic Unalloyed Austempered Ductile Iron**  
AKÇA C., KARAASLAN A.  
17th International Conference Metallurgy and Materials, Hradec Nad Moravicí, Czech Republic, 13 May 2008, no.225
- **Sıkıştırılmalı Döküm Sonrası Doğrudan Östemperleme İşlemi**  
AKÇA C.  
2. Döküm ve Çevre Sempozyumu ve Sergisi, İstanbul, Turkey, 24 October 2007, vol.1, pp.171-180
- **The Effect of Alloying Elements on the Martensitic Transformation Rate in Plastically Deformed ADI**  
AKÇA C.  
10th National Conference of Metallurgy with International Participation, Varna, Bulgaria, 28 May 2007
- **The Effects of Co, Mo, Ni Alloying Elements on the Austenite-Martensitic Transformation on ADI by Plastic Deformation**  
AKÇA C., Kınkoğlu N. G.  
The 66th World Foundry Congress,, İstanbul, Turkey, 06 September 2004, vol.2, pp.989-1002
- **Production of Prototype Ductile Iron Mining Wagon Wheels By Centrifugal Casting Using Composite Mould**  
Akça C., Luş H. M. , Kuşkonmaz N.  
Forum Of Mining Engineers 2003, Dnipropetrovsk, Ukraine, 16 October 2003, vol.1, pp.257-261
- **Austenite-Martensite Transformation in ADI by Plastic Deformation**  
Akça C., Luş H. M. , Kuşkonmaz N.  
Proceedings of 3th Balkan Metallurgy Conference, Ohrid, Macedonia, 24 September 2003, vol.1, pp.99-102
- **Östemperlenmiş Küresel Grafitli Dökme Demirde Kalıntı Östenit-Martenzit Dönüşümü**  
AKÇA C.  
2. Isıl İşlem Sempozyumu, İstanbul, Turkey, 07 February 2002
- **Orta ve Yüksek Mukavemetli Alüminyum İşlem Aşamalarında Homojenizasyon Prosesinin Şekil Değiştirme Gerilimi ve Sertleşebilme Kabiliyetine Etkisi**  
ERARSLAN Y., Akça C., Çiğdem M., Asa S., Akbulut Z., Şahin E., Yıldız T.
- 4. Alüminyum Sempozyumu  
**T Zone of SiC Particulate Reinforced AZ91D Magnesium Alloys Under Ballistic Impact on A Specially Designed Gravitational Ballistic Test Apparatus**  
ERARSLAN Y., Akça C.  
22st International Conference on Metallurgy and Materials

## Other Publications

- **Mobil İşletim Sistemleri**  
AKÇA C.  
Other, 2007
- **PDA ile Elektronik Cihaz Kontrolü**  
AKÇA C.  
Other, 2006
- **Daha Sağlıklı Bir Beden için PC Kullanıcılarına Öneriler**  
AKÇA C.  
Other, 2005
- **Microsoft Media Center Extender**

AKÇA C.  
Other, 2005

## Expert Reports

- **Dövme Çelik Kanca Hasarı Hk.**  
AKÇA C., ERARSLAN Y.  
12. Asliye Hukuk, pp.20, İstanbul, 2014

## Supported Projects

- AKÇA C., KAYMAZ E., Project Supported by Higher Education Institutions, Biyobozunur Magnezyum Alaşımından Rahim İçi Araç RİA Üretimi, 2018 - 2020
- AKÇA C., UĞURLU D., Project Supported by Higher Education Institutions, Biyobozunur Magnezyum Alaşımından Üretilen İmplantların Antibakteriyal ve Antifungal Kaplamalarının Araştırılması, 2018 - 2020
- AKÇA C., AY B., Project Supported by Higher Education Institutions, Biyobozunur polimerlerden 3-boyutlu baskı teknolojisiyle implant ve doku iskelesi üretimi, 2018 - 2020
- AKÇA C., Project Supported by Higher Education Institutions, Benzinli Araçlarda Kullanılan Yakıt Enjektörlerinin Krom Kaplama Prosesinin Geliştirilmesi, 2016 - 2017
- AKÇA C., Project Supported by Higher Education Institutions, Magnezyum Alaşımından İmal Edilen Vücut İçi İmplantlar için Polimer Esaslı Kaplamaların Geliştirilmesi, 2016 - 2016
- AKÇA C., Other Supported Projects, Magnezyum Alaşımının Ergitilmesinde Çevreye Duyarlı Alternatif Eriyik Koruyucu Geliştirilmesi, 2012 - 2014
- AKÇA C., ERARSLAN Y., Other Supported Projects, DEĞİŞTİRİLEBİLİR MÜHİMMAT KULLANABİLEN LABORATUVAR TİPİ BALİSTİK TEST CİHAZI TASARIMI, ÜRETİMİ VE PARTİKÜL TAKVİYELİ HAFİF METAL KOMPOZİTLERİN BALİSTİK PERFORMANSLARININ ARAŞTIRILMASI, 2011 - 2013
- AKÇA C., Other Supported Projects, Improving Mechanical and Biomedical Properties of Magnesium Alloys, 2011 - 2012
- AKÇA C., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Dolu Kalıba Döküm Teknolojisi ve Uygulaması, 2004 - 2005

## Patent

- Akça C., Cervical device for birth control, Patent, CHAPTER A Human Needs, Initial Registration, 2019
- Akça C., Novel device for birth control, Patent, CHAPTER A Human Needs, Initial Registration, 2017

## Design

- Akça C., A novel method to place expiry date on drug bottles, Graphic Design / User Experience (UX) Design, January 2019

## Activities in Scientific Journals

- Materials Letters, Evaluation Committee Member, 2011 - Continues

## Memberships / Tasks in Scientific Organizations



Member, 2011 - Continues  
Member, 2011 - Continues  
Consultant, 1999 - Continues

## **Scientific Refereeing**

INTERNATIONAL JOURNAL OF CONCRETE STRUCTURES AND MATERIALS, SCI Journal, July 2020  
GAZİ ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, National Scientific Refreed Journal, November 2019  
CBU INTERNATIONAL CONFERENCE, Other journals, June 2017  
TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, TÜBİTAK, Turkey, April 2017  
African Journal of Biotechnology, SCI Journal, January 2011  
African Journal of Biotechnology (ISSN 1684-5315), SCI Journal, January 2011  
Materials Letters (ISSN 0167-577X), SCI Journal, January 2011  
Materials Letters, SCI Journal, January 2011

## **Scientific Consultations**

Balkan Center for Advanced Casting Technologies, Scientific Consultancy, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Metallurgical And Materials Engineering, Turkey, 1999 - 2009

## **Tasks In Event Organizations**

Akça C., PLENARENO MATERIAL SCIENCE AND NANOTECHNOLOGY CONFERENCE/WEBINAR, Scientific Congress, Turkey, Kasım 2020

## **Scientific Research / Working Group Memberships**

Cdrsp – Center For Rapid And Sustainable Product Development, Politécnico de Leiria, Portekiz, <http://cdrsp.ipleiria.pt/>, 2019 - Continues  
Biyoteknoloji ve Genetik, YILDIZ TEKNİK ÜNİVERSİTESİ, Türkiye, 2017 - Continues

## **Mobility Activity**

Erasmus Programme, Lecturing, Politecnico de Leiria, Portugal, 2018 - 2018  
Other Exchange Programme, Post Doc, Czech Technical University, Czech Republic, 2011 - 2012

## **Invited Congress and Symposium Activities**

Corporate Social Responsibility (Erasmus+ Training Course), Attendee, Tallinn, Estonia, 2015

## **Citations**

Total Citations (WOS):9  
h-index (WOS):2

## **Awards**

AKÇA C., Yayın Teşvik Ödülü, YTÜ, January 2009

AKÇA C., Yayın Teşvik Ödülü, TÜBİTAK, January 2008