

# Prof. Dr. Sedat ALKOY

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## EĞİTİM

01/1995 – 12/1999 Ph.D. Malzeme Bilimi ve Mühendisliği, The Pennsylvania State University, USA  
01/1994 – 12/1994 Öğrenci Malzeme Mühendisliği, Drexel University, USA  
08/1992 – 08/1994 M.Sc. Malzeme Bilimi, İstanbul Teknik Üniversitesi  
08/1988 – 06/1992 B.Sc. Metalurji Mühendisliği, İstanbul Teknik Üniversitesi

## İŞ VE ARAŞTIRMA TECRÜBESİ

03/2012 –	Prof. Dr.	Gebze Teknik Üniversitesi (GTU)
05/2012 –	Teknik Müdür	ENS Piezoaygıtlar Ltd. Şti.
12/2016 – 01/2019	Bölüm Başkanı	GTU – Malzeme Bilimi ve Mühendisliği
11/2006 – 02/2012	Doç. Dr.	Gebze Yüksek Teknoloji Enstitüsü
11/2004 – 10/2004	JSPS Fellow	Nara Institute of Sci. & Tech., Japan
07/2004 – 11/2004	Misafir Bilim Adamı	The University of Manchester, UK
06/2000 – 11/2006	Yrd. Doç. Dr.	Gebze Yüksek Teknoloji Enstitüsü
01/2002 – 12/2003	Yarı Zamanlı Öğr. Üyesi	İstanbul Teknik Üniversitesi
01/1995 – 03/2000	Araştırmacı	The Pennsylvania State University, USA
08/1993 – 05/2000	Araş. Gör.	Gebze Yüksek Teknoloji Enstitüsü

## İLGİ ALANLARI

- Akıllı malzemeler ve sistemler,
- Sualtı sonar ve biyomedikal ultrason uygulamalarına dönük piezoelektrik dönüştürücülerin (transducer) tasarlanması, geliştirilmesi, üretimi, karakterizasyonu ve sonlu elemanlar analiz yöntemleriyle modellenmesi,
- Ferroelektrik malzemelerin yorulma ve doğrusal olmayan (non-linear) elektriksel özelliklerinin incelenmesi,
- Dielektrik malzemelerin elektriksel özelliklerinin karakterizasyonu,
- Uçucu olmayan ferroelektrik hafıza uygulamaları için ferroelektrik ince filmlerin kimyasal çözelti depolama (sol-jel) ve magnetron sıçratma yöntemleriyle üretimi ve incelenmesi,

## ARAŞTIRMA PROJELERİ

### Proje Yürütücüsü

- Sualtı Sentetik Açıklıklı Sonar Görüntüleme Yeteneği Kazandırılması (SAS) Projesi, Sensör Piezoelektrik Seramik Tedariği Ana Alt Yüklenicisi, *Savunma Sanayi Başkanlığı ArGe Projesi – Alt Yüklenici (2024-2025)*.
- Yenilenebilir Enerji Kaynaklarının Güvenliği ve Sürdürülebilirliği için Modüler Tip Termal Depolama Tesisi Geliştirilmesi (TEDEP), *TEYDEB Sanayi ArGe Projesi, # 152117 (2024-2025)*.
- Hegzagonal Bor Nitrid ve Piezoelektrik Seramik Partikül Takviyeli 0-3 Piezokompozitlerin Üretimi ve Esnek Algılayıcı / Enerji Hasatlayıcı Aygıtların Geliştirilmesi, *TEYDEB KOBİ ArGe Projesi, # 7230784 (2024-2025)*.
- Sualtı Sonar Uygulamaları için Dokulu Piezoelektrik Seramiklerin ve Dokulu 1-3 Piezokompozitlerin Geliştirilmesi (DOKU), *TEYDEB Sanayi ArGe Projesi, #3231273 (2024-2025)*.

5. Sualtı Sonar Uygulamaları için Geniş Frekans Bant Aralığında Çalışan, Çoklu Titreşim Moduna Sahip Su Altı Dönüştürücülerinin Geliştirilmesi, *KOSGEB Ar-Ge, Ür-Ge, İnovasyon Projesi* (2022-2024).
6. Özgün Kule Tipi Konsantre Isıl Depolamalı Güneş Enerjisi Sistemi Geliştirilmesi Projesi (GÜNERDEP), *TÜBİTAK - Çağrılı 1501 Sanayi Ar-Ge Projeleri Destekleme Programı Projesi* (2022-2023).
7. Küresel Piezoelektrik Seramik Transdüserlerin Seri Üretimi, *KOSGEB Endüstriyel Uygulama Destek Projesi*, (2018-2020).
8. Deniz Kabuğu Formunda Yeni Nesil Esnek Gerilmeli Piezoelektrik Dönüştürücü Tasarımı, Geliştirilmesi, Karakterizasyonu ve Uygulamaları, *TÜBİTAK 1001 Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı Projesi*, # **116M216**, Bütçe: 596.250 TL (2017–2020).
9. Sualtı Sonar Uygulamaları İçin Orta Frekanslarda (5-100 kHz) Piezoelektrik Dönüştürücülerin Tasarlanması ve Geliştirilmesi, *KOSGEB Ar-Ge İnovasyon Programı Projesi*, Bütçe: 250.000 TL (2016-2018)
10. Kristalografik Dokuya Sahip Üstün Özellikli Piezoseramiklerin Ultrasonik Motor Uygulamaları, *TÜBİTAK 1005 Ulusal Yeni Fikirler ve Ürünler Araştırma Destek Programı Projesi*, # **114M518**, Bütçe: 179.659 TL (15/11/2014 - 15/05/2016).
11. Küresel Piezoelektrik Seramik Transdüserlerin Geliştirilmesi, *KOSGEB Ar-Ge İnovasyon Programı Projesi*, Bütçe: 250.000 TL (2012-2015)
12. Kurşun İçermeyen Piezoelektrik Seramiklerin, Fiberlerin ve Şeritlerin Kristalografik Dokuya Sahip Olarak Üretilmesi ve Aygıt Uygulamaları, *TÜBİTAK 1001 Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı Projesi*, # **110M627**, Bütçe: 298.810 TL (15/04/2011 - 15/04/2014).
13. Sodyum bizmut titanat esaslı piezoelektrik seramiklerin elde edilmesi, yapısal ve elektriksel özelliklerinin incelenmesi, *GYTE BAP Projesi*, # **2009-A-19**, Bütçe: 6.500 TL (2009-2010).
14. Piezoelektrik Seramik Fiberlerin Alginate Jelleşmesi ve Sol-Gel Yöntemleriyle Sentezlenmesi ve Piezoseramik Fiber – Polimer Matrisli Piezokompozitlerin Geliştirilmesi, *TÜBİTAK 1001 Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı Projesi*, # **107M092**, Bütçe: 178.700 TL (01/09/2007 - 01/03/2010).
15. An Investigation of Mechanisms of Fatigue in Ferroelectric Thin Films, and Design and Fabrication of Piezoelectric Devices from Ferroelectric Single Crystals, *Japan Society for the Promotion of Science – JSPS (Japonya)*, Bütçe: 2.000,000 JPY (2004-2006).
16. Piezoelektrik İnce Filmlerin Sıçratma ve Çözelti Jelleştirme Yöntemleri ile Geliştirilmesi ve Karakterizasyonu, *DPT İleri Araştırma Projesi*, # **2002K120280**, Bütçe:107.000 TL (2002-2004).
17. Piezoseramik Esaslı Kompozit Sonarların Tasarımı ve Asıltı Döküm Yöntemiyle Geliştirilmesi, *TÜBİTAK 1001 Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı Projesi*, # **101M065**, Bütçe: 27.864 TL (2002-2004).
18. Jel Döküm Yöntemiyle Piezoelektrik Seramik Dönüştürücülerin Üretimi ve Karakterizasyonu, *GYTE Araştırma Fonu Projesi*, # **00-B03-01-11**, Bütçe: 8.000 TL (2000-2001).

#### ***Araştırmacı/Danışman***

1. Investigation of the Effect of Crystallographic Anisotropy and Defects on the Electrocaloric Response of Stress-free Relaxor Ferroelectric Plates by Experimental and Analytical Techniques, **Researcher**, *US Air Force Office of Scientific Research*, Grant#:12537120, 2018 – 2022.
2. Düşük Sıcaklıkta Sinterlenen Piezoelektrik Seramiklerden İçi Boş Fiberlerin Üretimi, Aygıtların Tasarlanması ve Uygulamaları, *TÜBİTAK Bilim ve Teknolojide Avrupa İşbirliği (COST) Programı Projesi*, # **112M791**, Bütçe: 195.200 TL, Araştırmacı (2013-2016).
3. Dokulu Kurşunsuz Piezoelektrik Seramiklerin Üretimi ve Piezoelektrik Aygıt Uygulamaları, *T.C. Bilim, Sanayi ve Teknoloji Bakanlığı Tekno Girişim Sermayesi Desteği Programı Projesi*, # **0119.TGSD.2012**, Bütçe: 100.000 TL, Araştırmacı (2012-2013).
4. Adaptif Optik Sistemler İçin Piezo Uyarıcı (Aktüatör) Geliştirilmesi, *T.C. Bilim, Sanayi ve Teknoloji Bakanlığı Sanayi Tezleri Programı (SAN-TEZ)*, # **1436.STZ.2012-1**, Araştırmacı (2012-2014)

5. Çoklu Ferroik İnce Filmlerin Üretimi ve Elektriksel Özelliklerinin Belirlenmesi, *TÜBİTAK 1001 Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı Projesi*, # **109M686**, Bütçe: 235.882 TL, Danışman (2010-2012)
6. Su altı akustik cihazların (Transducer/Hidrofon) tasarlanması, üretilmesi ve karakterizasyonu, *TÜBİTAK 1001 Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı Projesi*, # **107M333**, Bütçe: 239.920 TL, Araştırmacı (2007-2010)
7. Kemiğe Benzer” Apatit Mineral Tabakasının Titanyum Yüzeyine Tutunma Mukavemetinin İncelenmesi, *TÜBİTAK 1001 Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı Projesi*, # **107M374**, Bütçe: 115.000 TL, Araştırmacı (2007-2009)
8. Yüksek Performansa Sahip Yeni Ferroelektrik Malzemelerin Üretimi, Karakterizasyonu, *DPT İleri Araştırma Projesi*, # **2003K120530**, Bütçe: 275.000 TL, Araştırmacı (2003-2005).
9. Tungsten Bronz Kristal Yapısına Sahip Ferroelektrik Seramiklerde Şablon Parçacık Kullanarak Doku Oluşturulması ve Elektriksel Özelliklerin İncelenmesi, *TÜBİTAK 1001 Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı Projesi*, # **MİSAG 245**, Bütçe: 38.760 TL, Araştırmacı (2003-2005).
10. Ceramic Hollow Spheres Sensors, *American Chemical Society - Petroleum Research Fund (ABD)*, Bütçe: 66.500 USD, Araştırmacı (1999-2001)
11. PZT Hollow Sphere Transducers, *Office of Naval Research - ONR (ABD)*, Bütçe: 150.000 USD, Araştırmacı (1998-2001)

## YAYINLAR

### Patentler & Patent Başvuruları

1. S. Alkoy, “Ekstrüzyon ve Taşıyıcı Bir Polimerin Jelleştirilmesi Yoluyla Kristalografik Dokuya Sahip Seramiklerin, Seramik Fiber ve İnce Şeritlerin Üretilmesi”, *Türk Patent Enstitüsü*, Patent # 2010/10140B verilmiş tarihi 23/10/2017.
2. S. Alkoy, “Seramik ve Refrakter Metal Tozlarının Taşıyıcı Bir Polimerin Jelleştirilmesi Yöntemiyle Fiber ve İnce Cıdarlı Kabuk Formunda Şekillendirilmesi”, *Türk Patent Enstitüsü*, Başvuru # 2009/07189, 18 Eylül (2009)
3. Newnham, R.E., J.K. Cochran and S. Alkoy, “Hollow Sphere Transducers”, *U.S. Patent* #6,215,231 B1, issued on April 10, 2001.

### SCI-Expanded Kapsamındaki Uluslararası Hakemli Dergilerde Yayınlanan Makaleler

1. A. Ksouri, A. Meklid, N. Rhimi, S. Alkoy, N.K. Gözüaçık, M. Yazici, S. Bouzidi, “High-performance PSZT-PSMI-PSZS ceramics: Piezoelectric and ferroelectric insights for advanced applications”, *Journal of Physics and Chemistry of Solids*, 196, 112338 (2025).  
<https://doi.org/10.1016/j.jpcs.2024.112338>
2. N.K. Gözüaçık, S. Alkoy, “Origin of the ultrahigh field-induced strain in the Gd-doped  $0.854\text{Bi}_{0.5}\text{Na}_{0.5}\text{TiO}_3-0.12\text{Bi}_{0.5}\text{K}_{0.5}\text{TiO}_3-0.026\text{BaTiO}_3$  ternary ceramic system”, *Japanese Journal of Applied Physics*, 63, 09SP13 (2024).  
<https://doi.org/10.35848/1347-4065/ad7147>
3. M. Buldu-Akturk, N.K. Gözüaçık, M.H. Aleinawi, A.M. Rostas, S. Alkoy, E. Mensur, “Elucidating Capacitive Behavior of Gd-doped BNT-BKT-BT Electrodes in All-in-One Supercapacitor Devices”, *Physica Scripta*, 98 (10) 105933 (2023).  
<https://doi.org/10.1088/1402-4896/acf73e>
4. E. Yalcin, N.K. Gözüaçık, S. Alkoy, H.A. Sarı, M.Y. Kaya, Ç. Öncel and E. Menşur, “Characterization of 1-3 Piezocomposites from PNN-PZT Piezoceramics”, *Sensors and Actuators: A. Physical*, 357, 114389 (2023)  
<https://doi.org/10.1016/j.sna.2023.114389>
5. M.Y. Kaya, S. Alkoy, “Design, Modeling and Fabrication of a Novel Class V Flexensional Transducer: The Sea-Shell”, *IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control*, 70 (1) 64-71 (2023).  
<https://doi.org/10.1109/TUFFC.2022.3224076>
6. N.K. Gözüaçık, M.Ç. Bayır, B. Okatan, I.B. Mısırlıoğlu, S. Alkoy, E. Menşur-Alkoy, “Enhancement of the electrocaloric effect in  $\text{PbZr}_{0.7}\text{Ti}_{0.3}\text{O}_3$  ceramics via La doping: Driven by phase co-existence or defect effects?”, *Acta Materialia*, 225, 117559 (2022).  
<https://doi.org/10.1016/j.actamat.2021.117559>
7. M. Boz, M.Y. Kaya, Ö. Özdemir, S. Alkoy, “Design, Finite Element Analysis, Fabrication and Electroacoustic Characterization of Transducer Arrays from Piezoceramics with Hollow Cylindrical Shell Form”, *Ferroelectrics*, 586 (1) 93-101 (2022).  
<https://doi.org/10.1080/00150193.2021.2014262>
8. M.N. Çiftçi, B. Değirmenci, İ. Böbrek, S. Alkoy, A. Aykaç, M. Boz, A. Berksoy-Yavuz, E. Yalçın, N.K. Gözüaçık, E. Menşur, “Design, Development and Characterization of a Mid-Frequency (35 kHz) Tonpils Transducer Array from 0.675PMN-0.325PT Piezoceramics”, *Journal of Metals, Materials and Minerals* 32 (1) 144-149 (2022).  
<https://doi.org/10.55713/jmmm.v32i1.1249>
9. I. Bobrek, A. Berksoy-Yavuz, M.Y. Kaya, S. Alkoy, M.B. Okatan, I.B. Misirlioglu, E. Mensur-Alkoy, “Temperature Dependent Electrical and Electrocaloric Properties of Textured 0.72PMN - 0.28PT Ceramics”, *Integrated Ferroelectrics*, 223 (1), 214 – 227 (2021).  
<https://doi.org/10.1080/10584587.2021.1964300>
10. H.A. Sarı, N.K. Gözüaçık, M.Y. Kaya, E. Menşur, S. Alkoy, “Lead-based Antiferroelectrics Revisited for High Energy Density Capacitors and Large Strain Actuators”, *Ferroelectrics*, 586 (1) 21-40 (2021).

<https://doi.org/10.1080/00150193.2021.2014258>

11. E. Yalcin, M. Ankut, S.M. Sungur, H.I. Turgut, K.S. Kar, S. Alkoy, A. Aykac, M. Boz, E. Aydin, N.K. Gozuacik, E. Menşur, “Comparison of The Performance Characteristics of the Tonpilz Transducers Fabricated from 0.60PMN-0.40PT & PZT Piezoceramics”, *Ferroelectrics*, **586** (1) 82-92 (2021).  
<https://doi.org/10.1080/00150193.2021.2014261>
12. N.K. Gozuacik, M.C. Bayir, E.Mensur-Alkoy and S. Alkoy, “Origin of the Large Field Induced Strain and Enhanced Energy Storage Response of Rare-Earth Doped Lead-Free 0.854BNT–0.12BKT–0.026BT Ceramics”, *IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control*, **68** (7) , 2576 - 2584 (2021).  
<https://doi.org/10.1109/TUFFC.2021.3063146>
13. A. Berksoy-Yavuz, E. Mensur-Alkoy, E. Erdem, S. Alkoy, “Electrical properties, EPR analyses and defect chemistry of Mn-doped 0.675 PMN-0.325 PT piezoceramics”, *Ceramics International*, **46** (18), 28980-28986 (2020).  
<https://doi.org/10.1016/j.ceramint.2020.08.069>
14. E. Mensur-Alkoy, M.B. Okatan, E. Aydın, Y. Kılıç, I.B. Mısırlıoğlu, S. Alkoy, “Effect of Texture on the Electrical and Electrocaloric Properties of 0.90Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>-0.10PbTiO<sub>3</sub> Relaxor Ceramics”, *Journal of Applied Physics*, **128** (8), 084102 (2020).  
<https://doi.org/10.1063/5.0003296>
15. A. Berksoy-Yavuz, U. Savacı, S. Turan, S. Alkoy and E. Mensur-Alkoy, “Structural Features and Energy Harvester Device Applications of Textured 0.675 PMN - 0.325 PT Piezoceramics”, *Journal of Materials Science: Materials in Electronics*, **31**, 9650–9659 (2020).  
<https://doi.org/10.1007/s10854-020-03510-8>
16. E. Mensur-Alkoy, M.Y. Kaya, H.A. Sari, O. Pekel, R. Olukkent, Y.K. Tur, T. Sebastian, F.J. Clemens, S. Alkoy, “Mechanical and electromechanical properties of piezoelectric ceramic fibers drawn by the alginate gelation method”, *International Journal of Applied Ceramic Technology*, **17** (3) 1371–1381 (2020).  
<https://doi.org/10.1111/ijac.13405>
17. Ö. Çakmak, E. Mensur-Alkoy, G. Toprak, Ö. Tuna & S. Alkoy, “Investigation of the electrical properties of textured 0.5[Ba(Zr<sub>0.2</sub>Ti<sub>0.8</sub>)]O<sub>3</sub>–0.5[(Ba<sub>0.7</sub>Ca<sub>0.3</sub>)TiO<sub>3</sub>] piezoceramics”, *Journal of Materials Science: Materials in Electronics*, **31** (5), 4184–4192 (2020).  
<https://doi.org/10.1007/s10854-020-02971-1>
18. S. Dursun, E. Mensur-Alkoy, M.U. Unver and S. Alkoy “Enhancement of electrical properties in the ternary PMN-PT-PZ through compositional variation, crystallographic texture, and quenching”, *Journal of the American Ceramic Society*, **103** (4) 2499-2508 (2020).  
<https://doi.org/10.1111/jace.16919>
19. A. Berksoy-Yavuz, E. Mensur-Alkoy, E. Gozutok, S. Dursun, H. Yilmaz, S. Alkoy, “Structural and electrical properties of <001> textured 0.26PIN–0.40PMN–0.34PT ternary system”, *Journal of Materials Science: Materials in Electronics*, **30** (20), 18548–18556 (2019).  
<http://doi.org/10.1007/s10854-019-02208-w>
20. N.K. Gözüaçık, E. Mensur-Alkoy, S. Alkoy, “Effects of lanthanum doping on electrical and electromechanical properties of (Pb<sub>1-x</sub>La<sub>x</sub>)(Zr<sub>0.70</sub>Ti<sub>0.30</sub>)O<sub>3</sub> ceramics”, *Journal of Materials Science: Materials in Electronics*, **30** (15), 14045–14052 (2019).  
<http://doi.org/10.1007/s10854-019-01769-0>
21. M.Y. Kaya, E. Mensur-Alkoy, Aysel Gurbuz, Mehmet Oner, Sedat Alkoy, "Influence of Compositional Variation on the Electrical Properties of [Pb(Zn<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>]-[Pb(Zr,Ti)O<sub>3</sub>] Ceramics and Their Transducer Application", *IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control*, **65** (7) , 1268 – 1277(2018).  
<http://dx.doi.org/10.1109/TUFFC.2018.2829800>

22. S. Dursun, E. Mensur-Alkoy, A.S. Sabuncu, A. Berksoy-Yavuz, M.A. Gülgün and S. Alkoy, “Growth of NBT template particles through topochemical microcrystal conversion and their structural characterization” *Journal of the American Ceramic Society*, **100** (3), 937–944 (2017).  
<http://dx.doi.org/10.1111/jace.14653>
23. E. Mensur-Alkoy, M.Y. Kaya, D. Avdan and S. Alkoy, “Properties of PZN-PZT Ceramics with Low Sintering Temperature and Their 1-3 Piezocomposites” *IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control*, **63** (6) 907-914 (2016).  
<http://dx.doi.org/10.1109/TUFFC.2016.2554319>
24. A. Mahmood, E. Mensur-Alkoy, A. Naeem, Y. Iqbal, A. Ullah, S. Alkoy, “Effect of La substitution on the microstructure and dielectric properties of the sol–gel derived BaZr<sub>0.2</sub>Ti<sub>0.8</sub>O<sub>3</sub> thin films” *Thin Solid Films* 611, 68–73, (2016).  
<http://dx.doi.org/10.1016/j.tsf.2016.05.008>
25. S. Dursun, E. Mensur-Alkoy and S. Alkoy, “Fabrication of Textured Lead-free Strontium Barium Niobate (SBN61) Bulk Ceramics and Their Electrical Properties” *Journal of the European Ceramic Society* **36** (10) 2479–2487 (2016).  
<http://dx.doi.org/10.1016/j.jeurceramsoc.2016.03.014>
26. A. Mahmood, A. Naeem, M.Y. Kaya, M. Yasin, E. Mensur-Alkoy and S. Alkoy, “Effect of Co/Mg ratio on the phase, microstructure, dielectric and impedance properties of lead zirconate titanate”, *Journal of Materials Science – Materials in Electronics*, **26** (12) 10123-10131 (2015).  
<http://dx.doi.org/10.1007/s10854-015-3697-5>
27. E. Mensur-Alkoy, A. Berksoy-Yavuz and S. Alkoy, “Processing and Properties of Textured Potassium Sodium Niobate [K,Na]NbO<sub>3</sub> Ceramic Ribbons by Alginate Gelation Method”, *Journal of the American Ceramic Society*, **97** (11) 3425-3433 (2014).  
<http://dx.doi.org/10.1111/jace.13139>
28. Y. Özeren, E. Mensur-Alkoy and S. Alkoy, “Sodium niobate particles with controlled morphology synthesized by hydrothermal method and their use as templates in KNN fibers, *Advanced Powder Technology*, **25** (6) 1825-1833 (2014).  
<http://dx.doi.org/10.1016/j.appt.2014.07.012>
29. S. Alkoy, S. Dursun, “Processing and Properties of Textured Potassium Strontium Niobate (KSr<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub>) Ceramic Fibers – Effect of Texture on the Electrical Properties”, *IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control*, **60** (10) 2044-2052 (2013).  
<http://dx.doi.org/10.1109/TUFFC.2013.2795>
30. S. Alkoy, E. Mensur-Alkoy, A. Berksoy-Yavuz, S. Dursun, R. Olukkent, Y. Özeren, “Macro and Microstructural Engineering of Piezoelectric Ceramics” *Ferroelectrics*, 453 (1), 8-19 (2013).  
<http://dx.doi.org/10.1080/00150193.2013.842070>
31. E. Mensur-Alkoy, A. Berksoy-Yavuz and S. Alkoy, “Electrical Properties and Impedance Spectroscopy of Lithium Modified Potassium Sodium Niobate Ceramics”, *Ferroelectrics*, 447 (1) 95-107 (2013).  
<http://dx.doi.org/10.1080/00150193.2013.821914>
32. S. Dursun, R. Topkaya, N. Akdoğan, S. Alkoy, “Comparison of the structural and magnetic properties of submicron barium hexaferrite powders prepared by molten salt and solid state calcination routes”, *Ceramics International*, **38** (5) 3801-3806 (2012).  
<http://dx.doi.org/10.1016/j.ceramint.2012.01.028>
33. S. Alkoy & S. Dursun, “Processing and Properties of Textured Potassium Strontium Niobate (KSr<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub>) Ceramic Fibers – Texture Development”, *Journal of the American Ceramic Society*, **95** (3) 937-945 (2012).  
<http://dx.doi.org/10.1111/j.1551-2916.2011.04994.x>
34. E. Mensur Alkoy, S. Alkoy and T. Shiosaki, “The Effect of Substrate and Processing Conditions on the Properties of Sol-gel Derived Pb(Zr,Ti)O<sub>3</sub> Thin Films”, *International Journal of Surface Science and Engineering* , **6** (1/2) 24-34 (2012).

<http://dx.doi.org/10.1504/IJSURFSE.2012.046839>

35. S. Alkoy, A.S. Tekdaş, E. Tekel and R. Olukkent, "Drawing of Piezoceramic Fibers and Ribbons using a Novel Alginate Gelation Method and Properties of Fiber and Ribbon-based Piezodevices", *Advanced Materials Research*, **445** pp. 380-385 (2012).  
<http://dx.doi.org/10.4028/www.scientific.net/AMR.445.380>
36. S. Dursun and S. Alkoy, "Processing, Structural and Electrical Properties of Textured Potassium Strontium Niobate (KSr<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub>) Piezoceramic Fibers", *Advanced Materials Research*, **445** pp. 481-486 (2012).  
<http://dx.doi.org/10.4028/www.scientific.net/AMR.445.481>
37. S. Dursun & S. Alkoy, "Electrical Properties of 1-3 Piezocomposites Prepared from Textured KSr<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub> (KSN) Ceramic Fibers" *Ferroelectrics*, **420** (1) 12-18 (2011).  
<http://dx.doi.org/10.1080/00150193.2011.594770>
38. D. Teker, C.P. Sağ, M. Dinçer, S. Alkoy and K. Öztürk, "Effect of the Hydrothermal Heat Treatment Conditions of Titanium Substrates on the Bio-Mimetically Grown "Bone-Like" Apatite Coatings", *Advances in Science and Technology*, **63** 402-407 (2010).  
<http://dx.doi.org/10.4028/www.scientific.net/AST.63.402>
39. S. Alkoy, R.J. Meyer, W.J. Hughes, J.K. Cochran, R.E. Newnham, "Design, performance and modeling of piezoceramic hollow-sphere microprobe hydrophones", *Measurement Science & Technology*, **20** (9) #095204 (2009).  
<http://dx.doi.org/10.1088/0957-0233/20/9/095204>
40. S. Alkoy, C. Duran, D.A. Hall, "Electrical properties of textured potassium strontium niobate (KSr<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub>) ceramics fabricated by reactive templated grain growth", *Journal of the American Ceramic Society*, **91** (5) 1597-1602 (2008).  
<http://dx.doi.org/10.1111/j.1551-2916.2008.02342.x>
41. S. Alkoy, "Fabrication and Properties of Thin-Shell Monolithic Piezoelectric Ceramic Transducers", *Journal of Materials Science*, **42** (16) 6742-6748 (2007).  
<http://dx.doi.org/10.1007/s10853-006-1477-6>
42. E. Mensur Alkoy, S. Alkoy and T. Shiosaki, "The Effect of Crystallographic Orientation and Solution Aging on the Electrical Properties of Sol-Gel Derived Pb(Zr<sub>0.45</sub>Ti<sub>0.55</sub>)O<sub>3</sub> Thin Films" *Ceramics International*, **33** (8) 1455-1462 (2007).  
<http://dx.doi.org/10.1016/j.ceramint.2006.06.010>
43. S. Alkoy, H. Yanik, B. Yapar, "Fabrication of lead zirconate titanate ceramic fibers by gelation of sodium alginate" *Ceramics International*, **33** (3) 389-394 (2007).  
<http://dx.doi.org/10.1016/j.ceramint.2005.09.021>
44. S. Alkoy, E. Mensur Alkoy, K. Uchiyama, T. Shiosaki, "Fatigue Behaviour of Pb(Zr,Ti)O<sub>3</sub>/PbZrO<sub>3</sub> Multilayer Ferroelectric Thin Films", *Japanese Journal of Applied Physics*, **45** (9B) 7275-7278 (2006).  
<http://dx.doi.org/10.1143/JJAP.45.7275>
45. E. Mensur Alkoy, S. Alkoy, K. Uchiyama, T. Shiosaki, "Increased fatigue endurance in Pb(Zr,Ti)O<sub>3</sub> thin films through use of PbZrO<sub>3</sub> buffer layers", *Japanese Journal of Applied Physics*, **45** (6A) 5110-5116 (2006).  
<http://dx.doi.org/10.1143/JJAP.45.5110>
46. E. Mensur Alkoy, S. Alkoy, K. Uchiyama, T. Shiosaki, "Improving fatigue resistance of Pb(Zr,Ti)O<sub>3</sub> thin films by using PbZrO<sub>3</sub> buffer layers", *Journal of Applied Physics*, **99** (10) #106106 (2006).  
<http://dx.doi.org/10.1063/1.2195116>
47. E. Mensur Alkoy, S. Alkoy, T. Shiosaki, "Investigation of the electrical properties of [111] oriented PbZrO<sub>3</sub> thin films obtained by sol-gel process", *Japanese Journal of Applied Physics*, **45** (5A) 4137-4142 (2006).  
<http://dx.doi.org/10.1143/JJAP.45.4137>

48. S. Alkoy, "Analysis of Thin-Shell Piezoelectric Ceramics with Engineered Resonance Characteristics and Vibration Modes", *Japanese Journal of Applied Physics - Part 2*, **45** (8-11) L272-L274 (2006).  
<http://dx.doi.org/10.1143/JJAP.45.L272>
49. E. Mensur Alkoy, S. Alkoy, T. Shiosaki, "Microstructure and crystallographic orientation dependence of electrical properties in lead zirconate thin films prepared by sol-gel process", *Japanese Journal of Applied Physics*, **44** (12) 8606-8612 (2005).  
<http://dx.doi.org/10.1143/JJAP.44.8606>
50. E. Mensur Alkoy, S. Alkoy, T. Shiosaki, "Effects of Ce, Cr and Er doping and annealing conditions on the microstructural features and electrical properties of PbZrO<sub>3</sub> thin films prepared by sol-gel process", *Japanese Journal of Applied Physics*, **44** (9A) 6654-6660 (2005).  
<http://dx.doi.org/10.1143/JJAP.44.6654>
51. K. Yurdal, C. Duran, S. Alkoy, H.I. Bakan, "Texture development in KSr<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub> ceramics fabricated by reactive templated grain growth", *Key Engineering Materials*, **264-268** pp. 1285-1288 (2004).  
<http://dx.doi.org/10.4028/www.scientific.net/KEM.264-268.1285>
52. D. Abanoz, H. Yanik, A. Capoglu, S. Alkoy, "Gelcasting of Pb(Zr,Ti)O<sub>3</sub> based piezoelectric ceramics", *Key Engineering Materials*, **264-268** pp. 1293-1296 (2004).  
<http://dx.doi.org/10.4028/www.scientific.net/0-87849-946-6/1293/>
53. S.A. Yesilcubuk, S. Alkoy, O. Addemir, K. Sesen, A. Oral, "Preparation and characterization of Cu<sub>x</sub>O/Cu thin films by reactive d.c. magnetron sputtering", *Key Engineering Materials*, **264-268** pp. 569-572 (2004).  
<http://dx.doi.org/10.4028/www.scientific.net/0-87849-946-6/569>
54. T. Tavsanoğlu, O. Addemir, E. Basaran, S. Alkoy, "Processing and characterization of functionally graded Ti/Ti<sub>x</sub>C<sub>y</sub>/DLC thin film coatings", *Key Engineering Materials*, **264-268** pp. 593-596 (2004).  
<http://dx.doi.org/10.4028/www.scientific.net/KEM.264-268.593>
55. R.E. Newnham, W.J. Hughes, D.C. Markley, R.J. Meyer, S. Alkoy, A.C. Hladky-Hennion, J.D. Zhang, "Cymbal and BB flat panel and conformal sonar arrays", *Sea Technology*, **43** (11) 29-38 (2002).
56. R.E. Newnham, J. Zhang, S. Alkoy, R. Meyer, W.J. Hughes, A.C. Hladky-Hennion, J. Cochran, D. Markley, "Cymbal and BB underwater transducers and arrays", *Materials Research Innovations*, **6** (3) 89-91 (2002).  
<http://dx.doi.org/10.1007/s10019-002-0187-1>
57. R.E. Newnham, J.D. Zhang, R.J. Meyer, S. Alkoy, J. Cochran, D.C. Markley, "Processing of miniature hollow sphere transducers", *Integrated Ferroelectrics*, **42** 235-243 (2002).  
<http://dx.doi.org/10.1080/10584580210859>
58. R.J. Meyer, R. Newnham, S. Alkoy, T. Ritter, J. Cochran, "Pre-focused lead titanate > 25 MHz single-element transducers from hollow spheres", *IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control*, **48** (2) 488-493 (2001).  
<http://dx.doi.org/10.1109/58.911731>
59. J.F. Tressler, S. Alkoy, A. Dogan, R.E. Newnham, "Functional composites for sensors, actuators and transducers", *Composites Part A – Applied Science & Manufacturing*, **30** (4) 477-482 (1999).  
[http://dx.doi.org/10.1016/S1359-835X\(98\)00137-7](http://dx.doi.org/10.1016/S1359-835X(98)00137-7)
60. S. Alkoy, A.C. Hladky, A. Dogan, J.K. Cochran, R.E. Newnham, "Piezoelectric hollow spheres for microprobe hydrophones", *Ferroelectrics*, **226** (1-4) 11-25 (1999).  
<http://dx.doi.org/10.1080/00150199908230286>
61. J.F. Tressler, S. Alkoy, R.E. Newnham, "Piezoelectric sensors and sensor materials", *Journal of Electroceramics*, **2**, (4), 257-272 (1998).  
<http://dx.doi.org/10.1023/A:1009926623551>



62. S. Alkoy, A. Dogan, A.C. Hlakdy, P. Langlet, J.K. Cochran, R.E. Newnham, "Miniature piezoelectric hollow sphere transducers (BBs)", *IEEE Transactions on Ultrasonics, Ferroelectrics and Frequency Control*, **44** (5) 1067-1076 (1997).  
<http://dx.doi.org/10.1109/58.655632>
63. S. Alkoy, C. Toy, T. Gonul, A. Tekin "Crystallization behavior and characterization of turbostratic boron nitride", *Journal of the European Ceramic Society*, **17** (12) 1415-1422 (1997).  
[http://dx.doi.org/10.1016/S0955-2219\(97\)00040-X](http://dx.doi.org/10.1016/S0955-2219(97)00040-X)

**YAYINLARA ALINAN ATIF: 1200+ (h-index=15)**

***SCI-Expanded Kapsamındaki Bildiri Kitaplarında ve Kitap Serilerinde Yayınlanan Makaleler***

64. N. K. Gozuacik, E. Mensur-Alkoy and S. Alkoy, "Effects of Rare Earth Doping on the Electrical and Electromechanical Properties of Lead-Free  $\text{Bi}_{0.487}\text{Na}_{0.427}\text{K}_{0.060}\text{Ba}_{0.026}\text{TiO}_3$  Ceramics," 2019 IEEE International Symposium on Applications of Ferroelectrics (ISAF), Lausanne, Switzerland, 2019, pp. 1-4.  
<http://dx.doi.org/10.1109/ISAF43169.2019.9034931>
65. E. Mensur-Alkoy, M.Y. Kaya, D. Avdan, M.U. Ünver, S. Alkoy, "Fabrication of Piezoelectric Ceramic Hollow Fibers with Low Sintering Temperature and Their Characterization", *Proc. 2014 Joint IEEE International Symposium on the Applications of Ferroelectric, International Workshop on Acoustic Transduction Materials and Devices & Workshop on Piezoresponse Force Microscopy (ISAF/IWATMD/PFM)*, pp. 150-153, State College, PA, USA, May 12-16 (2014).  
<http://dx.doi.org/10.1109/ISAF.2014.6922995>
66. E. Mensur-Alkoy, Y. Ozeren, S. Alkoy, "Synthesis of needle-like  $\text{NaNbO}_3$  particles by hydrothermal process", *Proc. 22<sup>nd</sup> IEEE Int. Symposium on Applications of Ferroelectrics and Workshop on the Piezoresponse Force Microscopy (ISAF/PFM)*, pp.96-99, Prag, Czech Republic (2013).  
<http://dx.doi.org/10.1109/ISAF.2013.6748693>
67. S. Alkoy, A. Berksoy-Yavuz, E. Mensur-Alkoy, "Fabrication of random and textured lead-free  $(\text{K,Na})\text{NbO}_3$  in ribbon form", *Proc. 22<sup>nd</sup> IEEE Int. Symposium on Applications of Ferroelectrics and Workshop on the Piezoresponse Force Microscopy (ISAF/PFM)*, pp.141-144, Prag, Czech Republic (2013).  
<http://dx.doi.org/10.1109/ISAF.2013.6748692>
68. E. Mensur-Alkoy , A. Berksoy-Yavuz, S. Alkoy, "Modified lead-free potassium sodium niobate (KNN) and their properties", *2012 IEEE International Ultrasonics Symposium (IUS)*, pp. 1-4, Dresden, Germany (2012)  
<http://dx.doi.org/10.1109/ULTSYM.2012.0555>
69. S. Alkoy and S. Dursun, "Textured Lead-Free  $\text{KSr}_2\text{Nb}_5\text{O}_{15}$  Piezoelectric Ceramics, Fibers and Piezocomposites – Processing and Properties", *Proc. 21<sup>th</sup> IEEE Int. Symposium on Applications of Ferroelectrics*, pp.1-4, Aveiro, Portugal (2012).  
<http://dx.doi.org/10.1109/ISAF.2012.6297786>
70. M.Y. Kaya and S. Alkoy, "Synthesis of Anisometric Particles and Preparation of Textured Electroceramics by Gelcasting under Magnetic Fields", *Proc. 21<sup>th</sup> IEEE Int. Symposium on Applications of Ferroelectrics*, pp.1-4, Aveiro, Portugal (2012).  
<http://dx.doi.org/10.1109/ISAF.2012.6297787>
71. E.M. Alkoy, A.B. Yavuz, D. Avdan, S. Alkoy, "Electrical Properties and Impedance Spectroscopy of Modified Potassium Sodium Niobate Ceramics", *Proc. 21<sup>th</sup> IEEE Int. Symposium on Applications of Ferroelectrics*, pp.1-4, Aveiro, Portugal (2012).  
<http://dx.doi.org/10.1109/ISAF.2012.6297815>
72. S. Alkoy & M.Y. Doğan, "Electrical Properties of 0-3 Piezocomposites with Thermoplastic Elastomer and Epoxy Matrix", *Proc. 19<sup>th</sup> IEEE Int. Symposium on Applications of Ferroelectrics*, pp. 1-4, Edinburgh, U.K. (2010).  
<http://dx.doi.org/10.1109/ISAF.2010.5712268>

73. S. Alkoy and C. Gol, "Preparation of Solid and Hollow Piezoelectric Ceramic Fibers and Springs Using a Novel Alginate Gelation Method", *Proc. 2009 IEEE Int. Ultrasonics Symposium*, pp. 1711-1714, Rome, Italy (2009).  
<http://dx.doi.org/10.1109/ULTSYM.2009.5441795>
74. S. Alkoy and M.Y. Kaya, "Gelation Behavior and Properties of Lead Zirconate Titanate Gel-Cast under an Electric Field", *Proc. 2009 IEEE Int. Ultrasonics Symposium*, pp. 948-951, Rome, Italy (2009).  
<http://dx.doi.org/10.1109/ULTSYM.2009.5441863>
75. A. Hladky, S. Alkoy, D. Markley, R.E. Newnham, R. Meyer, W.J. Hughes, J.K. Cochran, "Analysis of transducers arrays from piezoelectric hollow spheres" *Proc. 2002 IEEE Int. Ultrasonics Symposium*, pp. 1239-1242, Munich, Germany (2002).  
<http://dx.doi.org/10.1109/ULTSYM.2002.1192518>
76. R.E. Newnham, S. Alkoy, A. Hladky, W.J. Hughes, D.C. Markley, R.J. Meyer, J. Zhang, "Underwater flat-panel transducer arrays", *Proc. MTS-IEEE Oceans 2001 Conference*, pp. 1529-1535, Honolulu-HW, USA (2001).  
<http://dx.doi.org/10.1109/OCEANS.2001.968060>
77. S. Alkoy, R.J. Meyer, A. Hladky, W. Jack Hughes, J.K. Cochran, R.E. Newnham, "Transducer arrays from piezoelectric hollow spheres", *Proc. 12<sup>th</sup> IEEE Int. Symposium on Applications of Ferroelectrics*, pp. 737-740, Honolulu-HW, USA (2001).  
<http://dx.doi.org/10.1109/ISAF.2000.942425>
78. R.J. Meyer, S. Alkoy, W. Chen, T. Ritter, R. Newnham, "High frequency imaging transducers from hollow spheres", *Proc. 12<sup>th</sup> IEEE Int. Symposium on Applications of Ferroelectrics*, pp. 741-744, Honolulu-HW, USA (2001).  
<http://dx.doi.org/10.1109/ISAF.2000.942426>
79. R.J. Meyer, S. Alkoy, J.K. Cochran, R.E. Newnham, "Development of materials and composites for > 25 MHz single element transducers", *Proc. 1999 IEEE Int. Ultrasonics Symposium*, pp. 1299-1302, Tahoe-NV, USA, (1999).  
<http://dx.doi.org/10.1109/ULTSYM.1999.849235>
80. B. Koc, S. Alkoy, K. Uchino, "A circular piezoelectric transformer with crescent shape input electrodes," *Proc. 1999 IEEE Int. Ultrasonics Symposium*, pp. 931-934, Tahoe-NV, USA (1999).  
<http://dx.doi.org/10.1109/ULTSYM.1999.849141>
81. A. Hladky, R. Bossut, S. Alkoy, P. Lopath, R.E. Newnham, "Finite element modeling of transduction materials with application to piezoelectric hollow sphere transducers" *Proc. 1998 IEEE Int. Frequency Control Symposium*, pp. 709 -714, Pasadena-CA, USA (1998).  
<http://dx.doi.org/10.1109/FREQ.1998.717978>
82. S. Alkoy, J.K. Cochran, R.E. Newnham, "Miniature hydrophones from hollow ceramic spheres", *Proc. 11<sup>th</sup> IEEE Int. Symposium on Applications of Ferroelectrics*, pp. 345-348, Montreux, Switzerland (1998).  
<http://dx.doi.org/10.1109/ISAF.1998.786704>
83. S. Alkoy, P.D. Lopath, A. Hladky, J.K. Cochran, R.E. Newnham, "Focused spherical transducers for ultrasonic imaging", *Proc. 1997 IEEE Int. Ultrasonics Symposium*, pp. 991-994, Toronto, Canada (1997).  
<http://dx.doi.org/10.1109/ULTSYM.1997.661747>
84. S. Alkoy, A. Dogan, A. Hladky, J.K. Cochran, R.E. Newnham "Vibration modes of PZT hollow sphere transducers", *Proc. 10<sup>th</sup> IEEE Int. Symposium on Applications of Ferroelectrics*, pp. 519-522, E. Brunswick-NJ, USA (1996).  
<http://dx.doi.org/10.1109/ISAF.1996.602803>
85. S. Alkoy, A. Dogan, A. Hladky, P. Langlet, J.K. Cochran, R.E. Newnham, "Miniature piezoelectric hollow sphere transducers", *Proc. 1996 IEEE Int. Frequency Control Symposium*, pp. 586-594, Honolulu-HW, USA (1996).  
<http://dx.doi.org/10.1109/FREQ.1996.559930>

### **Kitap Bölümleri**

1. S. Alkoy, M.B. Okatan, I.B. Mısırlıoğlu, E. Mensur-Alkoy, "Electrocaloric Ceramics", Eds. Arokia Nathan, Chen Jiang, DaeYong Jeong, Paolo Ghigna, and Manh-Huong Phan, *Encyclopedia of Materials : Electronics*, vol.1, p. 208-217, Elsevier, ISBN 978-0-12-819735-6 (2023)  
<http://dx.doi.org/10.1016/B978-0-12-819728-8.00041-3>
2. S. Alkoy, "Algılayıcılar, Akıllı Malzemeler ve Sistemler", (Yazan: Prof. Dr. Ahmet Ayhan), *Dünden Bugüne Türkiye'de Bilim ve Teknoloji ve Geleceğin Teknolojileri*, p. 389-395, Beta Basım Yayım Dağıtım AŞ, İstanbul, ISBN 975-92950-0-8 (2002)

### **Uluslararası Konferanslarda Sunulan ve Bildiri Kitaplarında Yayınlanan Bildiriler**

1. Havva Bayindir, Ayse Berksoy-Yavuz, M. Yunus Kaya, Sedat Alkoy, Ebru Mensur-Alkoy, "Lead Free Modified KNN Composition for a New Transducer Design", *Proceedings of the International Materials Technologies and Metallurgy Conference 2019*, Istanbul, Turkey, pp.36-39 (2019).
2. Yusuf Kilic, Sedat Alkoy, Ayse Berksoy-Yavuz and Ebru Mensur-Alkoy, "Preperation and Characterization of Microstructurally Engineered Textured 0.9PMN-0.1PT Piezoelectric Ceramics", *Proceedings of the International Materials Technologies and Metallurgy Conference 2019*, Istanbul, Turkey, pp. 40-43 (2019).
3. Ayse Berksoy-Yavuz, M. Yunus Kaya, Sinan Dursun, Ebru Mensur-Alkoy, Sedat Alkoy, "Dielectric and Piezoelectric Response of Textured Lead Free 0.94NBT 0.06BT System", *Proceedings of the International Materials Technologies and Metallurgy Conference 2019*, Istanbul, Turkey, pp.59-62 (2019).
4. Hüseyin Alptekin Sari, Ebru Menşur-Alkoy, Sedat Alkoy, "Fabrication & Characterization of Antiferroelectric PZSnT Bulk Ceramics", *Proceedings of the International Materials Technologies and Metallurgy Conference 2019*, Istanbul, Turkey, pp.67-70 (2019).
5. Gözde Toprak, Ömer Cakmak, Sedat Alkoy, Ebru Mensur-Alkoy, "Electrical Properties of Random and Textured 0.8Ba(Zr<sub>0.15</sub>Ti<sub>0.85</sub>)O<sub>3</sub> 0.2(Ba<sub>0.8</sub>Ca<sub>0.2</sub>)TiO<sub>3</sub> Piezoelectric Ceramics Near the Triple Point", *Proceedings of the International Materials Technologies and Metallurgy Conference 2019*, Istanbul, Turkey, pp.71-74 (2019).
6. Mustafa Yunus Kaya, Hüseyin Alptekin Sari, Ebru Menşur-Alkoy, Sedat Alkoy, "Structural and Electrical Properties of 0.65PNN 0.35PZT Ceramic Composition", *Proceedings of the International Materials Technologies and Metallurgy Conference 2019*, Istanbul, Turkey, pp.79-82 (2019).
7. S. Alkoy and C. Gol, "Fabrication and properties of solid and hollow piezoelectric fibers, springs and 1-3 piezocomposites", *Extended Abstracts of the 26<sup>th</sup> Meeting on Ferroelectric Materials and Their Applications*, Kyoto, Japan, pp.117-118 (2009).
8. S. Alkoy, E. Mensur Alkoy, K. Uchiyama, T. Shiosaki, "Fatigue Behaviour of Pb(Zr,Ti)O<sub>3</sub>/PbZrO<sub>3</sub> Multilayer Ferroelectric Thin Films", *Extended Abstracts of the 23<sup>rd</sup> Meeting on Ferroelectric Materials and Their Applications*, Kyoto, Japan, pp.179-180 (2006).
9. E. Mensur Alkoy, S. Alkoy, T. Shiosaki, "Microstructure and electrical property relationship in Ce, Cr, Er doped lead zirconate thin films prepared by sol-gel process", *Extended Abstracts of the 22<sup>nd</sup> Meeting on Ferroelectric Materials and Their Applications*, Kyoto, Japan, pp.179-180 (2005).

10. R.E. Newnham, S. Alkoy, A.-C. Hladky-Hennion, W.J. Hughes, R.J. Meyer, Jr., D.C. Markley, and J. Zhang “Underwater Flat-Panel Transducer Arrays,” *Proceedings of the 6<sup>th</sup> Congress of the French Acoustical Society* (Actes du 6e Congrès Français d’Acoustique), pp. I-VII, Lille, France (2002).
11. A. Hladky, S. Alkoy, D.C. Markley, R.J. Meyer, Jr., W.J. Hughes, J.K. Cochran, Jr., R.E. Newnham, “Etude et réalisation de transducteurs millimétriques”, *Proceedings of the 6<sup>th</sup> Congress of the French Acoustical Society* (Actes du 6e Congrès Français d’Acoustique), pp. 256-259, Lille, France (2002).
12. R.E. Newnham, J. Zhang, S. Alkoy, R.J. Meyer, W.J. Hughes, A. Hadky, J.K. Cochran, D. Markley, “Cymbal and BB underwater transducers and arrays”, *Proc. 10<sup>th</sup> US-Japan Seminar on Dielectric and Piezoelectric Ceramics*, pp. 305-307, Providence-RI, USA (2001).
13. J.F. Tressler, S. Alkoy, A. Dogan, R.E. Newnham, “Functional composites for sensors, actuators and transducers”, *Proc. 6<sup>th</sup> Int. Symposium on Ceramic Materials and Components for Engines*, pp. 79-84, Arita, Japan (1997).
14. S. Alkoy, S. Pekin, C. Toy, A. Tekin, “Turbostratic-hexagonal structure transition in hexagonal BN synthesis”, *Proc. 3<sup>rd</sup> European Ceramic Society Conference*, vol.1, pp. 119-124, Iberica, Spain (1993).

### ***Ulusal Dergilerde Yayınlanan Makaleler***

1. M. Boz, S. Alkoy, “Fabrication and Characterization of Piezoelectric Ceramic Transducers with Cylindrical Shell Form Using Slip Casting Method and Their Analysis by Finite Elements Method”, *Seramik - Journal of the Turkish Ceramics Society*, **1** (2) 1-6 (2021).
2. S. Alkoy, M.Ü. Ünver, S. Dursun, E. Menşur-Alkoy, “Development of 0.40Pb(Mg<sub>1/3</sub>Nb<sub>2/3</sub>)O<sub>3</sub>-0.25PbZrO<sub>3</sub>-0.35PbTiO<sub>3</sub> Piezoceramics with Crystallographic Texture for Bender-type Transducer Applications”, *Seramik - Journal of the Turkish Ceramics Society*, **1** (1) 14-20 (2021).
3. M.Y. Kaya, M.G. Özyazıcı, E. Mensur-Alkoy, S. Alkoy, “Kurşun Nikel Niyobat-Kurşun Zirkonat Titanat Seramik Kompozisyonunun Elektriksel ve Elektromekanik Özellikleri ve Dönüştürücü Uygulaması”, *Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi*, **19** (Special Issue), 294-301, (2019).
4. A. Berksoy-Yavuz, M.Y. Kaya, E. Mensur-Alkoy, S. Alkoy, “PMN-PNN-PZN-PT Dörtlü Katı Eriyik Sisteminin Yapısal ve Elektriksel Özelliklerinin İncelenmesi”, *Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi*, **19** (Special Issue), 286-293, (2019).
5. S. Alkoy, “Elektroseramiklerin Mikro ve Makro Boyutta Mühendisliği”, *Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi*, **14**, 261-266 (2014).
6. S. Dursun, E. Mensur Alkoy and S. Alkoy, “KSr<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub> (KSN) Piezoelektrik Seramiğinin Alginate Jelleşmesi ve Şablonlu Tane Büyütme Yöntemleriyle Fiber Formda [001] Kristalografik Doğrultuda Yönlendirilmiş Olarak Üretilmesi ve Elektriksel Karakterizasyonu”, *Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi*, **14**, 49-54 (2014).
7. Y. Özeren, E. Mensur-Alkoy, S. Alkoy, “İğnesel Morfolojide NaNbO<sub>3</sub> Antiferroelektrik Kristallerinin Hidrotermal Yöntemle Sentezlenmesi ve Yapısal Karakterizasyonu”, *Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi*, **14**, 55-60 (2014).
8. A. Berksoy-Yavuz, S. Alkoy, E. Mensur-Alkoy, “Lityum Katkılı Potasyum Sodyum Niyobat (KNN) Esaslı Seramiklerin Elektriksel Özellikleri ve Empedans Spektroskopisi”, *Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi*, **14**, 61-66 (2014).
9. A. Berksoy-Yavuz, U. Başaran, S. Alkoy, E. Mensur-Alkoy, “Plakasal Morfolojide NaNbO<sub>3</sub> Antiferroelektrik Kristallerinin İki Aşamalı Ergiyik Tuz ve Topokimyasal Kristal Dönüştürme Yöntemleriyle Sentezlenmesi ve Yapısal Karakterizasyonu”, *Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi*, **14**, 67-71 (2014).
10. Y. Özeren, A. Berksoy-Yavuz, S. Alkoy, E. Mensur-Alkoy, “Kurşunsuz Sodyum Bizmut Titanat (NBT) Esaslı Seramiklerin Yapısal, Dielektrik Özellikleri ve Empedans Spektroskopisi”, *Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi*, **14**, 73-78 (2014).
11. S. Dursun, T. Sis, E. Mensur Alkoy and S. Alkoy, “Tetragonal Tungsten Bronz Yapısına Sahip Ferroelektrik Bileşiklerin Anisometrik Morfolojilerde Eriyik Tuz Sentezi ile Üretilmesi ve Yapısal Karakterizasyonu” yayına kabul edildi, *Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi*, **14**, 261-266 (2014).

### **Ulusal Konferanslarda Sunulan ve Bildiri Kitabında Yayınlanan Bildiriler**

1. S. Dursun and S. Alkoy, “A novel route to fabricate [001] textured fiber K<sub>Sr</sub>2Nb5O15 piezoelectric ceramics and 1-3 textured piezocomposites”, *16. Uluslararası Metalurji ve Malzeme Kongresi Bildiriler Kitabı*, İstanbul, 13-15 Eylül (2012).
2. A. Berksoy-Yavuz, Y. Özeren, H. Yılmaz, S. Alkoy, E. Mensur-Alkoy, “Processing of lead-free sodium bismuth titanate piezoelectric ceramics and their electrical properties”, *16. Uluslararası Metalurji ve Malzeme Kongresi Bildiriler Kitabı*, İstanbul, 13-15 Eylül (2012).
3. A.S. Tekdaş, C. Göl, E. Tekel & S. Alkoy, “Piezoelektrik seramiklerin alginat jelleşmesi yöntemiyle fiber formunda şekillendirilmesi”, *15. Uluslararası Metalurji ve Malzeme Kongresi Bildiriler Kitabı*, pp. 2130-2139, İstanbul, Turkey, November 11-13 (2010).
4. D. Abanoz, H. Yanık, A. Çapoğlu & S. Alkoy, “Pb(Zr,Ti)O<sub>3</sub> esaslı piezoelektrik seramiklerin jel döküm yöntemiyle şekillendirilmesi”, *11. Uluslararası Metalurji ve Malzeme Kongresi Bildiriler Kitabı*, p. 804-810, İstanbul, Turkey, June 5-9 (2002).
5. T. Tavşanoğlu, O. Addemir, E. Başaran & S. Alkoy, “Fonksiyonel gradyanlı Ti/TixCy/DLC ince film kaplamaların reaktif DC magnetron sıçratma/PECVD hibrit tekniğiyle üretim koşullarının belirlenmesi ve karakterizasyonu”, *11. Uluslararası Metalurji ve Malzeme Kongresi Bildiriler Kitabı*, p. 1816-1823, İstanbul, Turkey, June 5-9 (2002).
6. A. Yeşilçubuk, A.Y. Oral, S. Alkoy & K. Şeşen, “Reaktif DC magnetron Sıçratma/PECVD hibrit tekniği ile n-tipi silisyum altlık üzerine bakır oksit ince film kaplamaların özelliklerine koşulların etkisi”, *11. Uluslararası Metalurji ve Malzeme Kongresi Bildiriler Kitabı*, p. 1824-1829, İstanbul, Turkey, June 5-9 (2002).
7. R.E. Newnham, S. Alkoy, A. Dogan, A. Amin, “Structure-property relations in smart materials”, *10. Uluslararası Metalurji ve Malzeme Kongresi Bildiriler Kitabı*, pp. 1385-1400, İstanbul, Turkey, May 24-28 (2000).
8. S. Alkoy, A. Dogan, A. C. Hladky and R. E. Newnham, “Piezoelectric hollow spheres”, *3. Seramik Kongresi Bildiriler Kitabı*, pp. 363-371, İstanbul, Turkey, October 22-25 (1996).
9. S. Alkoy, Ş. Pekin, Ç. Toy and A. Tekin, “Bor nitridin kristalografik yapı dönüşümleri ve mikroyapısal karakterizasyonu” *7. Uluslararası Metalurji ve Malzeme Kongresi Bildiriler Kitabı*, pp. 957-65, Ankara, Turkey, May 4-8 (1993).

### **Konferanslarda Sunumlar**

1. S. Alkoy, “1-3 piezocomposites with crystallographically textured ceramic fibers and textured 0-3 piezocomposites with single crystal particles aligned under electric fields”, *International Symposium on Piezocomposite Applications (ISPA 2024)*, Dresden, Germany, November 6-8, 2024 (Keynote).
2. H.A. Sarı, S. Alkoy, “Anisotropic 0-3 Piezocomposites with Anisometric Single-Crystalline Filler Particles Crystallographically Oriented by Dielectrophoresis Method”, *Electroceramics XIX*, Vilnius, Lithuania, August 19 – 22, 2024 (O).
3. A. Berksoy-Yavuz, E. Yalçın, S. Dursun, E. Menşur, S. Alkoy, “Enhancing Electroacoustic Performance of Sea-Shell Flexensional Piezoelectric Transducers via Texture Development”, *Electroceramics XIX*, Vilnius, Lithuania, August 19 – 22, 2024 (P).
4. N.K. Gözüaçık, S. Alkoy, “Origin of Ultrahigh Field-Induced Strain in the Gd-doped 0.854BNT-0.12BKT-0.026BT Ternary Ceramic System”, *41<sup>st</sup> Ferroelectric Materials and Their Applications (FMA41)*, Kyoto, Japan, June 12-15, 2024 (O).
5. M.S. Abdüsselamoğlu, S. Astan, H.A. Sarı, M.Y. Kaya, Ö. Özdemir, M. Boz, S. Alkoy, “Novel Multimode Transducers based on Thin Hollow Ceramic Shells for Broadband Underwater Applications”, *2023 International Workshop on Acoustic Transduction Materials & Devices (IWATMD)*, State College, PA, USA, May 15 - 18, 2023 (O).
6. H.A. Sarı, S. Alkoy, “İğnesel ve Plakasal Morfolojideki Piezoelektrik Şablon Parçacıklarının Ergiyik Tuz Sentezi İle Üretilmesi”, *XI. Uluslararası Katılımlı Seramik Kongresi*, Afyonkarahisar, Türkiye, 21-23 Kasım 2022 (O).

7. M. Boz, S. Alkoy, “Çoklu Rezonansa Sahip İnce Kabuk Formundaki Piezoseramik Dönüştürücülerin Sonlu Elemanlar Analizi, Üretimi ve Karakterizasyonu”, *XI. Uluslararası Katılımlı Seramik Kongresi*, Afyonkarahisar, Türkiye, 21-23 Kasım 2022 (O).
8. N.K. Gözüaçık, E. Yalçın, S. Alkoy, E. Menşur-Alkoy, “Nadir Toprak Elementi Katkılı Kurşun Nikel Niyobat-Kurşun Zirkonat Titanat Seramik Kompozisyonunun Elektrokalik Özelliklerinin İncelenmesi”, *XI. Uluslararası Katılımlı Seramik Kongresi*, Afyonkarahisar, Türkiye, 21-23 Kasım 2022 (O).
9. A. Ötün, M. Boz, E. Menşur Alkoy, S. Alkoy, “Basık Sferoid Formunda, Çoklu Rezonansa Sahip Piezoelektrik Kabuk Dönüştürücülerin Sonlu Elemanlar Analizi, Üretimi ve Karakterizasyonu”, *XI. Uluslararası Katılımlı Seramik Kongresi*, Afyonkarahisar, Türkiye, 21-23 Kasım 2022 (O).
10. A. Berksoy-Yavuz, H. Bayındır, H. Er, S. Alkoy, E. Menşur, “The Effect of CuO- Addition on Structural and Electrical Properties of Eco-Friendly Textured KNLNTS Ceramics”, *XI. Uluslararası Katılımlı Seramik Kongresi*, Afyonkarahisar, Türkiye, 21-23 Kasım 2022 (O).
11. E. Yalçın, N.K. Gözüaçık, S. Alkoy, H.A. Sarı, M.Y. Kaya and E. Menşur, “Characterization of 1-3 Piezocomposites from PNN PZT Piezoceramics”, *International Workshop on Piezoelectric Materials and Applications in Actuators*, Online, October 24-26, 2022 (O).
12. M.S. Abdüsselamoğlu, S. Astan, H.A. Sarı, M.Y. Kaya, Ö. Özdemir, S. Alkoy, “Design, Modeling and Fabrication of a Novel Multimode Transducer: The ZEPPELIN”, *International Workshop on Piezoelectric Materials and Applications in Actuators*, Online, October 24-26, 2022 (O).
13. S. Alkoy, M.Y. Kaya, E. Menşur, “Electrical Properties and Thin-Shell Transducer Applications of  $Pb(Ni_{1/3}Nb_{2/3})O_3-Pb(Zr,Ti)O_3$  Solid Solutions”, *The 5<sup>th</sup> International Conference on Applied Physics and Materials Applications & Applied Magnetism and Ferroelectrics (ICAPMA-JMAG-2021)*, Pattaya, Thailand, December 1-4, 2021 (Invited)
14. A. Aykaç, E. Menşur, S. Alkoy, “The Investigation of the Effect of Rare Earth Doping on the Electrical Properties and Device Performance of  $0.7Pb(Mg_{1/3}Nb_{2/3})O_3 - 0.3PbTiO_3$  (PMN-PT) Ceramics”, *The 5<sup>th</sup> International Conference on Applied Physics and Materials Applications & Applied Magnetism and Ferroelectrics (ICAPMA-JMAG-2021)*, Pattaya, Thailand, December 1-4, 2021 (Oral)
15. H.A. Sarı, E. Menşur, S. Alkoy, “Synthesis Of Needle-Like Lead Metaniobate Template Particles By Molten Salt Synthesis Process”, *V. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'21)*, Eskişehir, Türkiye, 13-15 Ekim 2021 (Oral).
16. E. Yalçın, N.K. Gözüaçık, S. Alkoy, A. Aykaç, M. Boz, E. Menşur, “Design And Characterization Of A Mid-Frequency Tonpiz Transducer Array From PZT-4 Piezoceramics”, *V. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'21)*, Eskişehir, Türkiye, 13-15 Ekim 2021 (Oral).
17. A. Aykaç, N.K. Gözüaçık, E. Menşur, S. Alkoy, “Design And Characterization Of A Tonpiz Transducer From  $0.7Pb(Mg_{1/3}Nb_{2/3})O_3 - 0.3PbTiO_3$  (PMN-PT) Ceramics”, *V. Uluslararası Seramik, Cam, Emaye, Sır ve Boya Kongresi (SERES'21)*, Eskişehir, Türkiye, 13-15 Ekim 2021 (Oral).
18. S. Alkoy, H.A. Sarı, N.K. Gözüaçık, H. Partal, E. Menşur, “Antiferroelectrics Revisited for High Energy Density Capacitors and Large Strain Actuators”, *The joint conference between The 12<sup>th</sup> Asian Meeting on Ferroelectricity and The 12<sup>th</sup> Asian Meeting on Electroceramics : Materials Thailand 2021*, July 7-9, 2021 (Invited).
19. E. Yalçın, M. Ankut, S.M. Sungur, H.I. Turgut, K.S. Kar, S. Alkoy, A. Aykaç, M. Boz, E. Aydın, N.K. Gözüaçık, E. Menşur, “Comparison of the Performance Characteristics of the Tonpiz Transducers Fabricated from 0.60PMN-0.40PT & PZT Piezoceramics”, *The joint conference between The 12<sup>th</sup> Asian Meeting on Ferroelectricity and The 12<sup>th</sup> Asian Meeting on Electroceramics : Materials Thailand 2021*, July 7-9, 2021 (Oral).
20. M. Boz, M.Y. Kaya, Ö. Özdemir, S. Alkoy, “Design, Finite Element Analysis, Fabrication and Electroacoustic Characterization of Transducer Arrays from Piezoceramics with Hollow Cylindrical Shell Form”, *The joint conference between The 12<sup>th</sup> Asian Meeting on Ferroelectricity and The 12<sup>th</sup> Asian Meeting on Electroceramics : Materials Thailand 2021*, July 7-9, 2021 (Oral).
21. M. N. Ciftci, B. Değirmenci, İ. Böbrek, S. Alkoy, A. Aykaç, M. Boz, A. Berksoy-Yavuz, E. Menşur, “Design, Development and Characterization of a 25-35 kHz Mid-Frequency Tonpiz Transducer Array from 0.675PMN-0.325PT Piezoceramics”, *The joint conference between The 12<sup>th</sup> Asian Meeting on Ferroelectricity and The 12<sup>th</sup> Asian Meeting on Electroceramics : Materials Thailand 2021*, July 7-9, 2021 (Oral).

22. I. Bobrek, E. Mensur-Alkoy, A. Berksoy-Yavuz, M.Y. Kaya, M.B. Okatan, I.B. Misirlioglu, S. Alkoy, "Temperature Dependent Electrical and Electrocaloric Properties of Textured PMN-PT Ceramics", *The 5<sup>th</sup> International Conference on Smart Materials and Nanotechnology (SmartMat@2020)*, Pattaya, Thailand, December 1-4, 2020 (Invited).
23. S. Alkoy, Ö. Tuna, M.Y. Kaya, Ö. Çakmak, "Structure - Property of Relationships in Lead-free Barium Calcium Titanate - Barium Zirconate Titanate (BCT-BZT) based Piezoceramic Oxides", *Towards Oxide Based Electronics (TO-BE) Spring Meeting*, Sant Feliu de Guíxols, Spain, March 12-14, 2018 (P).
24. K. Koçak, E. Mensur-Alkoy, S. Alkoy, "MiniTonpiliz : Device Application of Crystallographically Textured Piezoceramics", *Towards Oxide Based Electronics (TO-BE) Fall Meeting*, Riga, Latvia, September 11-13, 2017 (P).
25. A. Berksoy-Yavuz, E. Mensur-Alkoy, E. Gözütok, S. Dursun, S. Alkoy, "Fabrication and Characterization of Crystallographically Textured Ternary PIN-PMN-PT Piezoelectric Ceramics for Novel Piezoelectric Applications", *Towards Oxide Based Electronics (TO-BE) Fall Meeting*, Riga, Latvia, September 11-13, 2017 (P).
26. S. Alkoy, S. Dursun, A. Berksoy-Yavuz, E. Mensur-Alkoy, "Development of Texture in PMN-PT and PMN-PZT Piezoelectric Ceramics and Their High Power Applications", *TO-BE Spring Meeting 2016*, University of Warwick, England, 6-8 Nisan 2016 (P).
27. E. Mensur-Alkoy, M.Y. Kaya, S. Alkoy, "Structural and Electrical Properties of Lead Based PZN-PZT Ceramics with Low Sintering Temperature and Their 1-3 Piezocomposites", *TO-BE Spring Meeting 2016*, University of Warwick, England, 6-8 Nisan 2016 (P).
28. A. Mahmood , E. Mensur-Alkoy, A.Naeem, S. Alkoy, "Impedance, Modulus and Conductivity Investigation on the Systematically Cobalt Doped Sol-Gel Derived  $PbTi_{0.5}(Zr_{1-x}Co_x)_{0.5}O_{3-\delta}$  Ceramics", *TO-BE Spring Meeting 2016*, University of Warwick, England, 6-8 Nisan 2016 (P).
29. S. Dursun, E. Mensur-Alkoy, A. Sabuncu, A. Berksoy-Yavuz, S. Alkoy, "Fabrication of Lead-free Platelike  $Na_{0.5}Bi_{0.5}TiO_3$  Particles by Topochemical Microcrystal Conversion". *9. Uluslararası Seramik Kongresi*, Afyon, 26-28 Kasım 2015. (O)
30. E. Mensur-Alkoy, S. Alkoy, M.Y. Kaya, "Fabrication of Lead-Based Piezoceramic Fibers and Properties of Their Composites", *9. Uluslararası Seramik Kongresi* , Afyon, 26-28 Kasım 2015. (O)
31. K. Koçak, E. Mensur-Alkoy, S. Alkoy, "Design and Fabrication of a Mini Tonpiliz Transducer from Piezoelectric Ceramics", *9. Uluslararası Seramik Kongresi* , Afyon, 26-28 Kasım 2015. (O)
32. A. Berksoy-Yavuz, E. Mensur-Alkoy, S. Alkoy, "Fabrication of Textured 67.5PMN-32.5PT Ceramics and Their Characterization", *9. Uluslararası Seramik Kongresi* , Afyon, 26-28 Kasım 2015. (O)
33. M. Ü. Ünver, S. Dursun, E. Mensur-Alkoy, S. Alkoy, "Fabrication of High-Power Textured Piezoelectric PMN-PZT Ceramics", *9. Uluslararası Seramik Kongresi* , Afyon, 26-28 Kasım 2015. (O)
34. M.Y. Kaya, E. Mensur-Alkoy, S. Alkoy, "Structural and Electrical Properties of the Lead Zinc Niobate-Lead Zirconate Titanate (PZN-PZT) Ternary System", *9. Uluslararası Seramik Kongresi*, Afyon, 26-28 Kasım 2015. (O)
35. M.Ü. Ünver, S. Dursun, E. Mensur-Alkoy, S. Alkoy, "Processing and Electrical Properties of  $Pb(Mg_{1/3}Nb_{2/3})-PbTiO_3-PbZrO_3$  (PMN-PZT)", *9. Uluslararası Seramik Kongresi*, Afyon, 26-28 Kasım 2015. (O)
36. E. Mensur-Alkoy, M.Y. Kaya, D. Avdan, M.U. Ünver, S. Alkoy, "Fabrication of Piezoelectric Ceramic Hollow Fibers with Low Sintering Temperature and Their Characterization", *2014 Joint IEEE International Symposium on the Applications of Ferroelectric, International Workshop on Acoustic Transduction Materials and Devices & Workshop on Piezoresponse Force Microscopy (ISAF/IWATMD/PFM)*, State College, PA, USA, May 12-16, 2014 (O).
37. S. Alkoy, S. Dursun, "Textured Lead-Free Strontium Barium Niobate (SBN61) Bulk Ceramics", *2014 Joint IEEE International Symposium on the Applications of Ferroelectric, International Workshop on Acoustic Transduction Materials and Devices & Workshop on Piezoresponse Force Microscopy (ISAF/IWATMD/PFM)*, State College, PA, USA, May 12-16, 2014 (O).
38. S. Alkoy, E. Mensur-Alkoy, R. Olukkent, S. Dursun, A. Berksoy-Yavuz, M.Y. Kaya, and I. Dursun, "Continuous Fabrication Piezoceramic Fibers and Ribbons by a Novel Alginate Gelation Method and Their Electrical Properties", *2014 Joint IEEE International Symposium on the Applications of Ferroelectric*,

*International Workshop on Acoustic Transduction Materials and Devices & Workshop on Piezoresponse Force Microscopy (ISAF/IWATMD/PFM)*, State College, PA, USA, May 12-16, 2014 (P).

39. S. Alkoy, E. Mensur-Alkoy, R. Olukkent, S. Dursun, A. Berksoy-Yavuz, M.Y. Kaya, "Continuous Fabrication of Piezoceramic Fibers and Ribbons by a Novel Alginate Gelation Method and Electrical Properties of 1-3 Piezocomposites", *Electronic Materials and Applications 2014 Conference (EMA2014)*, Orlando, FL, USA, January 22 – 24, 2014 (O).
40. E. Mensur-Alkoy, A. Berksoy-Yavuz, S. Alkoy, "Fabrication of Textured Lead-free (K,Na)NbO<sub>3</sub> Ceramics by Alginate Gelation and Templated Grain Growth", *Electronic Materials and Applications 2014 Conference (EMA2014)*, Orlando, FL, USA, January 22 – 24, 2014 (P).
41. S. Alkoy, E. Mensur-Alkoy, A. Mahmood, "Synthesis and Properties of Co and Mg Doped BaTi<sub>0.7</sub>Zr<sub>0.2</sub>(Mg<sub>0.1-x</sub>Co<sub>x</sub>)O<sub>3</sub> Thin Films by Sol-gel Method for Tunable Dielectric Applications", *Towards Oxide Based Electronics (TO-BE) Fall Meeting*, Rome, Italy, September 22-23, 2014 (P).
42. E. Mensur-Alkoy, A. Berksoy-Yavuz, S. Alkoy, "Processing and Properties of Random and Textured Lead-Free Ceramics and Fibers", *8<sup>th</sup> Asian Meeting on Ferroelectrics*, Pattaya, Thailand, Dec. 9-14, 2012 (O).
43. H. Khassaf, B. Misirlioglu, E.M. Alkoy and S. Alkoy, "Effect of A-Site Doping Using Various Elements on the Phase Transition Temperatures in Perovskite Multiferroic BiFeO<sub>3</sub> of Thin Films", *2011 MRS Fall Meeting & Exhibit, Symposium P: Ferroelectric and Multiferroic Materials*, November 28 - December 2, Boston, USA (2011).
44. S. Alkoy, S. Dursun and M.Y. Kaya, "Molten Salt Synthesis of Anisometric Particles and Preparation of Textured Electroceramics with Anisotropic Properties", *SERES 11 - II. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress*, Eskişehir, Turkey, October 10-12, 2011 (O).
45. S. Dursun and S. Alkoy, "<001> fiber textured KSr<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub> piezoelectric ceramics and 1-3 piezocomposites", *SERES 11 - II. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress*, Eskişehir, Turkey, October 10-12, 2011 (O).
46. S. Alkoy and S. Dursun, "Development of Texture in KSr<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub> Piezoelectric Ceramic Fibers Drawn by the Alginate Gelation Process", *12<sup>th</sup> Conference of the European Ceramic Society*, Stockholm, Sweden 19-23 June, 2011 (O).
47. S. Alkoy A.S. Tekdaş, E. Tekel and R. Olukkent, "Fabrication of Piezoelectric Ceramic Fibers & Ribbons by a Novel Alginate Gelation Method and Characterization of Fiber & Ribbon-based Piezodevices", *12<sup>th</sup> Conference of the European Ceramic Society*, Stockholm, Sweden 19-23 June, 2011 (P).
48. S. Alkoy, M.Y. Kaya and N. Akdoğan, "Texture Formation in Bi<sub>4</sub>Ti<sub>3</sub>O<sub>12</sub> Piezoelectric Ceramics Induced by a Strong Magnetic Field", *12<sup>th</sup> Conference of the European Ceramic Society*, Stockholm, Sweden 19-23 June, 2011 (P).
49. S. Alkoy, S. Dursun, R. Topkaya and N. Akdogan, "Effect of Crystallinity and Particle Morphology on the Magnetic Anisotropy of Submicron Barium Hexaferrite Powders", *NanoTR VII - 7<sup>th</sup> Nanoscience and Nanotechnology Conference*, Istanbul, Turkey, June 27<sup>th</sup> - July 1<sup>st</sup> 2011 (P).
50. S. Alkoy, M.Y. Kaya and N. Akdoğan, "Investigation of Grain Orientation and Texture Formation in Piezoelectric Ceramics Induced by a Strong Magnetic Field", *Proc. 7<sup>th</sup> International Workshop on Piezoelectric Materials and Applications in Actuators*, Antalya, Turkey, pp. 11, October 10-13, 2010 (Invited)
51. S. Alkoy and S. Dursun, "Crystallographically Textured Piezoelectric Ceramic Fibers and 1-3 Piezocomposites", *Proc. 7<sup>th</sup> International Workshop on Piezoelectric Materials and Applications in Actuators*, pp. , Antalya, Turkey, pp. 17, October 10-13, 2010 (O)
52. S. Dursun, R. Topkaya, N. Akdogan and S. Alkoy, "Comparison of the Structural and Magnetic Properties of Submicron Barium Hexaferrite Powders Prepared by Molten Salt and Conventional Synthesis Routes", *International Conference on Nanoscale Magnetism - 2010*, Gebze, Turkey, September 28<sup>th</sup> - October 2<sup>th</sup> 2010 (P).
53. Y. Toprak, E. Menşur Alkoy and S. Alkoy, "Synthesis and Characterization of Electrospun Ba<sub>0.6</sub>Sr<sub>0.4</sub>TiO<sub>3</sub> Nanofibers and 3-3 Nanocomposites", *6<sup>th</sup> Nanoscience and Nanotechnology Conference (NanoTR-6)*, Izmir, Turkey, pp.328, June 15-18, 2010 (P).
54. A.S. Tektaş, A. Berksoy, E. Menşur Alkoy and S. Alkoy, "Pb(Zr,Ti)O<sub>3</sub> fibers and nanopowders produced by sol-gel method", *International Nanoscience and Nanotechnology Conference (NanoMats2009)*, Istanbul, Turkey, pp.175, August 10-13, 2009 (P).



55. S. Alkoy and M.Y. Kaya, "Effect of Electric Field on the Properties of Piezoelectric Lead Zirconate Titanate (PZT)", *Turkish Physical Society 26<sup>th</sup> International Physical Congress*, Muğla, Turkey, pp.71, September 24-27, 2009 (O).
56. S. Alkoy and C. Göl, "Properties of Lead Zirconate Titanate ( $\text{PbZr}_{0.5}\text{Ti}_{0.5}\text{O}_3$ ) Piezoelectric Ceramic Fibers Prepared by Gelation of Sodium Alginate", *Turkish Physical Society 26<sup>th</sup> International Physical Congress*, Muğla, Turkey, pp.92, August 25-29, 2008 (O).
57. C. Duran, S. Alkoy and D.A. Hall, "Electrical Properties of [001] Textured Uniaxial Ferroelectric Potassium Strontium Niobate ( $\text{KSr}_2\text{Nb}_5\text{O}_{15}$ ) Ceramics", *2<sup>nd</sup> Workshop on Anisotropic Science and Technology of Materials and Devices*, Gebze, Turkey, pp. 85-86, 22-25 June, 2008.
58. S. Alkoy, E. Mensur Alkoy and T. Shiosaki, "Effect of Crystallographic Orientation on the Electrical Properties of Ferroelectric Lead Zirconate Titanate ( $\text{PbZr}_{0.45}\text{Ti}_{0.55}\text{O}_3$ ) Thin Films", *2<sup>nd</sup> Workshop on Anisotropic Science and Technology of Materials and Devices*, Gebze, Turkey, pp. 54, 22-25 June, 2008,.
59. E. Mensur Alkoy, S. Alkoy & T. Shiosaki, "Effect of Texture and Microstructure on the Electrical Properties of Antiferroelectric Lead Zirconate ( $\text{PbZrO}_3$ ) Thin Films", *2<sup>nd</sup> Workshop on Anisotropic Science and Technology of Materials and Devices*, Gebze, Turkey, pp. 52-53, 22-25 June, 2008.
60. S. Alkoy, E. Mensur Alkoy, K. Uchiyama and T. Shiosaki, "Investigation of Fatigue Behaviour of  $\text{Pb}(\text{Zr,Ti})\text{O}_3$  (PZT) Thin Films with  $\text{PbZrO}_3$  (PZ) Buffer Layers", *53<sup>rd</sup> Spring Meeting of Japan Society of Applied Physics*, pp.595, Tokyo, Japan, 23-26 March 2006 (O).
61. E. Mensur Alkoy, S. Alkoy, K. Uchiyama and T. Shiosaki, "Influence of Film Texture and Thickness on the Electrical Properties of Sol-Gel Derived  $\text{PbZrO}_3$  Thin Films", *53<sup>rd</sup> Spring Meeting of Japan Society of Applied Physics*, pp.595, 23-26 March 2006, Tokyo, JAPAN (O).
62. S. Alkoy, C. Duran, D.A. Hall and T. Shiosaki, "Electrical Properties of Textured  $\text{KSr}_2\text{Nb}_5\text{O}_{15}$  Ceramics Fabricated by Reactive Templated Grain Growth", *52<sup>nd</sup> Spring Meeting of Japan Society of Applied Physics*, pp.655, Tokyo, Japan 29 March-1 April 2005 (O).
63. E. Mensur Alkoy, S. Alkoy & T. Shiosaki, "The effect of doping on the microstructure and electrical properties of lead zirconate thin films" *52<sup>nd</sup> Spring Meeting of Japan Society of Applied Physics*, pp.655, Tokyo, Japan 29 March-1 April 2005 (P).
64. H. Yanik, A. Hladky & S. Alkoy, "Fabrication and Characterization of Monolithic Piezoelectric Ceramic Transducers with Thin Shells", *8<sup>th</sup> Conference & Exhibition of the European Ceramic Society*, Istanbul, Turkey, June 29-July 3 2003 (P).
65. R.E. Newnham, J. Zhang, S. Alkoy, R. Meyer, W.J. Hughes, A. Hladky, J.K. Cochran, D.C. Markley, "Underwater and Biomedical Transducers", *105<sup>th</sup> Annual Meeting & Exposition of The American Ceramic Society*, Nashville-TN, USA, April 27-30, 2003 (O).
66. D.C. Markley, R.E. Newnham, S.E. Danley, R. Meyer, D. Van Tol, S. Alkoy, "Spherical "BB" Transducer Processing and Applications", *2002 US Navy Workshop on Acoustic Transduction Materials and Devices*, Baltimore-MA, USA, May 13-15, 2002 (P).
67. R.E. Newnham, J. Zhang, R. Meyer, S. Alkoy, J.K. Cochran and D. Markley, "Processing of miniature hollow sphere transducers", *2<sup>nd</sup> Ferroelectric Workshop in Puerto Rico*, San Juan, Puerto Rico, June 1-2, 2001 (O).
68. R. Meyer, R.E. Newnham, S. Alkoy, T. Ritter and J.K. Cochran, "Very High Frequency Pre-Focused Transducers from Hollow Spheres", *2000 US Navy Workshop on Acoustic Transduction Materials and Devices*, University Park-PA, USA, April 11-13, 2000 (P).
69. S. Alkoy, R. Meyer, A. Hladky, W.J. Hughes, J.K. Cochran and R.E. Newnham "Arrays & piezocomposite transducers from hollow spheres", *2000 US Navy Workshop on Acoustic Transduction Materials and Devices*, University Park-PA, USA, April 11-13, 2000 (P).
70. S. Alkoy, R. Meyer, A. Hladky, J.K. Cochran, W.J. Hughes and R.E. Newnham, "Omnidirectional Miniature Transducers and Directional Arrays from Piezoelectric Hollow Spheres", *101<sup>st</sup> Annual Meeting of the American Ceramic Society*, Indianapolis-IN, USA, April 25-28, 1999 (O).
71. S. Alkoy, R. Meyer, A. Hladky, J.K. Cochran, W.J. Hughes and R.E. Newnham, "Miniature omnidirectional hydrophones and directional arrays from piezoelectric hollow spheres" *1999 US Navy Workshop on Acoustic Transduction Materials and Devices*, University Park-PA, USA, April 13-15, 1999 (P).
72. S. Alkoy, J.K. Cochran and R.E. Newnham, "An Application of Smart Materials: Piezoelectric Hollow Sphere Transducers", *56<sup>th</sup> Pittsburgh Diffraction Conference*, Pittsburgh-PA, USA, November 5-7, 1998 (P).

73. S. Alkoy, A. Hladky, J.K. Cochran and R.E. Newnham, "Size Dependent Properties of Hollow Sphere Transducers" *4<sup>th</sup> Ceramics Congress organized by the Turkish Ceramic Society*, Eskisehir, Turkey, September 22-25, 1998 (O).
74. S. Alkoy, A. Hladky, J.K. Cochran and R.E. Newnham, "Hollow Sphere Microprobe Hydrophones", *ONR Transducers and Transducer Materials Workshop*, University Park-PA, USA, May 12-14, 1998 (P).
75. S. Alkoy, A. Hladky, J.K. Cochran and R.E. Newnham, "PZT-Polymer Composite Hydrophones Prepared from Hollow Ceramic Spheres", *100<sup>th</sup> Annual Meeting of the American Ceramic Society*, Cincinnati-OH, USA, May 4-6, 1998 (O).
76. S. Alkoy, P. D. Lopath, A. Hladky, J.K. Cochran and R.E. Newnham, "Piezoelectric Hollow Sphere Transducers" *24<sup>th</sup> International Center for Actuators and Transducers Symposium*, University Park-PA, USA, April 20-21, 1998 (O).
77. S. Alkoy, R. E. Newnham, A. C. Hladky and J. K. Cochran, "Size Dependent Properties of Tangentially Poled Sphere Transducers", *ONR Transducers and Transducer Materials Workshop*, University Park-PA, USA, April 29 - May 1, 1997 (P).
78. S. Alkoy, A. Dogan, A. C. Hladky-Hennion, J. K. Cochran, Jr. And R. E. Newnham, "Effect of Dimensions and Materials on the Characteristics of Hollow Sphere Transducers", *99<sup>th</sup> Annual Meeting of the American Ceramic Society*, Cincinnati-OH, USA, May 1997 (O).
79. S. Alkoy, A. Dogan, A. C. Hladky-Hennion, J. K. Cochran, Jr. and R. E. Newnham, "Piezoelectric Hollow Sphere Transducers", *21<sup>st</sup> International Center for Actuators and Transducers Symposium*, University Park-PA, USA, April 23-24, 1997 (P).
80. S. Alkoy, A. Dogan, A. Hladky, J.K. Cochran and R.E. Newnham, "Piezoelectric Hollow Sphere Transducers", *98<sup>th</sup> Annual Meeting of the American Ceramic Society*, Indianapolis-IN, USA, April 14-17, 1996 (O).
81. S. Alkoy, A. Hladky, J.K. Cochran and R.E. Newnham, "Vibration Modes of Tangentially Poled PZT Hollow Spheres", *ONR Transducers and Transducer Materials Workshop*, University Park-PA, USA, March 25-27, 1996 (O).
82. S. Alkoy, C. Toy, T. Gonul and A. Tekin, "Characterization of Isothermally Heat Treated Turbostratic Boron Nitride" *11<sup>th</sup> Conference on Glass and Ceramics*, Varna, Bulgaria, October 25-27, 1993 (P).

### **Seminerler**

1. S. Alkoy, "Fabrication and Properties of Solid and Hollow Piezoelectric Fibers, Springs and 1-3 Piezocomposites", *Nara Institute of Science and Technology*, Japan, June 3, 2009 (E).
2. S. Alkoy, "Antiferroelectrics - A Less-traveled Route to Actuators and Capacitors", *Sabancı University*, April 1, 2009 (E).
3. S. Alkoy, "Macro and Microstructural Engineering of Ferroelectric Ceramics", *Nara Institute of Science and Technology*, Japan, May 14, 2005 (E).
4. S. Alkoy, "Piezoelectric Ceramics and Transducer Applications", *Işık University*, October 25, 2002 (T).
5. S. Alkoy, "Piezoelectric Ceramic Transducers", *Gebze Institute of Technology*, June 22, 2000 (T).

## TAMAMLANMIŞ LİSANSÜSTÜ TEZLER

### *Doktora*

1. Hüseyin Alptekin SARI, “Development and characterization of highly sensitive tactile sensors based on crystallographically oriented anisometric single crystalline piezoelectric particles”, **Advisor**, GTU (ongoing)
2. Muhammet BOZ, “Multimode transducers based on piezoelectric ceramics in thin-shell form for underwater acoustic applications”, **Advisor**, GTU (ongoing)
3. Namık Kemal GÖZÜAÇIK, “Investigation of antiferroelectric ceramics for high energy density capacitor and electrocaloric applications”, **Advisor**, GTU (2023)
4. Mustafa Yunus KAYA, “Esnek gerilmeli dönüştürücü tasarımı, üretimi, karakterizasyonu ve uygulamaları”, Danışman, GTU (2018).
5. Sinan DURSUN, " Kristalografik dokuya sahip piezoseramiklerin ultrasonik motor uygulamaları", Danışman, GTU (2017).

### *Yüksek Lisans*

6. Münür Mert KIRAC, “Sualtı derinlik tespiti için iskandil sonarı dönüştürücü tasarımı, geliştirilmesi ve karakterizasyonu”, **Advisor**, GTU (2024)
7. Aykut AYKAÇ, “Investigation of the effect of rare-earth dopants on the structural and electrical properties of lead-based piezoelectric ceramics and their application in Tonpiliz transducers”, **Advisor**, GTU (2023)
8. Hilmi Alper ATEŞ, “Production and Characterization of Thin Alumina Wafers for Electronic Circuit Substrate Applications”, **Advisor**, GTU (2022).
9. Muhammet BOZ, “Fabrication and characterization of piezoelectric ceramic transducers with cylindrical shell form using slip casting method and their analysis by finite elements method”, **Advisor**, GTU (2021).
10. Bengü GÜLDALI, “Investigation of mechanical properties of chemical tempered soda lime silicate glasses by spraying method”, **Advisor**, GTU (2019).
11. Hüseyin Alptekin SARI, “Antiferroelektrik PZSnT seramiklerinin kütleli olarak üretilmesi”, Danışman, GTU (2019).
12. Mustafa Ünsal ÜNVER, “Kristalografik dokuya sahip PMN-PZT piezoseramiklerin bender tipi dönüştürücü uygulamaları için geliştirilmesi”, Danışman, GTU (2018).
13. Kadir KOÇAK, “Dokulu piezoelektrik seramiklerden mini tonpiliz dönüştürücü tasarımı, üretimi ve karakterizasyonu”, Danışman, GTU (2018).
14. Muzaffer VARDARLI, “(K,Na)NbO<sub>3</sub> Esaslı 1-3 Piezokompozitlerin Üretimi ve Elektriksel Karakterizasyonu”, Eş-Danışman, GTU (2015).
15. Recep OLUKKENT, “Yarım Küre Formundaki Piezoelektrik Seramiklerin Asıltı Döküm Yöntemiyle Üretimi ve Elektriksel Karakterizasyonu”, Danışman, GYTE (2013).
16. Yağız ÖZEREN, “İğnesel NaNbO<sub>3</sub> Kristallerin Hidrotermal Sentez Yöntemiyle Üretimi ve ve Yapısal Karakterizasyonu”, Eş-Danışman, GYTE (2013).
17. Ayşe BERKSOY, “Bakır Oksit ve Lityum Katkılı Kurşunsuz Piezoelektrik Potasyum Sodyum Niyobatın Elektriksel Özelliklerinin İncelenmesi”, Eş-Danışman, GYTE (2011).
18. Ahmet Serkan TEKDAŞ, “Kurşun Esaslı ve Kurşunsuz Piezoelektrik Seramik Fiberlerin Üretilmesi ve Karakterizasyonu”, Eş-Danışman, GYTE (2011).
19. Sinan DURSUN, “Dokulu ferroelektrik KSr<sub>2</sub>Nb<sub>5</sub>O<sub>15</sub> fiberlerin alginat jelleşmesi yöntemiyle üretimi ve fiberlerden hazırlanan 1-3 piezokompozitlerin elektriksel özelliklerinin incelenmesi”, Danışman, GYTE (2011).
20. Emre TEKEL, “Alginat Jelleşmesi Yöntemiyle Piezoelektrik Seramik Fiberlerin Üretilmesi ve Karakterizasyonu”, Danışman, GYTE (2011).

21. Mustafa Yunus KAYA, "Piezoelektrik seramiklerde elektrik alan etkisiyle tane yönlenmesi ve doku oluşumunun incelenmesi", Danışman, GYTE (2010).
22. Hakan YANIK, "Asıltı döküm yöntemiyle üretilen piezoelektrik dönüştürücülerin karakterizasyonu", Danışman, GYTE (2003).
23. Bengü YAPAR, "Alginate jelleşmesi yöntemiyle seramiklerin şekillendirilmesi", Danışman, GYTE (2003).
24. Dilek ABANOZ," Pb(Zr, Ti)O<sub>3</sub> esaslı piezoelektrik seramiklerin jel döküm yöntemiyle şekillendirilmesi", Danışman, GYTE (2002).

## EDİTORYAL & DÜZENLEME SORUMLULUKLARI, HAKEMLİKLER

### *Yönetim Kurulu Üyesi*

- Asian Ferroelectrics Association (2012-2018)
- Türk Seramik Derneği (2012- )

### *Editörler Kurulu Üyesi*

Seramik – Journal of the Turkish Ceramic Society  
Smart Materials Research  
Eskişehir Osmangazi Üniversitesi - Mühendislik ve Mimarlık Fakültesi Dergisi

### *Düzenleme Komitesi Üyesi*

- 22<sup>nd</sup> International Symposium on Boron, Borides and Related Materials, Istanbul, Turkey, September 8-12, 2024.
- SERES 18 - IV. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress, Eskişehir, Turkey, October 10-12, 2018
- 9<sup>th</sup> Ceramics Congress, Afyon, Turkey, November 24-26, 2015.
- SERES 14 - III. International Ceramic, Glass, Porcelain Enamel, Glaze and Pigment Congress, Eskişehir, Turkey, October 14-17, 2014
- 8<sup>th</sup> Ceramics Congress, Afyon, Turkey, November 22-24, 2012.
- 7<sup>th</sup> International Workshop on Piezoelectric Materials and Applications in Actuators (IWPMA 2010), Antalya, Turkey, October 10-13, 2010.
- 8<sup>th</sup> Conference & Exhibition of the European Ceramic Society (ECerS 2003), Istanbul, Turkey, June 29-July 3 2003.

### *Hakem*

Advanced Powder Technology  
Applied Physics Letters  
International Journal of Applied Ceramics Technology  
Journal of Applied Polymer Science  
Journal of the Acoustical Society of America  
Journal of the American Ceramic Society  
Journal of Materials Research  
Journal of Solid State Chemistry  
Key Engineering Materials  
Materials and Design  
Materials Chemistry and Physics  
Scientific Reports  
Sensors & Actuators A

### *Proje Değerlendirme Panel Üyesi / Hakem*

TÜBİTAK  
TEYDEB  
Sanayi Bakanlığı – SanTez  
Sanayi Bakanlığı – Teknogirişim

### **ÜYELİKLER**

IEEE – Ultrasonics, Ferroelectrics, Frequency Control Society, 1996 -  
Türk Seramik Derneği, 1998 -  
TMMOB Metalurji Mühendisleri Odası, 1993 -  
Japan Society for Applied Physics, 2004-2006  
American Ceramic Society, 1995 -

## ÖDÜLLER VE BURSLAR

- Gebze Yüksek Teknoloji Enstitüsü, Bilim Ödülü, 2014.
- Gebze Yüksek Teknoloji Enstitüsü, Araştırma Teşvik Ödülü, 2010.
- Japan Society for the Promotion of Science (JSPS) Fellowship, Nara Institute of Science and Technology, Japan, 2004-2006.
- YÖK Yurtdışı Lisansüstü Eğitim Bursu, The Pennsylvania State University, USA, 1994-1999.

## VERİLEN DERSLER

### *Lisans*

2006 – cont.	MSE 204 Crystal Chemistry (İngilizce)
2013 – cont.	MSE 463 Ceramic Powder Synthesis through Chemical Routes (İngilizce)
2001 – 2012	MBM 104 Malzeme Bilimi (Türkçe)
2006 –2010	MBM 471 Polimer Kimyası (Türkçe)

### *Lisansüstü*

2000 – cont.	MSE 570 Anisotropic Properties of Crystals (İngilizce)
2001 – cont.	MSE 535 Dielectrics and Electroceramics (İngilizce)
2003 – cont.	MSE 636 Ferroelectric Materials and Devices (İngilizce)
2011 – cont.	MSE 601 Structure-Property Relationships in Solids (İngilizce)
2004	MBM 503 X-Işımları Kırınımı (Türkçe)

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**Son Güncelleme Tarihi :1 Kasım 2024**