

# Prof. SÜLEYMAN TEKELİ

## Personal Information

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## Education Information

Post Doctorate, University of Manchester Institute of Science and Technology (UMIST), Manchester Materials Science Centre, Department of Materials, England 1996 - 1997

Doctorate, University of Manchester Institute of Science and Technology (UMIST), Manchester Materials Science Centre, Department of Materials, England 1993 - 1997

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Metal Eğitimi (YI) (Tezli), Turkey 1989 - 1991

Undergraduate, Gazi University, Teknik Eğitim Fakültesi, Metalurji Eğitimi, Turkey 1983 - 1987

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Superplastic Deformation of Zirconia Ceramics, University of Manchester Institute of Science and Technology (UMIST), 1997

Postgraduate, Yay Çeliklerinin Isıl İşlemi, Gazi University, Fen Bilimleri Enstitüsü, Metal Eğitimi (YI) (Tezli), 1991

## Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Ceramic Materials, Testing and Control of Materials, Composites, Material Characterization, Powder Metallurgy

## Academic Titles / Tasks

Professor, Gazi University, Teknoloji Fakültesi, Metalurji Ve Malzeme Mühendisliği, 2011 - Continues

Professor, Gazi University, Teknik Eğitim Fakültesi, Metalurji Eğitimi, 2006 - 2011

Associate Professor, Gazi University, Teknik Eğitim Fakültesi, Metalurji Eğitimi, 2000 - 2006

Assistant Professor, Gazi University, Teknik Eğitim Fakültesi, Metalurji Eğitimi, 1999 - 2000

Research Assistant, Gazi University, Teknik Eğitim Fakültesi, Metalurji Eğitimi, 1988 - 1999

## Academic and Administrative Experience

Dean, Gazi University, Teknik Eğitim Fakültesi, 2019 - Continues  
Fakülte Yönetim Kurulu Üyesi, Gazi University, Teknoloji Fakültesi, 2019 - Continues  
Dean, Gazi University, Teknoloji Fakültesi, 2019 - Continues  
Fakülte Kurulu Üyesi, Gazi University, Teknoloji Fakültesi, 2019 - Continues  
Member of the Senate, Gazi University, 2019 - Continues  
University Executive Board Member, Gazi University, 2019 - Continues  
Dean, Gazi University, Endüstriyel Sanatlar Eğitim Fakültesi, 2019 - Continues  
Misafir Profesör, University of Northeastern, Department of Mechanical, 2010 - 2010  
Misafir Profesör, University of California, Irvine, Department of Chemical Engineering and Materials Science, 2004 - 2004  
Misafir Profesör, Michigan State University, Department of Materials Science, 2004 - 2004  
Misafir Profesör, University of Northeastern, Department of Mechanical, 2003 - 2003  
Misafir Profesör, The University of Tokyo, Department of Advanced Materials Science, 2002 - 2002  
Doktora Sonrası Çalışma (Post-Doctorate), Manchester Institute of Science and Technology, Institute of Science and Technology, Department of Materials, 1996 - 1997  
Doktora, Manchester Institute of Science and Technology, Institute of Science and Technology, Department of Materials, 1992 - 1997

## Courses

MEM-5431 İleri Mühendislik Seramikleri, Postgraduate  
MEM-216 Malzeme Bilimi II, Undergraduate  
MEM-215 Malzeme Bilimi I, Undergraduate  
MEM-5571 Metalurjide Faz Diyagramları, Postgraduate  
MEM-411 İşyeri Eğitimi, Undergraduate, 2015 - 2016, 2019 - 2020, 2020 - 2021  
MEM-450 MEZUNİYET PROJESİ, Undergraduate, 2018 - 2019, 2019 - 2020, 2020 - 2021  
83FBE5001 YÜKSEK LİSANS TEZİNE HAZIRLIK, Postgraduate, 2020 - 2021  
83FBE5003 YÜKSEK LİSANS SEMİNER, Postgraduate, 2020 - 2021  
MEM-412 TASARIM VE BİTİRME PROJESİ, Undergraduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018  
MEM-322 FAZ DİYAGRAMLARI, Undergraduate, 2012 - 2013, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018  
MEM-400 MEZUNİYET TEZİ, Undergraduate, 2014 - 2015, 2015 - 2016, 2016 - 2017, 2017 - 2018  
MEM-219 MALZEME LABORATUARI, Undergraduate, 2014 - 2015, 2016 - 2017, 2017 - 2018  
8011037 YÜKSEK LİSANS UZMANLIK ALAN DERSİ, Postgraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016  
5001037 YÜKSEK LİSANS TEZİ, Postgraduate, 2014 - 2015, 2015 - 2016  
8011028 YÜKSEK LİSANS UZMANLIK ALAN DERSİ, Postgraduate, 2013 - 2014, 2014 - 2015  
6001016 DOKTORA TEZİ, Doctorate, 2012 - 2013, 2013 - 2014, 2014 - 2015  
5001028 YÜKSEK LİSANS TEZİ, Postgraduate, 2012 - 2013, 2013 - 2014, 2014 - 2015  
9011016 DOKTORA UZMANLIK ALAN DERSİ, Doctorate, 2012 - 2013, 2013 - 2014, 2014 - 2015  
9011037 DOKTORA UZMANLIK ALAN DERSİ, Doctorate, 2014 - 2015  
5171337 METALURJİDE FAZ DİYAGRAMLARI, Postgraduate, 2012 - 2013, 2014 - 2015  
MET-400 MEZUNİYET TEZİ, Undergraduate, 2005 - 2006, 2006 - 2007, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2012 - 2013, 2013 - 2014  
MET-101 MALZEME BİLİMİ VE LAB I, Undergraduate, 2000 - 2001, 2001 - 2002, 2002 - 2003, 2003 - 2004, 2004 - 2005, 2005 - 2006, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014, 2014 - 2015  
8011016 YÜKSEK LİSANS UZMANLIK ALAN DERSİ, Postgraduate, 2012 - 2013, 2013 - 2014  
5001016 YÜKSEK LİSANS TEZİ, Postgraduate, 2012 - 2013, 2013 - 2014  
MET-412 PROJE UYGULAMASI, Undergraduate, 2009 - 2010, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014  
MET-102 MALZEME BİLİM VE LAB. II, Undergraduate, 2002 - 2003, 2003 - 2004, 2004 - 2005, 2007 - 2008, 2008 - 2009, 2009 - 2010, 2010 - 2011, 2012 - 2013  
MET-411 PROJE TASARIMI, Undergraduate, 2010 - 2011, 2011 - 2012, 2012 - 2013, 2013 - 2014

5081316 FAZ DİYAGRAMLARI, Postgraduate, 2012 - 2013  
MEM-207 MALZEME BİLİMİ I, Undergraduate, 2011 - 2012  
EE-101 MALZEME BİLİMİ, Undergraduate, 2010 - 2011  
MET-201 MALZEME BİLGİSİ, Undergraduate, 2002 - 2003, 2003 - 2004, 2004 - 2005, 2005 - 2006, 2006 - 2007, 2007 - 2008  
MET-425 METAL DIŞI MALZEME (SERAMİK VE POL), Undergraduate, 2002 - 2003, 2003 - 2004, 2004 - 2005  
MET-317 METAL DEKORASYON TEKNİKLERİ, Undergraduate, 2001 - 2002  
MET-312 ÜRETİM İÇİN MALZEME TASARIMI, Undergraduate, 2000 - 2001

## Advising Theses

TEKELİ S., Equal channel angular densification/pressing (ECAD/ECAP) method with the aluminium produced and analyzing the wear resistance of this material, Postgraduate, A.KOCA(Student), 2014  
TEKELİ S., Methods of casting and produced by powder metallurgy AA 2014-Al4C3 investigation of wear behaviour of metal matrix composites, Postgraduate, A.TOPUZ(Student), 2012  
TEKELİ S., Investigation of the effects of liquid metal movement on microstructure and mechanical properties of A356 aluminum cast alloys, Doctorate, T.TUNÇAY(Student), 2012  
Tekeli S., Karataş Ç., Production of fine grained structures in aluminum powders by equal channel angular densification/pressing method and deformation behaviour of this material, Doctorate, M.TURAN(Student), 2012  
TEKELİ S., Eşit kanal-açışal presleme yöntemi ile 7075 alüminyum alaşımlarında nano boyutlu tane üretimi ve mikroyapısal karakterizasyonun belirlenmesi, Postgraduate, A.AYTAÇ(Student), 2010  
Salman S., Tekeli S., Baryum oksit ve lantanyum oksit katkılı kübik zirkonya seramikte mikroyapı, mekanik özellikler ve iyonik iletkenliğin incelenmesi, Doctorate, B.AKTAŞ(Student), 2008  
TEKELİ S., IMPROVEMENT OF ROOM TEMPERATURE MECHANICAL PROPERTIES OF VARIOUS AMOUNT OF METAL OXIDE DOPING CUBIC ZIRCONIA (c-ZrO<sub>2</sub>) USED AS ELECTROLYTE MATERIAL FOR SOLID OXIDE FUEL CELLS, Postgraduate, T.BOYACIOĞLU(Student), 2007  
Tekeli S., Gürdal O., Farklı oranlarda Al<sub>2</sub>O<sub>3</sub> katkılı % 8 mol yitria ile dengelenmiş kübik zirkonyada mikroyapı-elektriksel iletkenlik ilişkisi, Postgraduate, A.KAYIŞ(Student), 2006  
TEKELİ S., Katı oksit yakıt hücrelerinde elektrolit malzemesi olarak kullanılan TiO<sub>2</sub> katkılı kübik zirkonyadaki faz dengesi ve iletkenliğin incelenmesi, Postgraduate, A.AKÇİMEN(Student), 2006  
TEKELİ S., GÜRÜ M., Farklı oranlarda SiO<sub>2</sub> katkılı kübik zirkonyada (8YSCZ) sinterlenebilirlik ve statik tane büyümesinin incelenmesi, Postgraduate, O.EMRE(Student), 2006  
Tekeli S., Kocatepe K., Köpük model döküm yönteminde döküm ve model parametrelerinin incelenmesi, Doctorate, N.YALÇIN(Student), 2006  
TEKELİ S., Biçimlendirme sınır doğruları tekniği ile killerin şekillendirilebilirliğine yüzey koşullarının etkisi, Postgraduate, M.KILINÇ(Student), 2005  
TEKELİ S., Biçimlendirme sınır doğruları tekniği ile killerin biçimlendirilebilirliğine deformasyon hızının etkisi, Postgraduate, B.İŞİK(Student), 2005  
TEKELİ S., Ara kritik tavlama ısıl işlemlerinin düşük alaşımlı sade karbonlu toz metal çeliklere uygulanabilirliği ve mekanik özelliklere etkisinin araştırılması, Doctorate, A.GÜRAL(Student), 2004  
TEKELİ S., Değişik oranlarda alümina katkılı kübik zirkonyadaki (8YSCZ) statik tane büyümesi ve bu malzemenin oda sıcaklığı mekanik özellikleri, Postgraduate, Ü.DEMİR(Student), 2004  
TEKELİ S., %8 mol yitria ile stabilize edilmiş kübik zirkonyanın sinterlenebilirliğine ve tane büyümesine çeşitli metal oksitlerin etkisinin incelenmesi, Postgraduate, B.AKTAŞ(Student), 2002  
Tekeli S., Çetinkaya C., Alüminyum alaşımlarının kaynaklanabilirliği ve değişik parametrelerin mekanik özellikler ile mikroyapı üzerine etkisi, Postgraduate, O.KURTULUŞ(Student), 2001

## Jury Memberships

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

- I. **Age-Hardening Responses of Al-Cu Alloy Powders Processed by Equal Channel Angular Pressing**  
Sarıtaş G., Tekeli S., Taşkesen A., Demir Ü., Gural A.  
Physics Of Metals And Metallography, vol.121, no.14, pp.114-124, 2020 (Journal Indexed in SCI Expanded)
- II. **The Effects of Cr and Zr Additives on the Microstructure and Mechanical Properties of A356 Alloy**  
TUNÇAY T., ÖZYÜREK D., Dıřpınar D., TEKELİ S.  
TRANSACTIONS OF THE INDIAN INSTITUTE OF METALS, vol.73, no.5, pp.1273-1285, 2020 (Journal Indexed in SCI)
- III. **Ionic conductivity of MgAl<sub>2</sub>O<sub>4</sub>-doped 8YSZ ceramics**  
Aktas B., TEKELİ S.  
ARABIAN JOURNAL OF GEOSCIENCES, vol.12, no.15, 2019 (Journal Indexed in SCI)
- IV. **Effects of Different Solid Solution Temperatures on Microstructure and Mechanical Properties of the AA7075 Alloy After T6 Heat Treatment**  
TEKELİ S., Simsek I., Simsek D., ÖZYÜREK D.  
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.38, pp.892-896, 2019 (Journal Indexed in SCI)
- V. **Shear bond strength of ceramic brackets bonded to surface-treated feldspathic porcelain after thermocycling**  
ÇEVİK P., ERASLAN O., ESER K., TEKELİ S.  
INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS, vol.41, no.3, pp.160-167, 2018 (Journal Indexed in SCI)
- VI. **Microstructure-bifilm interaction and its relation with mechanical properties in A356**  
TUNÇAY T., TEKELİ S., ÖZYÜREK D., Dıřpınar D.  
INTERNATIONAL JOURNAL OF CAST METALS RESEARCH, vol.30, no.1, pp.20-29, 2017 (Journal Indexed in SCI)
- VII. **Improvements in micro structural and mechanical properties of ZrO<sub>2</sub> ceramics after addition of BaO**  
AKTAŞ B., TEKELİ S., SALMAN S.  
CERAMICS INTERNATIONAL, vol.42, no.3, pp.3849-3854, 2016 (Journal Indexed in SCI)
- VIII. **Production of nano-sized grains in powder metallurgy processed pure aluminum by equal channel angular densification (ECAD) and equal channel angular pressing (ECAP)**  
Ipekci M. T., Gural A., TEKELİ S.  
MATERIALS TESTING, vol.57, no.6, pp.580-584, 2015 (Journal Indexed in SCI)
- IX. **Electrical Conductivity of Boron Oxide-Doped Yttria-Stabilized Cubic Zirconia (8YSZ)**  
Aktas B., Tekeli S.  
ACTA PHYSICA POLONICA A, vol.127, no.4, pp.1380-1383, 2015 (Journal Indexed in SCI)
- X. **Effect of Co<sub>3</sub>O<sub>4</sub> on the Fracture Toughness and Microstructure of Yttria-Stabilized Cubic Zirconia (8YSZ)**  
Aktas B., Tekeli S.  
ACTA PHYSICA POLONICA A, vol.127, no.4, pp.1384-1387, 2015 (Journal Indexed in SCI)
- XI. **Influence of Co<sub>3</sub>O<sub>4</sub> addition on the ionic conductivity and microstructural properties of yttria-stabilized zirconia (8YSZ)**  
AKTAŞ B., TEKELİ S.  
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.105, no.6, pp.577-583, 2014 (Journal Indexed in SCI)
- XII. **Grain growth and sinterability in Er<sub>2</sub>O<sub>3</sub>-doped cubic zirconia (c-ZrO<sub>2</sub>)**  
AKTAŞ B., TEKELİ S., Kucuktuvek M.  
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.105, no.2, pp.208-214, 2014 (Journal Indexed in SCI)
- XIII. **Influence on Static Grain Growth and Sinterability of BaO Addition into 8YSZ**  
Aktas B., Tekeli S., Salman S.  
ACTA PHYSICA POLONICA A, vol.125, no.2, pp.652-655, 2014 (Journal Indexed in SCI)
- XIV. **Electrical Conductivity of Er<sub>2</sub>O<sub>3</sub>-Doped c-ZrO<sub>2</sub> Ceramics**  
AKTAŞ B., TEKELİ S., Kucuktuvek M.

- JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.23, no.1, pp.349-355, 2014 (Journal Indexed in SCI)
- XV. **Effect of Temperature on Densification and Deformation Behaviour of Pure Aluminium Powders Processed by Equal Channel Angular Densification and Pressing**  
Ipekci M. T., TEKELİ S., EŞME U., KÜLEKÇİ M. K.  
MATERIALS TESTING, vol.56, no.4, pp.300-305, 2014 (Journal Indexed in SCI)
- XVI. **Synthesis and Properties of La<sub>2</sub>O<sub>3</sub>-Doped 8 mol% Ytria-Stabilized Cubic Zirconia**  
AKTAŞ B., TEKELİ S., SALMAN S.  
JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE, vol.23, no.1, pp.294-301, 2014 (Journal Indexed in SCI)
- XVII. **THE EFFECT OF DIFFUSER AND NON-DIFFUSER RUNNER SYSTEMS ON THE MECHANICAL PROPERTIES OF A356 ALLOY**  
Tuncay T., TEKELİ S., ÖZYÜREK D.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.28, no.2, pp.241-249, 2013 (Journal Indexed in SCI)
- XVIII. **Effect of Silicon Content on Wear Behavior of Heat Treated Powder Metallurgy Steels**  
TEKELİ S., GÜRAL A.  
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.32, no.2, pp.119-123, 2013 (Journal Indexed in SCI)
- XIX. **MICROSTRUCTURAL CHARACTERIZATION OF 7075 ALUMINUM ALLOY SEVERE DEFORMED BY EQUAL CHANNEL-ANGULAR PRESSING (ECAP)**  
GÜRAL A., TEKELİ S., Aytac A., Turkan M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.27, no.4, pp.807-812, 2012 (Journal Indexed in SCI)
- XX. **High Temperature Tensile Properties of Equal Channel Angular Pressed Al-Zn-Mg-Cu Alloy**  
TEKELİ S., GÜRAL A.  
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.31, no.6, pp.675-678, 2012 (Journal Indexed in SCI)
- XXI. **Microstructural and Mechanical Properties of Er<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub> Ceramics with Different Er<sub>2</sub>O<sub>3</sub> Contents**  
TEKELİ S., AKTAŞ B., Kucuktuvek M.  
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.31, no.6, pp.701-706, 2012 (Journal Indexed in SCI)
- XXII. **Exchange of experience the effect of synthesis time on the wear behavior of Al-8%Ti alloy produced by mechanical alloying**  
Ozyurek D., Tekeli S., Tuncay T., Yilmaz R.  
POWDER METALLURGY AND METAL CERAMICS, vol.51, pp.491-495, 2012 (Journal Indexed in SCI)
- XXIII. **Influence of different heat treatments on dry sliding wear properties of PM steel with 1 wt.% Si addition**  
Tekeli S., Gural A.  
Metallofizika i Noveishie Tekhnologii, vol.34, no.9, pp.1273-1281, 2012 (Journal Indexed in SCI Expanded)
- XXIV. **Microstructure and dry sliding wear properties of 3Si-2Ni and 3Si-2Mn powder metallurgy steels with different graphite content**  
Tekeli S., Gural A., Ozyurek D.  
Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, vol.225, no.8, pp.814-820, 2011 (Journal Indexed in SCI Expanded)
- XXV. **Wear Properties of Titanium and Ti6Al4V Titanium Alloy by Mechanical Milling**  
ÖZYÜREK D., TEKELİ S.  
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.30, pp.175-180, 2011 (Journal Indexed in SCI)
- XXVI. **Effect of Al<sub>2</sub>O<sub>3</sub> amount on microstructure and wear properties of Al-Al<sub>2</sub>O<sub>3</sub> metal matrix composites prepared using mechanical alloying method**  
Ozyurek D., Tekeli S., Gural A., Meyveci A., Guru M.  
Powder Metallurgy and Metal Ceramics, vol.49, pp.289-294, 2010 (Journal Indexed in SCI Expanded)
- XXVII. **An Investigation on Wear Resistance of SiCp-Reinforced Aluminium Composites Produced by Mechanical Alloying Method**

- ÖZYÜREK D., Tekeli S.  
SCIENCE AND ENGINEERING OF COMPOSITE MATERIALS, vol.17, no.1, pp.31-38, 2010 (Journal Indexed in SCI)
- XXVIII. **Production of Polymer Matrix Composite Particleboard from Pistachio Shells and Improvement of its Fire Resistance by Fly Ash**  
GÜRÜ M., Sahin M., Tekeli S., Tokgoz H.  
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.28, no.3, pp.191-195, 2009 (Journal Indexed in SCI)
- XXIX. **The effect of silica doping on the microstructure and mechanical properties of c-ZrO<sub>2</sub>/SiO<sub>2</sub> composites**  
Tekeli S., Boyacioglu T., Gural A.  
Ceramics International, vol.34, no.8, pp.1959-1964, 2008 (Journal Indexed in SCI Expanded)
- XXX. **Microstructural, mechanical and electrical properties of alumina-doped cubic zirconia (c-ZrO(2))**  
Tekeli S., Kayis A., Guru M.  
JOURNAL OF SOLID STATE ELECTROCHEMISTRY, vol.12, pp.791-797, 2008 (Journal Indexed in SCI)
- XXXI. **Phase stability, microstructural evolution and room temperature mechanical properties of TiO<sub>2</sub> doped 8 mol% Y<sub>2</sub>O<sub>3</sub> stabilized ZrO<sub>2</sub> (8Y-CSZ)**  
Chen T., TEKELİ S., Dillon R. P. , Mecartney M. L.  
CERAMICS INTERNATIONAL, vol.34, no.2, pp.365-370, 2008 (Journal Indexed in SCI)
- XXXII. **Processing of Cer-Met Composite Material from Zn and B<sub>2</sub>O<sub>3</sub>**  
Guru M., Tekeli S., Cakanyildirim C., Cabbar C.  
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.27, no.4, pp.243-248, 2008 (Journal Indexed in SCI)
- XXXIII. **Microstructural design and high temperature tensile deformation behaviour of 8 mol% yttria stabilized cubic zirconia (8YCSZ) with SiO<sub>2</sub> additions**  
Tekeli S., Guerue M.  
CERAMICS INTERNATIONAL, vol.34, no.1, pp.137-140, 2008 (Journal Indexed in SCI)
- XXXIV. **Microstructural Characterization of Intercritically Annealed 0.5% (wt) Ni and Mn Added Steels Prepared by Powder Metallurgy Method**  
Tekeli S., Gural A.  
Materials Science And Technology, vol.23, pp.72-78, 2007 (Journal Indexed in SCI)
- XXXV. **Dry sliding wear behaviour of heat treated iron based powder metallurgy steels with 0.3% Graphite + 2% Ni additions**  
Tekeli S., Gural A.  
Materials and Design, vol.28, no.6, pp.1923-1927, 2007 (Journal Indexed in SCI Expanded)
- XXXVI. **Microstructural characterization of intercritically annealed low alloy PM steels**  
Gural A., Tekeli S.  
Materials and Design, vol.28, no.4, pp.1224-1230, 2007 (Journal Indexed in SCI Expanded)
- XXXVII. **High-temperature deformation behaviour of TiO<sub>2</sub>-doped 2 mol.% Y<sub>2</sub>O<sub>3</sub>-stabilized ZrO<sub>2</sub> (8Y-CSZ) under tension and compression**  
Tekeli S., Chen T., Nagayama H., Sakuma T., Mecartney M. L.  
CERAMICS INTERNATIONAL, vol.33, no.5, pp.869-874, 2007 (Journal Indexed in SCI)
- XXXVIII. **The solid solubility limit of Al<sub>2</sub>O<sub>3</sub> and its effect on densification and microstructural evolution in cubic-zirconia used as an electrolyte for solid oxide fuel cell**  
Tekeli S.  
MATERIALS & DESIGN, vol.28, no.2, pp.713-716, 2007 (Journal Indexed in SCI)
- XXXIX. **Dry sliding wear behavior of low carbon dual phase powder metallurgy steels**  
Tekeli S., Gural A., Ozyurek D.  
Materials and Design, vol.28, no.5, pp.1685-1688, 2007 (Journal Indexed in SCI Expanded)
- XL. **Sintering, phase stability and room temperature mechanical properties of c-ZrO<sub>2</sub> ceramics with TiO<sub>2</sub> addition**  
Tekeli S., Gural A.  
Materials and Design, vol.28, no.5, pp.1707-1710, 2007 (Journal Indexed in SCI Expanded)
- XLI. **Effect of intercritical annealing and quenching plus tempering heat treatments on microstructure of**

## **Ni added powder metallurgy steels**

Tekeli S., Gural A.

Materials and Design, vol.28, no.4, pp.1353-1357, 2007 (Journal Indexed in SCI Expanded)

- XLII. **Densification and grain-growth behavior of various amounts of SiO<sub>2</sub> doped 8YSCZ/SiO<sub>2</sub> composites**  
Tekeli S., Guerue M., Saglam O. E.  
MATERIALS AND MANUFACTURING PROCESSES, vol.22, pp.710-714, 2007 (Journal Indexed in SCI)
- XLIII. **Tensile properties of iron-based P/M steels with ferrite plus martensite microstructure**  
Gural A., Tekeli S., Ando T.  
JOURNAL OF MATERIALS SCIENCE, vol.41, no.23, pp.7894-7901, 2006 (Journal Indexed in SCI)
- XLIV. **Manufacturing of urea-formaldehyde-based composite particleboard from almond shell**  
Guerue M., Tekeli S., Bilici I.  
MATERIALS & DESIGN, vol.27, no.10, pp.1148-1151, 2006 (Journal Indexed in SCI)
- XLV. **The flexural strength, fracture toughness, hardness and densification behaviour of various amount of Al<sub>2</sub>O<sub>3</sub>-doped 8YSCZ/Al<sub>2</sub>O<sub>3</sub> composites used as an electrolyte for solid oxide fuel cell**  
Tekeli S.  
MATERIALS & DESIGN, vol.27, no.3, pp.230-235, 2006 (Journal Indexed in SCI)
- XLVI. **Microstructural characterization and impact toughness of intercritically annealed PM steels**  
Tekeli S., Gural A.  
Materials Science and Engineering A, vol.406, pp.172-179, 2005 (Journal Indexed in SCI Expanded)
- XLVII. **Influence of alumina addition on grain growth and room temperature mechanical properties of 8YSCZ/Al<sub>2</sub>O<sub>3</sub> composites**  
Tekeli S.  
COMPOSITES SCIENCE AND TECHNOLOGY, vol.65, no.6, pp.967-972, 2005 (Journal Indexed in SCI)
- XLVIII. **Fracture toughness (K<sub>1C</sub>), hardness, sintering and grain growth behaviour of 8YSCZ/Al<sub>2</sub>O<sub>3</sub> composites produced by colloidal processing**  
Tekeli S.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.391, pp.217-224, 2005 (Journal Indexed in SCI)
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## Scholarships

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Tekeli S., TÜBİTAK Uluslararası yayın teşvik ödülü 1998, (3 makale için), Tübitak, January 1998

## **Non Academic Experience**

Municipality, Ankara Büyükşehir Belediyesi-Gazi Üniversitesi Mesleki ve Teknik Eğitim Kursları (BELTEK), Gazi Üniversitesi

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