ÖZGEÇMİŞ

**Adı Soyadı:** Hasan GÖÇMEZ

**Unvanı:** Prof. Dr.

**Araştırma Konuları :** İleri teknoloji seramikleri, Yeni nesil güneş pilleri, Seramik tabanlı kompozit zırh malzemeleri, Savunma sanayinde kullanılan Lityum tabanlı rezerv pilleri, nanoboyutlu oksit ve oksit olmayan tozların üretimi ve uygulama alanına hazırlanması

**ÖĞRENİM DURUMU :**

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| **Derece**  | **Bölüm/Program** | **Üniversite**  | **Yıl**  |
| Lisans  | Metalurji Mühendisliği  | Orta Doğu Teknik Üniversitesi  | 1994  |
| Y. Lisans  | Malzeme/Seramik Mühendisliği  | Rutgers University (ABD) | 1997  |
| Doktora | Malzeme/Seramik Mühendisliği  | Rutgers University (ABD) | 2001  |

**AKADEMİK GÖREVLER :**

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| **Görev Unvanı**  | Bölüm/Program | Görev Yeri | **Yıl**  |
| Ar.Gör. | Malzeme/Ser. Müh. | Rutgers University (ABD)  | 1997-2001 |
| Post-Doktora  | Kimya Müh.  | Stevens Inst. of Tech. (ABD) | 2001-2002 |
| Misafir B. Adamı | İnorganik Kimya Blm. | Stockholm University (İsveç) | 2004 |
| Yar.Doç.  | Seramik Müh. | Dumlupınar Üniversitesi | 2002-2006 |
| Doç. Dr. | Seramik Müh. | Dumlupınar Üniversitesi | 2007-2011 |
| Misafir B. Adamı | Malzeme Müh.  | Yamaguchi University(Japonya) | 2006-2007 |
| Misafir B. Adamı | İleri Malzeme Lab. | AIST (Japonya) | 2008 (yaz) |
| Misafir B. Adamı | Malzeme Blm. Müh. | Rutgers University (ABD) | 2011 (yaz) |
| Prof. Dr. | Malzeme Ser. Müh. | Dumlupınar Üniversitesi | 2011- |

**İDARİ GÖREVLER :**

|  |  |  |  |
| --- | --- | --- | --- |
| **Görev Unvanı**  | Görev Yeri | Bölüm/Program | **Yıl**  |
| FBE Müdürü | Dumlupınar Üniversitesi  | Fen Bilimleri Enstitüsü | 2012-2018 |
| Dekan  | Dumlupınar Üniversitesi | Simav Teknik Eğitim Fak.  | 2014-2017 |
| FBE Müdür Yrd. | Dumlupınar Üniversitesi | Fen Bilimleri Enstitüsü | 2008-2012 |
| Bölüm Bşk. Yrd. | Dumlupınar Üniversitesi | Dumlupınar Üniversitesi | 2003-2011 |

**Patentler**

Göçmez, H., Açıkbaş, G., “polimer matrisli seramik takviyeli kompozitler kullanılarak seramik sağlık gereci ürünlerine alternatif ürünlerin eldesi için bir yöntem” (TR2015 12605B)

Göçmez, H., Yurdakul, A., Yurdakul, H., “hidrotermal yöntemle mavi renkli Y-TZP(ıtriyum stabilize tetragonal zirkonya polikristal) sentezi ve otomotiv sanayisi için seramik kaynak pimlerinin üretimi” (ulusal patent inceleme aşamasında)

Göçmez, H., Yurdakul, A., Yurdakul, H., hidrotermal yöntemle Y-TZP (ıtriyum stabilize tetragonal zirkonya polikristal) sentezi ve otomotiv sanayisi için seramik kaynak pimlerinin üretimi” (ulusal patent inceleme aşamasında)

**Ödüller**

* 7. Uluslararası Malzeme Bilimi ve Teknoloji Konferansı (Romanya), Üstün Başarı Ödülü, 2018
* IAEC18 Uluslararası Otomotiv Mühendisliği Konferansı I. Otomotiv Tez Ödülleri, En iyi Tez Ödülü (Doktora Tez Danışmanı olduğum Dr. Arife Yurdakul’un doktora teziyle) 2018
* Bilim, Sanayi ve Teknoloji Bakanlığı Mikro İşletme Verimlilik Proje Teşvik Ödülü, 2016
* ODTÜ öğretim elemanları derneği Serhat Özyar Yılın Genç Bilim Adamı Ödülü (Doktora Tez Danışmanı olduğum Dr. Arife Yurdakul’un doktora teziyle), 2016
* JSPS bursu (Japan Society for the Promotional Science), Japonya, 2006-2007
* Araştırma Bursu, Rutgers University, 1998-2001
* YÖK yurtdışı yüksek lisans/doktora bursu 1996-1999

**Projeler**

1. “Düşük Kurşun Içerikli Organik-Inorganik Perovskit Güneş Pillerinin Üretimi, Geliştirilmesi ve Karakterizasyonu” **TUBİTAK-1001 116F073**, **Proje Yürütücüsü**, 2017-2020.
2. “Nükleer uygulamalar için mekanik özellikleri geliştirilmiş B4C/MAX kompozitlerinin SPS yöntemiyle üretilmesi” **YÖK-Mevlana Değişim Programı (Ukrayna) MEV-2018**, **Proje Yürütücüsü**, 2018-2019
3. “ZrB2 esaslı seramiklerin sentezlenmesi ve solar yöntemle sinterlenmesi” **YÖK-Mevlana Değişim Programı (Japonya) MEV-2016-044**, **Proje Yürütücüsü**, 2016-2018
4. “Seramik Zırhlar” Roketsan, **Proje Yürütücüsü**, 2013-2014
5. Otomotiv Sanayi Uygulamaları İçin Zirkonya Bazlı Seramik Kaynak Pimlerinin Geliştirilmesi, **TUBİTAK-1005 213M284**, **Proje Yürütücüsü**, 2014-2016.
6. Boya Duyarlaştırılmış Güneş Pilleri için Nb2O5 Bazlı Nanokompozit Elektrot Üretimi Ve Fotovoltaik Özelliklerinin Geliştirilmesi, **TUBİTAK-1001 110M443**, **Proje Yürütücüsü**, 2011-2013.
7. Titanyum-Zirkonya Nanokompozit İnce Filmlerin Süperkritik CO2 Yöntemi Kullanılarak Üretilmesi ve Fotokatalitik Performansının Geliştirilmesi, **TUBİTAK 110M780**, **Proje Yürütücüsü**, 2011.
8. Aktive edilmiş tozlarla düşük sıcaklıklarda ZrB2 ve ZrB2 esaslı seramiklerin sentezlenmesi, sinterlenmesi ve mekaniksel özelliklerinin geliştirilmesi, **BOREN**, **Proje Yürütücüsü**, 2009-2011.
9. Deagglomeration of submicron and nanoparticles of ceramic materials and detonation diamond, **TUBİTAK-RFBR (Rusya)** **109M712**, iki antlaşma projesi, **Proje Yürütücüsü**, 2009-2011.
10. Düşük sıcaklıkta nanokristal tetragonal zirkonya bazlı seramiklerin sentezlenmesi ve topaklanma probleminin önlenilmesi, **TUBİTAK 107M367**, **Proje Yürütücüsü**, 2007-2009.
11. Super energy high milling in the production of hard alloys, ceramic and composite nanomaterials, **FP6 (Avrupa Birliği 6.Çerçeve programı) STREP projesi (NanoMATERIALS)**, **Proje Yürütücüsü**, 2004-2007.
12. Diyatomit ve zeolit hammaddelerinden nanoboyutlu β-kristobalit seramik tozun sentezlenmesi, **DPT Projesi 2003K120308**, **Araştırmacı**, 2004-2006
13. Hızlı Prototip Tekniği ve Direk Döküm Yöntemi ile Diş Köprüsü Üretimi, Brinell Center projesi (**Stockholm Universitesi**), **Araştırmacı**, 2004.
14. Enerjetik Malzemelerin Moleküler Modelleme kullanarak polimorflarının tayini, **ONR** projesi (**Stevens Institute of Technology**), **Araştırmacı**, 2002-2003
15. SiC/Si Kompozitlerin Sedimantasyon Döküm Yöntemi ile Üretimi, CCR (ABD), **Proje Yürütücüsü**, 2002.

**Editörlük**

* Yardımcı Editör, Journal of the Ceramic Society of Japan, 2012-2018
* Editör, FBE dergisi, 2012-2018

**Doktora Tezi ve Danışmanı :**

“A comparison of freshly ground crystalline quartz and naturally occurring crystalline quartz in ball clays ”

**Danışmanı:**Prof. Dr. Richard A. Haber

**Yönetilen Doktora ve Yüksek Lisans Tezleri**

**Doktora Tezleri**

Açıkbaş, G., “Seramik sağlik gereçlerine alternatif polimer matrisli kompozit malzemelerin geliştirilmesi ve karakterizasyonu”, Dumlupınar Üniversitesi, 2016

Yurdakul, A., “Otomotiv sanayisinde kullanılan kaynak pimleri için hidrotermal yöntemle ıtriyum tetragonal zirkonya polikristal toz sentezi”, Dumlupınar Üniversitesi, 2015

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Çelik, G., “YAG-Al2O3 kompozitinin mikroyapısı ve mekaniksel özellikleri” Dumlupınar Üniversitesi, 2010.

Alanbey, S., “ZrO2-Al2O3 nanokompozit tozların tartarik asit jel yöntemi ile sentezlenmesi ve karakterizasyonu” Dumlupınar Üniversitesi, 2009.

Yeşilırmak, Y., “Katı roket yakıtlarının karışım derecesinin belirlenmesi” Ortak Danışman, ODTU-Dumlupınar Üniversitesi, 2006.

Özcan, Ö., “Nanokristal alumina sentezi ”, Dumlupınar Üniversitesi, 2006.

Uzun, M., “Katı Hal Sentezi ile Üretilen BST’nin elektriksel özellikleri”, Dumlupınar Üniversitesi, 2005.

Alp, İ. Ö., “Organik dağıtıcılar kullanarak TiO2 tozlarının sulu ortamda dispersiyonu ve stabilitesi”, Dumlupınar Üniversitesi, 2005.

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**A. Uluslararası hakemli dergilerde yayımlanan makaleler :**

1. A. Yurdakul, H. Gocmez “One-step hydrothermal synthesis of yttria-stabilized tetragonal zirconia polycrystalline nanopowders for blue-colored zirconia-cobalt aluminate spinel composite ceramics” Ceramics International, 40,12117-12122, (2014)
2. H. Gocmez, M. Tuncer, I. Bogomol “Spark plasma sintering of ZrB2 powders synthesized by citrate gel method”International Journal of Refractory Metals and Hard Materials, 78, 127-130, (2019)
3. C. Soykan, H. Gocmez “The physical properties of bismuth replacement in lead halogen perovskite solar cells: CH3NH3Pb1-xBixI3 compounds by ab-initio calculations”
4. G. Açikbaş, H. Gocmez,, Characterization and properties of industrial polymer matrix composite sanitarywares. Materials Testing, 59 (11-12), 1067-1074, (2017).
5. U. Olgun, M. Gülfen, H. Gocmez, M. Tuncer, “Synthesis and room temperature coating of nano ZrB2 on copper using mechanical roll-milling” Advanced Powder Technology, 28, 2044-2051, (2017)
6. H. Gocmez, M. Tuncer, Y. S. Yeniceri, “The Influence of SiC, B4C and ZrO2 on the densification and mechanical properties of ZrB2” Journal of the Australian Ceramic Society, 52, 73-75, (2016)
7. M. Tuncer, H. Gocmez, S. Cetin “Rapid expansion of TiO2 layers processed by supercritical solutions for dye sensitized solar cell applications” Materials Testing, 58, 1-4, (2016)
8. C. Duran, K. Sato, Y. Hotta, H. Gocmez, K. Watari “Ball milling assisted hydrothermal synthesis of ZrO2 nanopowders” Ceramics International, 41, 5588-5593, (2015)
9. O. Sahin, H.S. Güder, E. Sahin, H. Göçmez M. Sopicka-Lizer, O. Uzun, “Preparation of Fine-Grained Silicon-Nitride Ceramics and their Characterization by Depth-Sensing Indentation Tests” Acta Physica Polonica A, (2015)
10. H. Gocmez, M. Tuncer, Y. S. Yeniceri, “Low temperature synthesis and pressureless sintering of nanocrystalline zirconium diboride powders Ceramics International, 40,12117-12122, (2014)
11. H. Kaftelen, M. Tuncer, S. Tu, S. Repp H. Gocmez R. Thomann, S. Weber, E. Erdem “Mn-substituted spinel Li4Ti5O12 materials studied by multifrequency EPR spectroscopy” Journal of Materials Chemistry A, 1, 9973-9982 (2013)
12. M. Sopicka-Lizer, C. Duran, H. Gocmez, T. Pawlik, M. Mikuskiewicz, K. MacKenzie “Effect of high energy milling on the formation and properties of sialon ceramics prepared from silicon nitride-aluminium nitride precursors” Ceramic International Vol. 39, 4269-4279 (2013)
13. O. Sahin, I. Demirkol, H. Gocmez, M. Tuncer, H. A. Cetinkara, H. S. Güder, E. Sahin, A. R. Tuncdemir “Mechanical properties of nanocrystalline tetragonal zirconia stabilized with CaO, MgO and Y2O3” Acta Physica Polonica A, 123, pp. 296-298 (2013)
14. O. Sahin, A. Hasde, I. Demirkol, H. Gocmez, M. Tuncer, H. A. Cetinkara, H. S. Güder, E. Sahin, A. R. Tuncdemir “Hardness behavior of Alumina-Zirconia nanocomposites synthesized by gel process” Acta Physica Polonica A 123, pp. 299-301 (2013)
15. H. Gocmez, M. Tuncer, I. Uzulmez O. Sahin “Particle Formation and Agglomeration of an Alumina-Zirconia Powder Synthesized an Supercritical CO2 Method” Ceramics International, 38, 1215-1219 (2012).
16. T. Nagaoka, C. Duran, H. Gocmez, H. Hyuga, K. Watari, “Hydraulic alumina as an inorganic binder for extruding and sintering Si3N4 ceramics” Journal of the Ceramic Society Japan, vol. 120, pp. 330-333, (2012)
17. H. Gocmez, M. Tuncer “Effects of pH on Agglomeration State of Al2O3 - ZrO2 (ZTA) Nanocomposite Powders Synthesized by Tartaric Gel Method” Ceramics Silikaty 56, 107-111, (2012).
18. H.S. Güder, E. Sahin, O. Sahin, H. Göçmez, C. Duran, H. Ali Çetinkara “Vickers and Knoop Indentation Microhardness Study of SiAlON Ceramic” Acta Physica Polonica A, 120, 1026-1033, (2011)
19. H. Gocmez, M. Tuncer, I. Uzulmez “The formation and characterization of ZrO2/SiO2 Nanocrystalline Composite by Supercritical CO2” Ceramics International, 36, 2231-2234 (2010)
20. H. Gocmez, M. Tuncer, Z. Gokyer, H. Fujimori, C. Duran “The Preparation and Characterization of Al2O3-ZrO2 Nanocrystalline Composite by a Simple Gel Method” Materials Science and Engineering: B, 173, 80-83 (2010)
21. O. Sahin, O. Uzun, Malgorzata Sopicka-Lizer, H. Gocmez, U. Kölemen “Analysis of load-penetration depth data using Oliver–Pharr and Cheng–Cheng methods of SiAlON–ZrO2 ceramics” Journal of Applied Physics D, 41, no. 3 (2008)
22. H. Gocmez and H. Fujimori “Synthesis and characterization of pure nanocrystalline ZrO2 and ZrO2-MgO solid solutions by citrate gel process” Materials Science and Engineering B, 148, 226-229 (2008)
23. H. Gocmez, H. Fujimori “Low temperature synthesis and characterization of CaO and MgO-stabilized nanocrystalline tetragonal zirconia by citrate gel process” Key Engineering Materials, 368-372, 754-757 (2008)
24. O. Sahin, O. Uzun, Malgorzata Sopicka-Lizer, H. Gocmez, U. Kölemen “Dynamic Hardness and Elastic Modulus Calculation of SiAlON Ceramics using Nanoindentation Tests” Journal of European Ceramic Society, 28, 1235-1242 (2008)
25. H. Gocmez, O. Ozcan “Low Temperature Synthesis of Nanocrystalline α-Al2O3 powder by tartaric acid gel method” Materials Science and Engineering A, 475, 20-22 (2008)
26. H. Gocmez, C. Duran, H. Yılmaz “The dispersion of mechanochemically activated SiC and Al2O3 powders” Materials Science and Engineering A, 475, 23-26 (2008)
27. T. Wlodek, M. Sopicka-Lizer, H. Gocmez, C. Duran “Influence of the milling environment on the reaction progress in the Si-Al2O3 system” Journal of European Ceramic Society, 27, 739-742 (2007)
28. H. Gocmez and R.A. Haber “Determinazione pratica della cristallinità del quarzo α mediante diffrattometria a raggi X” C e Ca tarafından İtalyancaya cevrilmiş ([Ceramurgia](http://www.scopus.com/source/sourceInfo.url?sourceId=21526) Scopus içinde bulunmaktadır), 36 (2), 165-167, 2006.
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30. Z. Peralta-Inga, N. Degirmenbasi, U. Olgun, H. Gocmez, D. M. Kalyon “Recrystallization of CL-20 and HNFX from Solution for Rigorous Control of the Polymorph Type: Part II, Experimental Studies” Journal of Energetic Materials, 24, 103-109 (2006)
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34. R. Goren, H. Gocmez, C. Ozgur “The preparation of cordierite from talc, diatomite and alumina mixtures”, Ceramics International, 32, 53-56 (2005)
35. H. Gocmez, R.A. Haber “Characterization of quartz crystallinity in naturally occurring clay minerals using diffuse reflectance infrared spectroscopy”, Key Engineering Materials, 264-268, 1601-1604 (2004)
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38. H. Gocmez, M. Ceken, G. Yanik “The characterization of Ancient Ceramics from Hasankeyf (Turkey)” Key Engineering Materials, 264-268, 2407-2410 (2004)
39. S. Dikmen, B. Greenblatt, P. Shuk, H. Gocmez “Hydrothermal synthesis and properties of Ce1-xGdxO2-δ solid solution” Solid State Sciences, (2002)
40. H. Gocmez, R.A. Haber “A comparison of naturally occurring crystalline quartz and freshly ground crystalline quartz in clays”, Ceramic Engineering & Science, 22, 19-25 (2001)
41. H. Gocmez, R.A. Haber “Methods for the determination of soluble salts in casting slips”, Ceramic Engineering & Science, 20 (1999)

**B. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (*Proceedings*) basılan bildiriler :**

1. **(Davetli Açılış Konuşması)** H.Göçmez, M.Tuncer, C. Soykan, H. Yurdakul, C.Duran “The Preparation of Low Lead Contenting Organic-Inorganic Perovskite Solar Cells”7. Uluslararası Malzeme Bilimi ve Teknoloji Konferansı (Romanya), RoMat, 2018
2. **(Davetli Konuşmacı)** H. Göçmez, Ç. B. İyi “The Assessment of Novel Vanadium Diboride Anodic Materials for Air Battery Applications” the 15th international conference on advance materials, IUMRS-ICAM, Kyoto-Japonya, 2017
3. S.Aksan, H.Göçmez, M.Tuncer, C.Duran " BaTiO3 Powder Synthesis By Citrate Gel Method"International Materials Technologies And Metallurgy Conference, Istanbul-Türkiye, 2017
4. S.Aksan, H.Göçmez "Calculations Photovoltaic Properties of TiO2 By Using DFT Methods" 2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC’17), Kapadokya-Türkiye, 2017.
5. S. Cetin, H. Gocmez, M. Tuncer “The preparation of TiO2-Nb2O5 photoelectrode by gel and supercritical solution methods for dye sensitized solar cell” 2. International Conference on Material Science and Technology, Kapadokya-Türkiye, 2017.
6. S. Cetin, H. Gocmez, M. Tuncer “The synthesis of nanocrystalline vanadium dioxide electrode for solar cell application” 2. International Conference on Material Science and Technology, Kapadokya-Türkiye, 2017.
7. A. Yurdakul, H. Gocmez, H. Yurdakul, “Micro to Atomic Scale Observations on Nano-sized Y-TZP Powder Produced by One-Step Hydrothermal Route”, Nanotech France 2016- International Nanotechnology Conference, Fransa, 2016.
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9. Acikbas, G., Göcmez, H., Effect of Glass Fiber Waste Content on Polyester Matrix Composites, 1st International Black Sea Congress on Environmental Sciences, 31 Ağustos-3 Eylül 2016, Giresun-Türkiye
10. Açıkbaş G., Göçmez H., Polyester Matrix Composites Containing Marble Waste. International Porous and Powder Materials Symposium And Exhibition, 2015, İzmir-Türkiye.
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15. M.Tuncer, R. Richard, V. Atakan, H.Gocmez, “Nanosize BaTiO3 Formation from Barium Titanyl Oxalate (BTO) Precursor under Hydrothermal Conditions” 6th International Conference on Nanomaterials - Research & Application November 5th - 7th 2014
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**C. Düzenlenen uluslararası sempozyum, kongre ve konferanslar**

**C1**.International Conference on Oxide Materials for Electronic Eng. (OMEE-2014), Lviv,

Ukranya, 2014.

**C2**. Özel oturum “Ceramic Powders” 7th International Powder Metallurgy Conference & Exhibitio,

Ankara, Türkiye, 2014.

**C3**.VIII. Ceramic Congress of Turkey, Afyon, Türkiye,, 2012.

**C4.**International Ceramic Congress (ICC3), Osaka, Japonya, 2010.

Symposium 3: Nano-Crystals and Advanced Powder Technology

**C5**.1st Euroasia Ceramic Congress, Kutahya, Türkiye,, 2010.

**C6**.International Ceramic, Glass, Enamels Congress (Seres’09), Eskisehir, Türkiye, 2009