

EK-3

ÖZGEÇMİŞ (ÖRNEK FORM)

- Adı Soyadı:** Cihangir Duran
- Doğum Tarihi:** 30.09.1971
- Unvanı:** Prof. Dr.
- Öğrenim Durumu:**

| Derece | Alan | Üniversite | Yıl |
|---------------|-----------------------|------------------------------------|------------|
| Lisans | Metaller Mühendisliği | Orta Doğu Teknik Üniversitesi | 1994 |
| Y. Lisans | Malzeme Bil. ve Müh. | Gebze Yüksek Teknoloji Enstitüsü | 1996 |
| Doktora | Malzeme Bil. ve Müh. | Pennsylvania State University, ABD | 2001 |

- Akademik Unvanlar:**

Yardımcı Doçentlik Tarihi : 2002
Doçentlik Tarihi : 2006
Profesörlük Tarihi : 2013

- Yönetilen Yüksek Lisans ve Doktora Tezleri**

6.1. Yüksek Lisans Tezleri

- Ferroelektrik seramiklerin mekanik ve elektrik özelliklerinin araştırılması / Ceren Efe 2007
- Su bazlı baryum titanat asıtlarında kararlılığın ve reolojik özelliklerin incelenmesi / Aslı Çelebi 2007
- Katı oksit yakıt hücrelerinde kullanılacak seramiklerin üretim ve karakterizasyonu / Ezgi Demiralp 2009
- Elektroseramik, katkılı ve katkısız Pb(Zr,Ti)O₃ tozlarının sentezlenmesi, seramiklerin üretilmesi ve karakterizasyonları / İdil Ayan 2009
- Kurşun esaslı elektroseramik tozların sentezlenmesi, seramiklerin üretilmesi ve karakterizasyonları / Erdem Akça 2010
- Baryum titanat esaslı seramiklerin üretilmesi ve karakterizasyonları / Serkan Ersoy 2010
- Vibro-acoustic design, manufacturing and characterization of a tonpizl -type underwater acoustic device / Polat Kurt, 2017
- Fabrication and characterization of radome ceramics by gel casting / Nazım Ecebaşı, 2018
- Fabrication and characterization of low temperature co-fired ceramics/ Meryem Gülsüm Dursun, 2018

6.2. Doktora Tezleri

Bitirilmiş doktora tezi bulunmamaktadır. 1 adet devam eden doktora tezi vardır.

- Yayınlar**

7.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI & SSCI & Arts and Humanities)

- S. Eroglu and C. Duran, "Processing and properties of a 85%Cr₃C₂-10.5%Ni-4.5%Fe cermet," *Scripta Materialia*, 37[7], pp.991-997 (1997).
- C. Duran and S. Eroglu, "Liquid-phase sintering and properties of Cr₃C₂/NiCr cermets", *Journal of Materials Processing Technology*, Vol. 74, pp.69-73 (1998).
- C. Duran, S. Trolier-McKinstry, and G. L. Messing, "Fabrication and electrical properties of textured Sr_{0.53}Ba_{0.47}Nb₂O₆ ceramics by templated grain growth," *Journal of the American Ceramic Society*, 83[9], pp. 2203-2213 (2000)
- C. Duran, G. L. Messing, and S. Trolier-McKinstry, "Densification and phase formation in seeded, reactively sintered Sr_{0.53}Ba_{0.47}Nb₂O₆ ceramics," *Journal of Materials Science*, 37, 5041-5049 (2002).

5. **C. Duran**, S. Trolier-McKinstry, and G. L. Messing, "Dielectric and piezoelectric properties of textured $\text{Sr}_{0.53}\text{Ba}_{0.47}\text{Nb}_2\text{O}_6$ ceramics prepared by templated grain growth", *Journal of Materials Research*, 18 [1], 228-238 (2003).
6. **C. Duran**, S. Trolier-McKinstry, and G. L. Messing, "Processing and Electrical Properties of $0.5\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3$ - 0.5PbTiO_3 ceramics," *Journal of Electroceramics*, 10[1], 47-55 (2003).
7. K. Yurdal, **C. Duran**, S. Alkoy, and H. I. Bakan "Texture development in $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ ceramics fabricated by reactive templated grain growth," *Key Engineering Materials* Vol.264-268, pp.1285-89 (2004).
8. **C. Duran**, G. L. Messing, and S. Trolier-McKinstry, "Molten salt synthesis of anisometric particles in the $\text{SrO-Nb}_2\text{O}_5\text{-BaO}$ system," *Materials Research Bulletin* Vol. 39/11, pp. 1679-89 (2004).
9. G. L. Messing, E. M. Sabolsky, S. Trolier-McKinstry, **C. Duran**, S. Kwon, B. Brahmaraoutu, P. Park, H. Yilmaz, P.W. Rehrig, K. B. Eitel, E. Suvaci and M. Seabaugh, "Templated Grain Growth of Textured Piezoelectric Ceramics" *Critical Reviews in Solid State and Materials Sciences* Vol. 29, pp. 49-96 (2004)
10. **C. Duran** and Y. K. Tur, "Templated Grain Growth of Textured Mullite/Zirconia Composites" *Materials Letters* Vol. 59/2-3, pp 245-249 (2005)
11. **C. Duran**, J. Yu, K. Sato, Y. Hotta, and K. Watari, "Colloidal Processing, Surface Characterization and Sintering of Nano ZrO_2 Powders," *Journal of Materials Research* Vol. 20[5], pp 1348-55 (2005)
12. Y. Jia, Y. Hotta, **C. Duran**, K. Sato and K. Watari, "Kinetic study on Nano- ZrO_2 from ZrOCl_2 solution modified with diglycol," *Journal of the Ceramic Society of Japan* 113(5), pp 380-382 (2005)
13. Y. Jia, **C. Duran**, Y. Hotta, K. Sato and K. Watari, "The effect of polyelectrolyte on preparing macroporous ZrO_2 ceramics" *Journal of Materials Science* 40, pp. 2903 – 2909, (2005)
14. Y. Jia, **C. Duran**, Y. Hotta, K. Sato and K. Watari, "Macroporous ZrO_2 ceramics prepared from colloiddally stable nanoparticles building blocks and organic templates" *Journal of Colloid and Interface Science* 291 (2005) 292–295
15. **C. Duran**, J. Yu, Y. Hotta, K. Sato, and K. Watari, "Hydrothermal synthesis of nano ZrO_2 powders" *Key Engineering Materials* 317-318 (2006) pp. 195-198
16. W. Chen, S. Kume, **C. Duran** and K. Watari, "Preparation of single crystalline $\text{Sr}_{0.5}\text{Ba}_{0.5}\text{Nb}_2\text{O}_6$ particles" *Journal of the European Ceramic Society* 26[4-5] (2006) pp. 647-653
17. W. Chen, S. Kume, **C. Duran** and K. Watari, "Effect of different salts on fabrication of $\text{Sr}_{0.5}\text{Ba}_{0.5}\text{Nb}_2\text{O}_6$ particles in molten salt synthesis," *Key Engineering Materials* 317-318 (2006) pp. 69-72
18. **C. Duran** and Y. K. Tur, "Phase Formation and Texture Development in Mullite/Zirconia Composites Fabricated by Templated Grain Growth", *Journal of Materials Science*, 41 (2006) 3303-3313
19. **C. Duran**, "Processing and ferroelectric behavior of textured $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ ceramics", *Journal of Materials Science*, 41 (22) (2006) 7620-7627
20. T. Wlodek, M. Sopicka-Lizer, H. Gocmez and **C. Duran** "Influence of the milling environment on the reaction progress in the $\text{Si-Al}_2\text{O}_3$ system" *Journal of the European Ceramic Society*,27(2-3) (2007) 739-742
21. **C. Duran**, Y. Hotta, K. Sato, and K. Watari "Covalently Connected Particles in Green Bodies Fabricated by Tape Casting", *Journal of the American Ceramic Society*, 90 [1] 279–282 (2007)
22. T. Nagaoka, **C. Duran**, T. Isobe, Y. Hotta and K.i Watari, "Hydraulic Alumina Binder for Extrusion of Alumina Ceramics", *Journal of the American Ceramic Society*,90 [12] 3998–4001 (2007)
23. Y. Hotta, **C. Duran**, K. Sato, T. Nagaoka and K. Watari "Densification and Grain Growth in BaTiO_3 Ceramics Fabricated from Nanopowders Synthesized by Ball-milling Assisted Hydrothermal Reaction" *Journal of the European Ceramic Society* 28, 599–604 (2008)
24. **C. Duran**, H. Gocmez and H. Yilmaz "Dispersion of mechanochemically-activated SiC and Al_2O_3 powders" *Materials Science and Engineering A* 475 [1-2], 23-26 (2008)
25. Y. Hotta, K. Tsunekawa, **C. Duran**, K. Sato, T. Nagaoka and K. Watari "Low-temperature sintering of BaTiO_3 powders prepared by hydrothermal process with ball milling system" *Materials Science and Engineering A* 475 [1-2], 57-61 (2008)
26. S. Alkoy, **C. Duran** and D. A. Hall, "Electrical properties of textured $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ ceramics fabricated by reactive templated grain growth", *Journal of the American Ceramic Society* 91 [5] 1597–1602 (2008)
27. E. Yassitepe, C.Öztürk, H.C. Yatmaz, K.Öztürk, **C.Duran** "Photocatalytic Efficiency of ZnO Plates in Degradation of Azo Dye Solutions" *Journal of Photochemistry and Photobiology A: Chemistry*, 198, 1–6 (2008)

28. **C. Duran**, K. Sato, Y. Hotta, T. Nagaoka, and K. Watari, “Eco-friendly processing and methods for ceramic materials – A review”, *Journal of the Ceramic Society of Japan*, 116[11], 1175-1181 (2008)
29. Erdem AKÇA, Hüseyin YILMAZ and **Cihangir DURAN** “Processing and electrical properties in lead-based ($\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$, $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3$, PbTiO_3) systems”, *Journal of the American Ceramic Society*, 93[1], 28–31 (2010)
30. H. Gocmez, M. Tuncer, Z. Gokyer, H. Fujimori, **C. Duran** “The preparation and characterization of $\text{Al}_2\text{O}_3/\text{ZrO}_2$ nanocrystalline composite by a simple gel method” *Materials Sci. Eng. B*, 173, 80-83 (2010)
31. S. Dursun and **C. Duran**, “Processing and electrical properties of $\text{Pb}_{0.6}\text{Ba}_{0.4}\text{Nb}_2\text{O}_6$ ceramics”, *Journal of Materials Research*, 25(11), 2143-2149 (2010)
32. Soonil Lee, Sinan Dursun, **Cihangir Duran**, and Clive A. Randall “Thermoelectric Power Factor Enhancement of Textured Ferroelectric $\text{Sr}_x\text{Ba}_{1-x}\text{Nb}_2\text{O}_{6-\delta}$ Ceramics”, *Journal of Materials Research* 26(1) (2011), pp. 26 -30.
33. Erdem AKÇA and **Cihangir DURAN** “Fabrication and Characterizations of ($\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$, $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3$, PbTiO_3) Ternary System Ceramics”, *Ceramics International* 37 (7), pp. 2135-2142 (2011)
34. H.S. Güder, E. Sahin, O. Sahin, H. Göçmez, **C. Duran** and H. Ali Çetinkara , “Vickers and Knoop Indentation Microhardness Study of β -SiAlON Ceramic” 120(6), *Acta Physica Polonica A* (2011)
35. Nagaoka, Takaaki; **Duran, Cihangir**; Gocmez, Hasan; Hideki Hyuga and Koji Watari “Hydraulic alumina as an inorganic binder for extruding and sintering Si_3N_4 ceramics”, *Journal of the Ceramic Society of Japan*, 120(1404), pp. 330-333 (2012)
36. Malgorzata Sopicka-Lizer, **Cihangir Duran**, Hasan Gocmez, Tomasz Pawlik, Marta Mikuskiewicz and Ken MacKenzie “Effect of high energy milling on the formation and properties of sialon ceramics prepared from silicon nitride - aluminium nitride precursors” *Ceramics International*, 39(4), pp. 4269-4279 (2013)
37. Nuray Karakus, A. Osman Kurt, **Cihangir Duran**, Cem Öztürk and H. Özkan Toplan “Sintering behaviour of silicon nitride powders produced by carbothermal reduction and nitridation” *Advanced Powder Technology*, 24(3), pp. 697-702 (2013)
38. Erdem Akça, İstek Tatar and **Cihangir Duran** “Dielectric and Electromechanical Properties of Mn-doped $0.2875 \text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $0.2875 \text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3$ - 0.425PbTiO_3 Ceramics” *Journal of Materials Science*, 48(23), pp. 8287-8291 (2013)
39. **Cihangir Duran**, Kimiyasu Sato, Yuji Hotta, Hasan Göçmez and Koji Watari, “Ball Milling Assisted Hydrothermal Synthesis of Nano ZrO_2 Powders,” *Ceramics International*, 41(4), pp.5588-5593 (2015)
40. **Cihangir Duran**, Abdullah Yildiz, Sinan Dursun, Jon Mackey and Alp Sehrioglu, “Thermoelectric characteristics of textured $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ ceramics”, *Scripta Materialia*, 112, pp. 114-117 (2016)
41. **Cihangir Duran**, Sinan Dursun and Erdem Akça, “High strain, $\langle 001 \rangle$ -textured $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3$ - PbTiO_3 piezoelectric ceramics”, *Scripta Materialia*, 113, pp. 14-17 (2016)
42. **Cihangir Duran**, Salih Cengiz, Nazım Ecebaş, Sinan Dursun and Erdem Akça, “Processing and characterization of $\langle 001 \rangle$ -textured $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3$ - PbTiO_3 ceramics”, *Journal of Materials Research*, 32(13), pp2471-77 (2017)
43. Polat Kurt, Murat Şansal, İstek Tatar, **Cihangir Duran** and Sadettin Orhan “Vibro-Acoustic Design, Manufacturing and Characterization of a Tonpilz-Type Transducer” *Applied Acoustics*, 150 (2019) 27–35
44. Gülsüm Meryem Dursun and **Cihangir Duran**, “Glass alumina composites for functional and structural applications” *Ceramics International*, 45 (2019) 12550–12557
45. Nazım Ecebaş, Gülsüm Meryem Dursun, Aysu Hande Yeşilova, **Cihangir Duran**, “Gel casting of mullite for radome applications” *International Journal of Applied Ceramic Technology*, 2019

7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler

7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (Proceedings) basılan bildiriler

1. S. Eroğlu and **C. Duran**, “Effect of sintering temperature on the properties of $\text{Cr}_3\text{C}_2/\text{NiFe}$ cermets”, *European Powder Metallurgy Symposium (EURO PM'95)*, Birmingham, UK, p. 210, (1995).
2. **C. Duran**, S. T-McKinstry, and G. L. Messing, “Processing and electrical properties of $\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3$ - PbTiO_3 ceramics at the morphotropic phase boundary,” *Proceedings of 12th IEEE International Symposium*

- on the *Applications of Ferroelectrics*, Edited by S.K. Streiffer, B.J. Gibbons, and T. Tsurumi, pp.409-412 (2000).
3. E. Sabolsky, **C. Duran**, B. Brahmaroutu, S. Trolier-McKinstry, and G. L. Messing, "Fabrication of textured ferroelectric ceramics by templated grain growth," *Polish Ceramics Bulletin*, Edited By J. Liz, 60, pp.21-26 (2000).
 4. E. Sabolsky, **C. Duran**, B. Brahmaroutu, S. Trolier-McKinstry, and G. L. Messing, "Textured ferroelectric ceramics by templated grain growth with property anisotropy", *Proceedings of the 7th International Conference on Ceramic Processing Science*, 15-18 May 2000, Inuyama City, Japan, and appeared in *Ceramic Processing Science-VI*, Edited by S. Hirano, G. L. Messing, N.E. Claussen, American Ceramic Society, Westerville, OH, pp.747-753 (2001).
 5. E. Sabolsky, **C. Duran**, B. Brahmaroutu, S. Trolier-McKinstry, and G. L. Messing, "Templated grain growth-The art and science of patterning ceramic microstructures," *Techna-Monographs in Materials and Society 5*, Edited by N. Claussen, pp. 237-45 (2001).
 6. S. Trolier-McKinstry, E. Sabolsky, S. Kwon, **C. Duran**, T. Yoshimura, J.-H. Park, Z. Zhang, and G. L. Messing "Oriented films and ceramics of relaxor ferroelectric – PbTiO₃ solid solutions," In *Piezoelectric Materials in Devices*, ed. N. Setter. EPFL Swiss Federal Institute of Technology, Lausanne, 2002, pp. 497–518.
 7. M. Sopicka-Lizer, T. Pawlik, T. Włodek, M. Tańcula, **C. Duran** and H. Gocmez," Preparation and characterization of nanostructured silicon-nitride based ceramics" *Ecers*, Verona, Italy 2008
 8. Mehmet KONYAR, Didem OVALI, H. Cengiz YATMAZ, **Cihangir DURAN** and Koray ÖZTÜRK "Photocatalytic Efficiency of ZnO/TiO₂ Composite Plates in Degradation of RR180 Dye Solutions" *Advances in Science and Technology*, 12TH INTERNATIONAL CERAMICS CONGRESS, EDITORS: PIETRO VINCENZINI, MARK HADFIELD AND ALBERTO PASSERONE, Vol. 65, pp 244-250 (2010) Trans Tech Publications, Switzerland
 9. Ali ÖZER, Yahya Kemal TÜR and **Cihangir DURAN**, "Effect of Polymorphic Zirconia Phases on the Mechanical and Wear Properties of Cr₃C₂-NiCr Cermets" *Advances in Science and Technology*, 12TH INTERNATIONAL CERAMICS CONGRESS, EDITORS: PIETRO VINCENZINI, MARK HADFIELD AND ALBERTO PASSERONE, VOL.64, pp 59-65 (2010) Trans Tech Publications, Switzerland
 10. K. Sato, M. Kawai, Y. Hotta, T. Nagaoka, K. Watari and **C. Duran**, "Mutual linkage of particles in ceramic green bodies through reactive organic binders" *Advanced Processing and Manufacturing Technologies for Structural and Multifunctional Materials*, Edited by: Tatsuki Ohji and Mrityunjay Singh, Vol. 28 No 7, pp. 35-47 (2008) John Wiley and Sons.
 11. K. Sato, Y. Hotta, T. Nagaoka, K. Watari and **C. Duran**, "Novel ceramic forming methods with a reactive organic binder," *Environmental Issues and waste management technologies in the materials and nuclear industries XII*, Edited by: Alex Cozzi and Tatsuki Ohji, Ceramic Transactions, Volume 207, pp.235-243 (2009), John Wiley and Sons.
 12. Yuji Hotta, **Cihangir Duran**, Kimiyasu Sato, and Koji Watari "Colloidal Processing and Sintering of Nano-ZrO₂ Powders Using Polyethylenimine (PEI)" *Characterization, Design, And Processing of Nanosize Powders And Nanostructured Materials*, Edited by: Kevin G. Ewsuk and Yury Gogotsi, Ceramic Transactions, Volume 190, pp.85-95 (2006), John Wiley and Sons.
 13. Tür, Y. K., Sünbül, A. E., Yilmaz, H. and **Duran, C.** Effect of Mullite Grains Orientation on Toughness of Mullite/Zirconia Composites, in *Ceramic Materials and Components for Energy and Environmental Applications* (eds D. Jiang, Y. Zeng, M. Singh and J. Heinrich), John Wiley & Sons, Inc., Hoboken, NJ, USA, (2010). doi: 10.1002/9780470640845.ch38
 14. A.L. Avşar, İ. Tatar and **C. Duran**, "Dynamical Modeling and Verification of Underwater Acoustic System," *Topics in Model Validation and Uncertainty Quantification*, Vol. 5 Conference Proceedings of the Society for Experimental Mechanics Series, pp 255-263, 2013
 15. C. Efe, H. Yilmaz, Y. K. Tur, and **C. Duran**, "Mechanical Property Characterization of Na_{1/2}Bi_{1/2}TiO₃-BaTiO₃ Ceramics" *International Journal of Chemical Engineering and Applications*, Vol. 5, No. 5, 2014.

7.4. Yazılan uluslararası kitaplar veya kitaplarda bölümler

7.5. Ulusal hakemli dergilerde yayınlanan makaleler

7.6. Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

1. C. Duran, S. Erođlu, “Sıvı faz sinterlemenin $\text{Cr}_3\text{C}_2/\text{NiCr}$ sermetlerinin özellikleri üzerine olan etkileri”, *I. Uluslararası Toz Metalurjisi Sempozyumu*, Gazi Üniversitesi, Ankara, p. 539 (1996).
2. C. Öztürk, C. Duran, Y.K. Tür and H. Yılmaz, “Mechanical properties of textured mullite/zirconia ceramics” pp. 313-318, *Proceedings of the VI. Ceramic Congress with International Participation*, Sakarya University, Sakarya, 2006
3. A. A. Gultekin, C. Duran and H. Yılmaz “Ceramic powder synthesis and phase evolution in the $(1-x)[(1-y)(\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3)-y(\text{Pb}(\text{Yb}_{1/2}\text{Nb}_{1/2})\text{O}_3)]-x\text{PbTiO}_3$ system” pp.266-271 *Proceedings of the VI. Ceramic Congress with International Participation*, 30 Oct.-1 Nov.2006, Sakarya University, Sakarya, 2006
4. Ali ÖZER, Yahya Kemal TÜR and Cihangir DURAN “Investigation of Sintering Behavior And Mechanical Properties of Cr_3C_2 -NiCr Cermets” *XVI. National Mechanics Congress*, 2009, Kayseri

7.7. Diğer yayınlar

7.8. Uluslararası atıflar

Goggle Scholar 1351, h-index=16, i-index=21

8. Ulusal & Uluslararası Projeler

9. Fabrication and characterization of novel ferroelectric materials with improved properties, Principal Investigator (2003-2005), State Planning Organization of Turkey (# 2003K120530) (€ 154,000)
10. Texture development and electrical properties of ferroelectric ceramics with tungsten bronze crystal structure, Principal Investigator (2003-2005), The Scientific and Technological Research Council of Turkey (# MİSAG 245) (€ 21,000)
11. Molten salt synthesis and characterization of single crystal, shape-anisotropic (e.g., acicular or platelet) ceramic particles, Principal Investigator (2002-2003), Gebze Institute of Technology-Scientific Research Projects (# 02-B-03-01-13) (€ 3,000)
12. Design of sonars and fabrication by gel casting method, Joint Principal Investigator, (2002-2004) The Scientific and Technological Research Council of Turkey (# 101M065) (€ 19,500)
13. Superhigh energy milling in the production of hard alloys, ceramic and composite materials-Proposal Acronym: ACTIVATION (# 505885-1), European Frame Program 6 (2004-2007) Joint Principal Investigator, (€ 65,600)
14. Investigation of the fracture behavior of the mullite/ ZrO_2 composites toughened by templated grain growth and martensitic transformation methods, Joint Principal Investigator, (2005-2009) The Scientific and Technological Research Council of Turkey (#MISAG104M22) (€ 78,500)
15. Fabrication of multilayer actuators from textured $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - PbTiO_3 single layers, Joint Principal Investigator, (2005-2007) The Scientific and Technological Research Council of Turkey (# MISAG104M189) (€ 36,300)
16. Designing, fabrication and characterization of underwater acoustic devices (Transducers/hydrophones), Principal Investigator (2007-2010), The Scientific and Technological Research Council of Turkey (# 107M333) (€ 128,000)
17. Mechanical activation, low temperature sintering and mechanical properties of ZrB_2 and ZrB_2 -based ceramics, Joint Principal Investigator (2009-2011) Bor Institute (BOREN) (€ 92,000).
18. Designing and fabrication of underwater acoustic devices using piezoelectric ceramics (Small and Medium Industry Development Organization project, 2007-2009), Principal Investigator (with MSE Teknoloji Ltd.) (€ 34,000)
19. Fabrication of nebulizers (cold water mist generator) using piezoelectric ceramics (The Scientific and Technological Research Council of Turkey-Industry Project # 7070243 (2008-2009), Principal Investigator, (with MSE Teknoloji Ltd.) (€ 32,000)
20. Si_3N_4 -based ceramic powder synthesis and characterization, The Scientific and Technological Research Council of Turkey-Industry Project # 7080428 (2008-2010), Principal Investigator, (with MSE Teknoloji Ltd.) (€ 28,000)
21. Deagglomeration of submicron and nanoparticles of ceramic materials and detonation diamond, Joint Principal Investigator (2010-2012), Joint Project between Turkey (Gebze Institute of Technology, Dumlupınar University) and Russia (Saint Petersburg University) (# 109M712) (€ 8,000)

22. Several confidential industrial projects related to underwater acoustics transducer and array designs given by Undersecretariat for Defence Industries of Turkey (2010-2013), Principal Investigator (with Meteksan Defence Industry Inc., Turkey) (> € 4 million)
23. Fabrication of underwater acoustic transducers using $Pb(Mg_{1/3}Nb_{2/3})O_3-Pb(Yb_{1/2}Nb_{1/2})O_3-PbTiO_3$ piezoceramics, Principal Investigator (2013-2015), Yıldırım Beyazıt University-Scientific Research Projects (# 664) (€ 11,000)
24. Establishment of the Materials Engineering Infrastructure, Principal Investigator (2014-2015), Yıldırım Beyazıt University-Scientific Research Projects (# 1674) (€ 13,000)
25. Establishment of the Materials Engineering Infrastructure, Principal Investigator (2015-2016), Yıldırım Beyazıt University-Scientific Research Projects (# 1965) (€ 40,000)
26. Fabrication and characterization of $BiScO_3-PbTiO_3$ based piezoceramics, Principal Investigator (2016-2017), Yıldırım Beyazıt University-Scientific Research Projects (# 2995) (€ 16,500)
27. Fabrication and characterization of wide area and thin cross section ceramics, Principal Investigator (2017-2018), Yıldırım Beyazıt University-Scientific Research Projects (# 3806) (€ 16,500)
28. Ceramic radome fabrication, Principal Investigator (2017-2018), Meteksan Defence Industry Inc., Turkey (€ 48,000)
29. Fabrication and characterization of organic-inorganic perovskite solar cells with low lead content, Joint Principal Investigator (Yıldırım Beyazıt University and Dumlupınar University) (2016-Cont.) The Scientific and Technological Research Council of Turkey (# 116F073) (€ 102,000)

30. İdari Görevler

Ankara Yıldırım Beyazıt Üniversitesi, Metalurji ve Malzeme Mühendisliği Bölüm Başkanı (6/2014 - 10/2015)

31. Bilimsel ve Mesleki Kuruluşlara Üyelikler

32. Ödüller

1. Scholarship from Higher Educational Council of Turkey towards a PhD degree in the USA (1996-2001).
2. Best poster in Particulate Materials Center Industry Advisory Board poster contest, Pennsylvania State University, USA (1999).
3. National Science Foundation (NSF) scholarship to attend Gordon Research Conference, New Hampshire, USA (2000).
4. IEEE scholarship to attend 12th IEEE International Symposium on the Applications of Ferroelectrics (ISAF), Hawaii, USA (2000).
5. 3rd place in American Ceramic Society Ceramographic Contest, 102nd American Ceramic Society Meeting, St. Louis, Missouri, USA, April 30-May 3 (2000).
6. Scholarship from Turkish Scientific and Technological research Council of Turkey to attend The 5th Asian Meeting on Electroceramics, Bangkok, Thailand, 2006
7. Gebze Institute of Technology, Research Promotion Award, 2009
8. Gebze Institute of Technology, Best M.Sc. Thesis Award with Erdem Akça, 2010
9. Scholarship from Higher Educational Council of Turkey for visiting scientist position at the NASA Glenn Research Center-Ceramics Branch, Cleveland, USA, June - September 2014.

33. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz.

| Akademik Yıl | Dönem | Dersin Adı | Haftalık Saati | | Öğrenci Sayısı |
|--------------|----------|------------|----------------|----------|----------------|
| | | | Teorik | Uygulama | |
| | Güz | | | | |
| | İlkbahar | | | | |
| | Gü | | | | |

| | | | | | |
|--|-----------------|--|--|--|--|
| | | | | | |
| | İlkbahar | | | | |
| | | | | | |

Not: Açılmışsa, yaz döneminde verilen dersler de tabloya ilave edilecektir.

Lisans ve Lisansüstü verilen dersler aşağıda listelenmiştir. Bu dersler İngilizce olarak verilmektedir.

MCE201 Materials Science (for Mechanical Engineering Department)

MSE311 Materials Characterization Techniques

ENGR214 Materials for Engineers (for Electrical and Electronic Engineering Department)

MSE304 Processing of Materials II

MSE302 Materials Processing Lab II

MSE517 Sintering Theory

MSE530 Advanced Ceramic Processing

MSE537 Advanced Materials Characterization Techniques