

# RESUME



## **A) Information**

**Name and Surname** : Prof.Dr.Gultekin GOLLER  
**Date of Birth and Place** : 12 September 1967 - Istanbul  
**Address** : Istanbul Technical University Chemical & Metallurgical Engineering Faculty - 34469 Maslak / Istanbul / Turkey  
**Phone Number** : +90 212 285 68 91  
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## **B) Academic Background**

<b>Degree</b>	<b>Fields</b>	<b>University</b>	<b>Year</b>
Undergraduate	Metallurgical Engineering	Istanbul Technical University	1989
Master Degree	Metallurgical Eng. Materials Science Programme	Istanbul Technical University	1992
PhD Degree	Metallurgical Eng. Materials Science Programme	Istanbul Technical University	1997
Assoc.Prof.Dr.	Metallurgical and Materials Eng.	Istanbul Technical University	2005
Professor	Metallurgical and Materials Eng.	Istanbul Technical University	2010

### **Research Fields:**

Ceramic and Composite Materials (ultra high temperature ceramics and composites, bioactive and bioinert ceramics and ceramic composites, polymeric matrix composites), Glass and Glass Ceramics, Biomaterials, Synthesis of High Technology Ceramic Powders, Plasma Spray Coating Process and Spark Plasma Sintering (SPS) Technique, Characterization of Materials (X-Ray and Electron Microscopy).

### **Master Thesis:**

Gultekin Goller, "Determination of boron carbide formation reaction conditions and powder characterization", M.S., Istanbul Technical University, Faculty of Chemical and Metallurgical Engineering, Metallurgy Engineering, 1992, Supervisor: Prof. Dr. Adnan Tekin

### **Ph.D Thesis:**

Gultekin Goller, "Wear and Friction Behavior of Metal Impregnated Microporous Carbon Composites", Ph.D., Istanbul Technical University, Faculty of Chemical and Metallurgical Engineering, Metallurgy and Materials Engineering, 1997, Supervisor: Prof. Dr. Adnan Tekin

## **C) Administrative and Academic Tasks:**

### **Academic Tasks:**

<b>Title</b>	<b>Place of Duty</b>	<b>Year</b>
Res.Asst.	Chemical & Metallurgical Engineering Faculty, ITU, Turkey	1989-1997
UNIDO -Scholar	Cleveland State University, Cleveland, ABD	1995-1996
Dr.Res.Asst.	Chemical & Metallurgical Engineering Faculty, ITU, Turkey	1997-1998
Asst.Prof.Dr.	Chemical & Metallurgical Engineering Faculty, ITU, Turkey	1998-2004
Assoc.Prof.Dr.	Chemical & Metallurgical Engineering Faculty, ITU, Turkey	2005-2010
Prof.Dr.	Chemical & Metallurgical Engineering Faculty, ITU, Turkey	2010-Cont.

### **Administrative Tasks:**

Metallurgical and Materials Eng. Dept.	ITU	Head of Department	2010-2013
Graduate School of Science, Metallurgical and Materials Eng. Dept.	ITU	Head of Department	2010-2013
Graduate School of Science, Engineering And Technology	ITU	Metallurgical and Materials Eng. Ph.D. / Program Coordinator	2010-2013
Graduate School of Science, Engineering And Technology	ITU	Ceramic Eng. Mas. Deg. / Program Coordinator	2008-2012
Prof.Dr.A.Tekin - Materials Science and Production Tech. Applied Research Center	ITU	Center Board Membership	2007-2012
Prof.Dr.A.Tekin - Materials Science and Production Tech. Applied Research Center	ITU	Board Membership	2007-2012
Chemical and Metallurgical Eng. Faculty	ITU	Member of Faculty Administrative Board	2006-2008
Chemical and Metallurgical Eng. Faculty	ITU	Member of Faculty Board	2006-2008
Metallurgical and Materials Eng. Dept.	ITU	Deputy Head of Dept.	2004-2007
Graduate School Of Science, Engineering And Technology	ITU	Member of Administrative Board For Ceramic Eng. Master Programme	2002-2008
Metallurgical and Materials Eng. Dept.	ITU	Industrial Relations and Training Committee	2001-2003
Metallurgical and Materials Eng. Dept.	ITU	Member of Informatics Committee	2001-2003
Metallurgical and Materials Eng. Dept.	ITU	Committee Member of Graduated Student Affair	2001-2003
Metallurgical and Materials Eng. Dept.	ITU	Quality and Accreditation Committee	2001-2003
Chemical and Metallurgical Eng. Faculty	ITU	Member of ITU News Committee	1998-2006

**Laboratories Established:**

1. Biomaterials Research and Characterization Laboratory, 2003.
2. Laser Cutting and Welding Laboratory, 2005.
3. Composite Materials Production Laboratory, 2008.
4. Spark Plasma Sintering Laboratory, 2008.

**Memberships:**

1. National Electron Microscopy Association
2. Turkish Ceramic Association
3. International Society of Materials in Medicine
4. The Minerals, Metals and Materials Society
5. The Romanian Society for Biomaterials

**Editorship:**

1. International Journal of Material Science and Research
2. Journal of the Australian Ceramic Society
3. The Open Ceramic Science Journal

**D) Supervised Master Thesis****Ongoing Master Thesis**

1. Berk Ozan, ITU Institute of Science and Technology, 2018—cont.
2. Oğuzhan Atmaca, ITU Institute of Science and Technology, 2018—cont.
3. Mert Coşkun, ITU Institute of Science and Technology, 2018—cont.
4. Yağmur Paşaoğlu, ITU Institute of Science and Technology, 2018—cont.
5. Ayberk Çetinbağ, ITU Institute of Science and Technology, 2018—cont.

**Completed Master Thesis**

1. Mustafa Yıldız, "Production and characterization of ZrC-TiC-1%CNT composites with additional variant amounts of gnp prepared by spark plasma sintering method", ITU Institute of Science and Technology, 2019.
2. Erdem Balcı, "Production and characterization of boron carbide - 3,5% carbon nanotube composites with additional variant amounts of graphene nanoplatelet prepared by SPS", ITU Institute of Science and Technology, 2019.
3. Mehmet Kahraman Özmen, "Production and characterization of lithium and tantalum added potassium sodium niobate piezoceramics via spark plasma sintering", ITU Institute of Science and Technology, 2018.

4. Burak Çağrı Ocak, "Production and characterization of titanium carbide and graphene nanoplatelets (GNP) reinforced zirconium carbide ceramics prepared by spark plasma sintering", ITU Institute of Science and Technology, 2016.
5. Cansinem Tüzemen, "Production and characterization of TZM based TiC or ZrC reinforced composites prepared by spark plasma sintering (SPS)", ITU Institute of Science and Technology, 2016.
6. Fatih Kirbıyık, "Production And Characterization of Al<sub>2</sub>O<sub>3</sub> / CYSZ Functionally Graded Thermal Barrier Coatings", ITU Institute of Science and Technology, 2016.
7. Can Burak Danisman, "Production and characterization of TZM alloys prepared by spark plasma sintering (SPS)" ITU Institute of Science and Technology, 2016.
8. Ayten Kubra Turkmen, "Production of Chitosan-Hydroxyapatite-Fibrinogen 3D Scaffold by Three Different Techniques", ITU Institute of Science and Technology, 2014.
9. Baris Yavas, "Production and Characterization of Monolithic and Reinforced B<sub>4</sub>C Ceramics Prepared by SPS", ITU Institute of Science and Technology, 2014.
10. Nilufer Metin, "Sintering and Characterization of Organic HAP powder", ITU Institute of Science and Technology, 2013.
11. Ramazan Burak Acicbe, "Production and Characterization of ZrC-TiC Composites by Spark Plasma Sintering Technique", ITU Institute of Science and Technology, 2012.
12. Sumbule Sagdic, "Production and Characterization of ZrC-SiC Composites by Spark Plasma Sintering", ITU Institute of Science and Technology, 2012.
13. Betul Zeynep Bilgic, "Protuction And Characterization of Al<sub>2</sub>O<sub>3</sub> - ZrO<sub>2</sub> - CeO<sub>2</sub> Composites by Spark Plasma Sintering (SPS)", ITU Institute of Science and Technology, 2012.
14. Ozden Ormanci, "Production and Characterization of the Addition of TiO<sub>2</sub> on Alumina Zirconia Composites Prepared By Spark Plasma Sintering", ITU Institute of Science and Technology, 2012.
15. Fatih Denizalp, "Determination of Sintering Conditions and Characterization of High Purity Molybdenum Powder by Spark Plasma Sintering", ITU Institute of Science and Technology, 2012.
16. Elif Yilmaz, "Production and Characterization of the Addition of Cerium Oxide on Aluminum - Zirconia Composites Prepared by SPS", ITU Institute of Science and Technology, 2011.
17. Zeynep Derelioglu, "Investigating the Ballistic Endurance of Al<sub>2</sub>O<sub>3</sub> and Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub> Coated Ceramic Plates", ITU Institute of Science and Technology, 2010.
18. Canhan Sen, "Production and characterization of potassium sodium niobate ceramics prepared by spark plasma sintering", ITU Institute of Science and Technology, 2010.
19. Levent Vural, "Characterization of hard ferrite and NdFeB magnets and the effect of irreversible losses on the structure of magnets", ITU Institute of Science and Technology, 2010.
20. Mehmet Mumtaz Dokur, "Production and Characterization of Carbon Fiber Reinforced Polymeric Matrix Composites", ITU Institute of Science and Technology, 2009.
21. Volkan Aydinol, "Modeling of atomic bonds using finite element method", ITU Institute of Science and Technology, 2008.
22. Berk Alkan, "Production of Indium Antimonid (Insb) Nano Wires by Using Electrolytic Alloy Plating Method", ITU Institute of Science and Technology, 2007.

23. Ugur Ceylan, "The Effect of Nucleating Agent (ZrO<sub>2</sub>) Addition on Crystallization Behaviour, Machinability of Potassium Mica and Flourapatite Containing Glass Ceramics and Bioactivity Characterization", ITU Institute of Science and Technology, 2007.
24. Batu Orbay, "Effects of TiO<sub>2</sub> Addition on the Crystallization Behaviour and Electrical Properties of the Potassium Mica-Cordierite Glass Ceramics", ITU Institute of Science and Technology, 2007.
25. Melis Arin, "Production and Characterization of ZrO<sub>2</sub> Ceramics To Be Used For Hip Prosthesis", ITU Institute of Science and Technology, 2007.
26. Ahmet Seçkiner, "Production and Characterization of Machinable Glass Ceramics Containing Different Rates of Potassium Mica and Cordierite", ITU Institute of Science and Technology, 2006.
27. Ipek Akin, "The Effect of Nucleating Agent (TiO<sub>2</sub>) Addition on Crystallization Behaviour, Machinability of Potassium Mica and Flourapatite Containing Glass Ceramics and Bioactivity Characterization", ITU Institute of Science and Technology, 2005.
28. Can Cekli, "The Crystallization Behaviour, Machinability and Bioactivity Characterization of Sodium-Potassium Mica and Flourapatite Containing Glass Ceramics", ITU Institute of Science and Technology, 2005.
29. Hande Demirkiran, "The Processing and Characterization of Bioglass Reinforced Hydroxyapatite Composites", ITU Institute of Science and Technology, 2003.
30. Derya Toykan, "The Processing and Characterization of Titanium Reinforced Hydroxyapatite Composites", ITU Institute of Science and Technology, 2003.
31. Tokay Yazıcı, "Characterization of Bioactive Glass Coating Produced by Plasma Spray Process", ITU Institute of Science and Technology, 2003.

## **E) Supervised Doctorate Thesis**

### **Ongoing Doctorate Thesis**

1. Mustafa Yıldız, ITU Institute of Science and Technology, 2019 – Cont.
2. Erdem Balcı, ITU Institute of Science and Technology, 2016 – Cont.
3. Burak Çağrı Ocak, ITU Institute of Science and Technology, 2016 – Cont.
4. Cansinem Tüzemen, ITU Institute of Science and Technology, 2016 – Cont.
5. Fatih Kırbıyık, ITU Institute of Science and Technology, 2016 – Cont.
6. Can Burak Danışman, ITU Institute of Science and Technology, 2016 – Cont.
7. Ayşen Aktürk, ITU Institute of Science and Technology, 2012 – Cont.

### **Completed Doctorate Thesis**

1. Baris Yavas, "Production and Characterization of B<sub>4</sub>C Reinforced TZM Alloy With Different Designs Prepared by Spark Plasma Sintering Method", ITU Institute of Science and Technology, 2020
2. Can Çekli, "Microstructural and Tribologic Characterization of Molybdenum-Molybdenum Carbide Structure Produced by Spark Plasma Sintering (SPS)", ITU Institute of Science and Technology, 2019
3. Özden Ormancı, "Production and characterization of zirconium carbide based composites prepared by spark plasma sintering", ITU Institute of Science and Technology, 2017

4. Mustafa Guven Gok, "Production of New Generation Thermal Barrier Coatings" Yeni Nesil Termal Bariyer Kaplamaların Üretimi ve Karakterizasyonu", ITU Institute of Science and Technology, 2015
5. Mehmet Mumtaz Dokur, "Production of Multilayer CYSZ / Al<sub>2</sub>O<sub>3</sub> AND CYSZ / Al<sub>2</sub>O<sub>3</sub>+YSZ Thermal Barrier Coatings and Determination of Thermal-Mechanical Properties", ITU Institute of Science and Technology, 2014.
6. Ipek Akin, "Production and characterization of ZrB<sub>2</sub> based composites prepared by spark plasma sintering", ITU Institute of Science and Technology, 2010.

## **F) Research and Development Project Tasks**

### **A- Public and Private Sector Projects**

1. A New Generation of Alumina/Zirconia Biocomposites for Dental and Orthopedic Implants: Production, Characterization and In Vitro/In Vivo Evaluation, TUBITAK, ITU-University of Oradea, Bilateral Project, Project Coordinator, 2014.
2. Production and Characterization of Ballistic B<sub>4</sub>C Ceramics Prepared by SPS, SAN-TEZ Project, Project Coordinator, 2014.
3. Determining Thermal-Mechanical Properties and Material Selection For Multilayer Thermal Barrier Coating Applications, TUBITAK, Project Coordinator, 2012.
4. New Acrylic Cements with Antimicrobial Activity for Dental and Orthopedic Implants, The Scientific and Technological Research Council of Turkey-The National Authority for Scientific Research of Romania, Project Coordinator, 2011.
5. Development of Materials/Processing Technologies for Heat Shield Applications, The Scientific and Technological Research Council of Turkey, Project Coordinator, 2010.
6. The research of chemical resonance energy transfer between photoproteins and flouresans proteins, TUBITAK, Project Coordinator, 2008.
7. Determination and optimization of CO<sub>2</sub> laser welding parameters of several alloys used in aircraft industry, GE Marmara Technology Center - Prof.Dr.Adnan Tekin Applied Research Center of Materials Science & Production Technologies, Project Coordinator, 2008.
8. Chemical characterization of tools used in gun production, Stoeger - Prof.Dr.Adnan Tekin Applied Research Center of Materials Science & Production Technologies, Project Coordinator, 2008.
9. Developing of high powered CO<sub>2</sub> laser systems for metallurgy and defence industry, State Planning Organization, Project Coordinator, 2006.
10. The processing of glasses for biomaterials, energy, float glass industry, State Planning Organization, Project Coordinator, 2006.
11. Developing of advanced materials from different raw materials, State Planning Organization, Co-Project Coordinator, 2003.
12. Improvement of bioactive glass coating technology by plasma spray process, State Planning Organization, Project Coordinator, 2003.
13. The processing of metal matrix composite, Cleveland State University, Advanced Manufacture Center, NASA and partial support of UNIDO, Researcher, 1996.
14. Strenthening R&D Capabilities in High Tech Ceramics at ITU, UNIDO Projesi DP-TUR 87-040, Researcher, 1996.
15. Strenthening R&D capabilities in high tech ceramics at ITU, UNIDO Project DP-TUR 87-040, Researcher, 1996.

16. Production of hi-tech ceramics, State Planning Organization, Researcher, 1992.
17. Lab scale boron carbide production by boric acid, Etibank, Researcher, 1990.

## B- Istanbul Technical University Research Foundation Projects

### Research Foundation Projects

1. Densification Behavior and Mechanical Properties of Spark Plasma Sintered ZrC-SiC and ZrC-SiC-CNT Composites, ITU Research Foundation, Project Coordinator, 2014.
2. The effect of CeO<sub>2</sub> addition on crystallization behavior of machinable glass ceramics, ITU Research Foundation, Project Coordinator, 2008.
3. Improvement of bioactive glass coating technology by plasma spray process, I.T.U Research Foundation, Project Coordinator, 2001.
4. The investigation of total quality management and ABET accreditation based continuous improvement conditions in metallurgical and materials engineering, I.T.U Research Foundation, Researcher, 2001.
5. Application of fundamental aspects of materials science to the computer media", I.T.U Research Foundation, Project Coordinator, 2001.

### Graduate Thesis Foundation Projects

1. Production and characterization B<sub>4</sub>C reinforced TZM alloys by Spark Plasma Sintering Method, 2017-cont.
2. Production and characterization of MnAl magnets by Spark Plasma Sintering Method, 2016-cont.
3. Sintering and characterization of TZM alloy by Spark Plasma Sintering Method, 2015-2016.
4. Production and characterization of ZrC based composites by Spark Plasma Sintering Method, 2014-cont.
5. Production and Characterization of new generation thermal barrier coatings, I.T.U Research Foundation, Project Coordinator, 2014-2015.
6. Production and characterization of chitosan-hydroxyapatite-fibrinogen 3D scaffolds by different techniques, I.T.U Research Foundation, Project Coordinator, 2014-2015
7. Microstructural and Tribological Characterization of Mo - Mo<sub>2</sub>C Produced with SPS, I.T.U Research Foundation, Project Coordinator, 2010-Cont.
8. Materials selection for multilayer thermal barrier coatings and determination of thermal-mechanical properties, I.T.U Research Foundation, Project Coordinator, 2011-2014.
9. Production and Characterization of Monolithic and Reinforced B<sub>4</sub>C Ceramics Prepared by SPS, I.T.U Research Foundation, Project Coordinator, 2014.
10. Sintering and Characterization of Organic HAP powder, Proje Yürütücüsü, I.T.U Research Foundation, Project Coordinator, 2014.
11. Production and Characterization of the Addition of TiO<sub>2</sub> on Alumina Zirconia Composites Prepared By Spark Plasma Sintering, I.T.U Research Foundation, Project Coordinator, 2012.
12. Determination of Sintering Conditions and Characterization of High Purity Molybdenum Powder by Spark Plasma Sintering, I.T.U Research Foundation, Project Coordinator, 2012.

13. Production and Characterization of ZrC-SiC Composites by Spark Plasma Sintering, I.T.U Research Foundation, Project Coordinator, 2012.
14. Development of adhesion surface and characterization of alumina based ceramics used in ballistic applications, I.T.U Research Foundation, Project Coordinator, 2010.
15. Production and characterization of KNN Piezoceramics prepared by Spark Plasma Sintering (SPS) Technique, I.T.U Research Foundation, Project Coordinator, 2010.
16. Production and characterization of KNN type Piezoceramic nanowires prepared by Sol-Gel technique using anodic alumina nano template, I.T.U Research Foundation, Project Coordinator, 2010.
17. Production and characterization of ZrB<sub>2</sub> based composites prepared by Spark Plasma Sintering (SPS), I.T.U Research Foundation, Project Coordinator, 2010.
18. Production and characterization of the addition of CeO<sub>2</sub> on Alumina-Zirconia composites prepared by spark plasma sintering, I.T.U Research Foundation, Project Coordinator, 2010.
19. Characterization of hard ferrite and NdFeB magnets used in engine parts and the effect of irreversible losses on the structure of magnets, I.T.U Research Foundation, Project Coordinator, 2010.
20. Production and characterization of carbon fiber reinforced polymeric matrix composites, I.T.U Research Foundation, Project Coordinator, 2010.
21. Characterization and effect of ceramic to impact behaviours of functionally graded Alumina-Zirconia coating on alumina substrate by plasma spray method, I.T.U Research Foundation, Project Coordinator, 2009.
22. The effect of nucleating agent (ZrO<sub>2</sub>) addition on crystallization behaviour, machinability of potassium mica and fluorapatite containing glass ceramics and bioactivity characterization, I.T.U Research Foundation, Project Coordinator, 2007
23. Effects of nucleating agent (TiO<sub>2</sub>) addition on crystallization behavior and electrical properties of machinable glass ceramics containing potassium mica and cordierite, I.T.U Research Foundation, Project Coordinator, 2007.
24. Production and characterization of Zirconia ceramics and composites, I.T.U Research Foundation, Project Coordinator, 2007.
25. Production of Bioactive glass coating by plasma method and characterization, I.T.U Research Foundation, Project Coordinator, 2003.
26. Development of hydroxapatite-titanium composites, I.T.U Research Foundation, Project Coordinator, 2003.
27. Development of hydroxapatite-titanium composites, 2003.

### **G) Awards**

1. Excellence Award for Relevant Contribution into the Field of Materials Science and Engineering, 7th International Conference on Materials Science and Technologies (ROMAT 2018), 2018
2. Excellence Award, Bucharest Polytechnic University (1818), Materials Science and Engineering Faculty, 2016
3. Honorary Membership of Romanian Society of Biomaterials-SRB, The Romanian Society for Biomaterials, BIOREMED'15
4. United Nations Industrial Development Organization - Scholarship



## **H) Teaching**

Akademic Year	Semester	Course	Credit	Number of students
			Theoretical	
2017-2018	Spring	Biyomalzemeler	3 + 0	30
		Introduction to Biomaterials	2 + 0	120
		Bioceramics	3 + 0	5
2017-2018	Fall	Malzeme Biliminin Temelleri	2 + 1	81
		Fund.of Materials Science	2 + 1	84
2018-2019	Spring	Introduction to Biomaterials	2 + 0	18
		Biyomalzemeler	3 + 0	127
2018-2019	Fall	Malzeme Biliminin Temelleri	2 + 1	94
		Malzeme Bilimi I	3 + 0	86
		Malzeme Karakterizasyon Metotları	2 + 1	78

## **PUBLICATIONS**

**Total Citation: 1540**

**h-index: 22**

### **Articles Published in International Peer-Review Periodicals (SCI)**

1. Akturk A, Taygun ME, Goller G, "Optimization of the electrospinning process variables for gelatin/silver nanoparticles/bioactive glass nanocomposites for bone tissue engineering", *Polymer Composites*, (2020).
2. Akturk A, Guler FK, Taygun ME, Goller G, Kucukbayrak S "Synthesis and antifungal activity of soluble starch and sodium alginate capped copper nanoparticles", *Materials Research Express*, 6 12, (2020).
3. Cekli C, Goller G "Microstructural and tribological characterization of molybdenum-molybdenum carbide structures produced by spark plasma sintering", *International Journal of Materials Research*, 110 11 1039-1046, (2019).
4. Tecu C, Antoniac L, Goller G, Yavas B, Gheorghe D, Antoniac A, Ciuca I, Semenecu A, Raiciu AD, Cristescu I "The Sintering Behaviour and Mechanical Properties of Hydroxyapatite - Based Composites for Bone Tissue Regeneration", *MAteriale Prastice*, 56 3 644-648, (2019).
5. Balazsi C, Ben Zine HR, Furko M, Czigany Z, Almasy L, Ryukhtin V, Murakami H, Goller G, Yucel O, Sahin FC, Balazsi K, Kobayashi S, Horvath A, "Microstructural and magnetic characteristics of ceramic dispersion strengthened sintered stainless steels after thermal ageing", *Fusion Engineering and Design*, 145 46-53, (2019).
6. Tuzemen C, Yavas B, Akin I, Yucel O, Sahin F, Goller G, "Production and Characterization of TZM Based TiC or ZrC Reinforced Composites Prepared by Spark Plasma Sintering (SPS)", *International Journal of Refractory Metals and Hard Materials*, 781 433-439, (2019).

7. Akin I, Ocak BC, Sahin F, Goller G, "Effects of SiC and SiC-GNP additions on the mechanical properties and oxidation behavior of NbB<sub>2</sub>", *Journal of Asian Ceramic Societies*, 7 2 170-182, (2019).
8. Akturk A, Taygun ME, Guler FK, Goller G, Kucukbayrak S, "Fabrication of antibacterial polyvinylalcohol nanocomposite mats with soluble starch coated silver nanoparticles", *Colloids and Surfaces A-Physicochemical and Engineering Aspects*, 562, 255-262, (2019)
9. Yavas B, Goller G, "A novel approach to boriding of TZM by spark plasma sintering method", *International Journal of Refractory Metals and Hard Materials*, 78 273-281, (2019).
10. Ocak BC, Yavas B, Akin I, Sahin F, Goller G, "Spark plasma sintered ZrC-TiC-GNP composites: Solid solution formation and mechanical properties" *Ceramic International*, 44 [2] 2336-2344 (2018)
11. Kirbiyik F, Gok MG, Goller G, "Microstructural, mechanical and thermal properties of Al<sub>2</sub>O<sub>3</sub>/CYSZ functionally graded thermal barrier coatings", *Surface&Coating Technology*, 329 193-201 (2017)
12. Ozden OO, Goller G, "Spark plasma sintering and characterization of ZrC-TiB<sub>2</sub> composites" *Ceramics International*, 43 [11] 8475-8481, (2017).
13. Gok MG, Goller G, "Microstructural characterization of GZ/CYSZ thermal barrier coatings after thermal shock and CMAS+hot corrosion test ", *Journal of the European Ceramic Society*, 37 [6] 2501-2508, (2017).
14. Danisman CB, Yavas B, Yucel O, Sahin F, Goller G, "Processing and characterization of spark plasma sintered TZM alloy", *Journal of Alloys and Compounds*, 685 860-868, (2016)
15. Yavas B, Goller G, "Investigation the effect of B<sub>4</sub>C addition on properties of TZM alloy prepared by spark plasma sintering", *International Journal of Refractory Metals and Hard Materials*, 58 182-188, (2016).
16. Gok MG, Goller G, "Production and characterisation of GZ/CYSZ alternative thermal barrier coatings with multilayered and functionally graded designs", *Journal of the European Ceramic Society*, 36 [7] 1755-1764, (2016).
17. Turkmen AK, Cavalu S, Goller G, "Development of Chitosan-Hydroxyapatite-Fibrinogen 3D Scaffolds For Bone Tissue Regeneration", *Journal of the Australian Ceramic Society*, 52 [1] 34-41, (2016).
18. Gok MG, Goller G, "Microstructural evaluation of laser remelted gadolinium zirconate thermal barrier coatings", *Surface and Coatings Technology*, 276 202-209, (2015).
19. Cengiz M, Ozer SC, Buyuk B, Tugrul AB, Yucel O, Goller G, Sahin FC, "Processing, Mechanical and Nuclear Characterization of Boron Carbide Ceramics Consolidated by Spark Plasma Sintering", *Acta Physica Polonica A*, 128 B187-B189, (2015).
20. Buyuk B, Tugrul AB, Cengiz M, Yucel O, Goller G, Sahin FC, "Radiation Shielding Properties of Spark Plasma Sintered Boron Carbide-Aluminium Composites", *Acta Physica Polonica A*, 128 B132-B134, (2015).

21. Utku FS, Seckin E, Goller G, Tamerler C, Urgen M, "Electrochemically designed interfaces: Hydroxyapatite coated macro-mesoporous titania surfaces", *Applied Surface Science*, 350 62-68, (2015).
22. Yavas B, Sahin F, Yucel O, Goller G, "Effect of particle size, heating rate and CNT addition on densification, microstructure and mechanical properties of B<sub>4</sub>C ceramics", *Ceramics International*, 41 [7] 8936-8944, (2015).
23. Utku FS, Yuca E, Seckin E, Goller G, Karatas AY, Urgen M, Tamerler C, "Protein-mediated hydroxyapatite composite layer formation on nanotubular titania", *Bioinspired, Biomimetic and Nanobiomaterials*, 4 [2] 155-165, (2015).
24. Dokur MM, Goller G, "Processing and Characterization of CYSZ/Al<sub>2</sub>O<sub>3</sub> and CYSZ/Al<sub>2</sub>O<sub>3</sub> + YSZ Multilayered Thermal Barrier Coatings", *Surface and Coatings Technology*, [258] 804-813, (2014).
25. Turan A, Sahin FC, Goller G, Yucel O, "Spark plasma sintering of monolithic TiB<sub>2</sub> ceramics", *Journal of Ceramic Processing Research*, 15 [6] 464-468, (2014).
26. Utku FS, Seckin E, Goller G, Tamerler C, Urgen M, "Carbonated hydroxyapatite deposition at physiological temperature on ordered titanium oxide nanotubes using pulsed electrochemistry", *Ceramics International Part A*, 40 [10] 15479-15487, (2014).
27. Cavalu S, Ratiu C, Ponta O, Simon V, Rugina D, Miclaus V, Akin I, Goller G, "Improving Osseointegration of Alumina/Zirconia Ceramic Implants by Fluoride Surface Treatment", *Digest Journal of Nanomaterials and Biostructures*, 9 [2] 797-808, (2014).
28. Ormanci O, Akin I, Sahin F, Yucel O, Simon V, Cavalu S, Goller G, "Spark Plasma Sintered Al<sub>2</sub>O<sub>3</sub>-YSZ-TiO<sub>2</sub> Composites: Processing, Characterization and In Vivo Evaluation", *Materials Science and Engineering: C*, [40] 16-23 (2014).
29. Sagdic S, Goller G, "Densification Behavior and Mechanical Properties of Spark Plasma Sintered ZrC-SiC and ZrC-SiC-CNT Composites", *Journal of the Australian Ceramics Society*, 50 [2], 76 - 82, (2014).
30. Cavalu S, Banica F, Simon V, Akin I, Goller G, "Surface Modification of Alumina/Zirconia Ceramics Upon Different Fluoride-Based Treatments" *Journal of Applied Ceramic Technology*, 11 [2], 402-411, (2014).
31. Cengiz M, Yavas B, Celik Y, Goller G, Yucel O Sahin FC, "Spark Plasma Sintering of Boron Carbide Ceramics Using Different Sample Geometries and Dimensions", *Acta Physica Polonica A*, 125 [2] 260-262, (2014).
32. Unlu MD, Goller G, Yucel O, Cinar FC, "Processing and mechanical characterisation of monolithic silicon carbide ceramic consolidated by spark plasma sintering (SPS)", *International Journal of Materials Research*, 104 [12] 1240-1246, (2013).
33. Zumurut Z, Polat D, Akin I, Keles O, Goller G, "Bioactivity Characterization and a Full Factorial Design on the Adhesive Strength of Air Plasma Sprayed HA-TiO<sub>2</sub> Coated Ti", *Journal of The Australian Ceramic Society*, 49 [2] 95-103, (2013).
34. Turp V, Sen D, Tuncelli B, Goller G, Özcan M, "Evaluation of air-particle abrasion of Y-TZP with different particles using microstructural analysis", *Australian Dental Journal*, 58 [2] 183-191 (2013).

35. Gergely G, Sahin FC, Goller G, Yücel O, Balazsi C, "Microstructural and mechanical investigation of hydroxyapatite-zirconia nanocomposites prepared by spark plasma sintering" *Journal of the European Ceramic Society*, 33 [12] 2313-2319 (2013).
36. Akdogan V, Dokur M.M, Goller G, Keles O, "Surface Modification of Thermal Barrier Coatings by Single-Shot Defocused Laser Treatments", *Journal of Materials Engineering and Performance*, ISSN: 1059-9495, Springer US, (2013).
37. Cavalu S, Banica F, Gurian C, Vanea E, Goller G, Simon V, "Microscopic and spectroscopic Investigation of bioactive glasses for antibiotic controlled release" *Journal of Molecular Structure*, 1040 [ ] 1160-1663 (2013).
38. Acicbe RB, Goller G, "Densification behavior and mechanical properties of spark plasma-sintered ZrC-TiC and ZrC-TiC-CNT composites" *Journal of Materials Science*, 48 [6] 2388-2393 (2013).
39. Odabasi A, Unlu N, Goller G, Kayali ES, Eruslu MN, "Assessment of the effects of heat input on microstructure and mechanical properties in laser beam welded Haynes 188 undermatched joints" *Materials Science & Engineering*, 559A [ ] 731-741 (2013).
40. Sahin FC, Apak A, Akin I, Kanbur HE, Genckan DH, Turan A, Goller G, Yucel O, "Spark plasma sintering of B<sub>4</sub>C-SiC composites" *Solid State Sciences*, 14 [11-12] 1660-1663 (2012).
41. Gogtas C, Unlu N, Odabasi A, Sezer L, Guner S, Goller G, Eruslu MN, "Effects of firing temperature on the physical properties of a bauxite-based refractory castable" *Refractories and Industrial Ceramics*, 53 [1] 19-25 (2012).
42. Vulpoi A, Gruian C, Vanea E, Baia L, Simon S, Steinhoff HJ, Goller G, Simon V, "Bioactivity and protein attachment onto bioactive glasses containing silver nanoparticles", *Journal of Biomedical Materials Research Part A*, 100A [5] 1179-1186 (2012).
43. Akin I, Goller G, "Mechanical and oxidation behavior of spark plasma sintered ZrB<sub>2</sub>-ZrC-SiC composites", *Journal of the Ceramic Society of Japan*, 120 [4] 1-7 (2012).
44. Turp V, Tuncelli B, Deniz S, Goller G, "Evaluation of hardness and fracture toughness, coupled with microstructural analysis, of zirconia ceramics stored in environments with different pH values", *Dental Materials Journal*, 31 [6] 891-902, (2012).
45. Akin I, Yilmaz E, Sahin F, Yucel O, Goller G, "Effect of CeO<sub>2</sub> addition on densification and microstructure of Al<sub>2</sub>O<sub>3</sub>-YSZ composites", *Ceramics International*, 37 [8] 3273-3280 (2011).
46. Turp V, Sen D, Poyrazoglu E, Tuncelli B, Goller G, "Influence of zirconia base and shade difference on polymerization efficiency of dual-cure resin cement" *Journal of Prosthodontics-Implant Esthetic and Reconstructive Dentistry*, 20 [5] 361-365 (2011).
47. Kaftelen H, Unlu N, Goller G, Ovecoglu ML, Henein H, "Comparative processing-structure-property studies of Al-Cu matrix composites reinforced with TiC particulates" *Composites Part A-Applied Science and Manufacturing*, 42 [7] 812-824 (2011).
48. Sen C, Alkan B, Akin I, Yucel O, Sahin F, Goller G, "Microstructure and ferroelectric properties of spark plasma sintered Li substituted K<sub>0.5</sub>Na<sub>0.5</sub>NbO<sub>3</sub> ceramics", *Journal of the Ceramic Society of Japan*, 119 [1389] 355-361 (2011).

49. Cavalu S, Simon V, Goller G, Akin I, "Bioactivity and antimicrobial properties of PMMA/Ag<sub>2</sub>O acrylic bone cement collagen coated", *Digest Journal of Nanomaterials and Biostructures*, 6 [2] 779-790 (2011).
50. Karacik Z, Genc SC, Esenli F, Goller G, "The Gumuldur fire opal: mode of occurrence and mineralogical aspects", *Turkish Journal of Earth Sciences*, 20 [1] 99-114 (2011).
51. Odabasi A, Unlu N, Goller G, "Laser beam welding of Haynes 188", *TMS 2010 139<sup>th</sup> Annual Meeting & Exhibition-Supplemental Proceedings*, 3, 649-656 (2010).
52. Ceylan U, Akin I, Goller G, "The effect of zirconia addition on crystallization behaviour and machinability of potassium mica and fluorapatite glass-ceramics", *High Temperature Materials and Processes*, 29 [4] 305-311 (2010).
53. Odabasi A, Unlu N, Goller G, Eruslu N, "A Study on Laser Beam Welding (LBW) Technique: Effect of Heat Input on the Microstructural Evolution of Superalloy Inconel 718", *Metallurgical and Materials Transactions A-Physical Metallurgy and Materials Science*, 41A [9] 2357-2365 (2010).
54. Taslicukur Z, Sahin FC, Goller G, Yucel O, Kuskonmaz N, "Spark plasma sintering of Si<sub>3</sub>N<sub>4</sub>/C composites", *Materials Testing-Materials and Components Technology and Application*, 52 [6] 374-378 (2010).
55. Gogtas C, Unlu N, Odabasi A, Sezer L, Cinar F, Guner S, Goller G, Eruslu N, "Preparation and characterisation of self-flowing refractory material containing 971U type microsilica", *Advances in Applied Ceramics*, 109 [1] 6-11 (2010).
56. Orbay B, Goller G, "Effect of TiO<sub>2</sub> addition on crystallization behavior of potassium mica-cordierite based glass ceramics", *High Temperature Materials and Processes*, 28 [4] 211-216 (2009).
57. Akin I, Goller G, "Effect of CeO<sub>2</sub> addition on crystallization behavior, bioactivity and biocompatibility of potassium mica and fluorapatite based glass ceramics", *Journal of the Ceramic Society of Japan*, 117 [7] 787-797 (2009).
58. Akin I, Hotta M, Sahin F C, Yucel O, Goller G, Goto T, "Microstructure and densification of ZrB<sub>2</sub>-SiC composites prepared by spark plasma sintering", *Journal of the European Ceramic Society*, 29 [11] 2379-2385 (2009).
59. Arin M, Yazici H, Goller G, "Biocompatibility properties of ZrO<sub>2</sub> ceramics and ZrO<sub>2</sub>-TiN composites", *Bioceramics 21 Book Series, Key Engineering Materials*, 396-398 51-54 (2009).
60. Gunduz O, Ozyegin LS, Dorozhkin S, Meydanoglu O, Eruslu N, Kayali ES, Goller G, Agathopoulos S, Oktar FN, "Bovine hydroxyapatite (BHA) strontium oxide composites", *Bioceramics 21 Book Series, Key Engineering Materials*, 396-398 407-410 (2009).
61. Odabasi A, Unlu N, Goller G, Eruslu N, "Influence of heat input on microstructure and mechanical properties of laser beam welded superalloy INCONEL 718", *TMS 2009 138<sup>th</sup> Annual Meeting & Exhibition - Supplemental Proceedings*, 3 529-536 (2009).
62. Seckiner A, Goller G, "Production and characterization of machinable glass ceramics containing different amounts of potassium mica and cordierite", *High Temperature Materials and Processes*, 27 [4] 257-268 (2008).

63. Goller G, Akin I, "Effect of CeO<sub>2</sub> addition on in-vitro bioactivity properties of K-Mica-Fluorapatite based glass ceramics", *Bioceramics 20, PTS 1 and 2 Book Series, Key Engineering Materials*, 361-363 [1-2] 261-264 (2008).
64. Gunduz O, Salman S, Kayali ES, Goller G, Goker I, Agathopoulos S, Ozyegin LS, Oktar FN, "Improvement of microstructure of bovine hydroxyapatite (BHA) with machineable fluorapatite glass (MFG)", *Bioceramics 20, PTS 1 and 2 Book Series, Key Engineering Materials*, 361-363 [1-2] 495-498 (2008).
65. Arin M, Vleugels J, Vanmeensel K, Goller G, "Effect of different stabilizer addition on preparation and hydrothermal stability of ZrO<sub>2</sub>-TiN composites with varying TiN content", *Bioceramics 20, Pts 1 and 2 Book Series, Key Engineering Materials*, 361-363 [1-2] 795-798 (2008).
66. Arin M, Goller G, Vleugels J, Vanmeensel K, "Production and characterization of ZrO<sub>2</sub> ceramics and composites to be used for hip prosthesis", *Journal of Materials Science*, 43 [5] 1599-1611 (2008).
67. Goller G, Cekli C, Akin I, Demirkesen E, "In-vitro bioactivity characterization of sodium-potassium mica and fluorapatite containing glass ceramics", *Bioceramics 19, Pts 1 and 2 Book Series, Key Engineering Materials*, 330-332 [1-2] 185-188 (2007).
68. Oktar FN, Agathopoulos S, Goller G, Gokce H, Kayali ES, Salman S, "Highly bioactive porous composite scaffolds of bovine hydroxyapatite (BHA-Ti, BHA-TiO<sub>2</sub>, BHA-Li<sub>2</sub>O)", *Bioceramics 19, Pts 1 and 2 Book Series, Key Engineering Materials*, 330-332, 411-414 (2007).
69. Akin I, Goller G, "Effect of TiO<sub>2</sub> addition on crystallization and machinability of potassium mica and fluorapatite glass ceramics", *Journal of Materials Science*, 42 [3] 883-888 (2007).
70. Oktar FN, Aydin H, Goller G, Agathopoulos S, Rocha G, Sennaroglu B, Kayali ES, "Influence on sintering temperature on mechanical properties of biologically derived hydroxyapatite bodies", *Bioceramics 18, Pts 1 and 2 Book Series, Key Engineering Materials*, 309-311 [1-2] 45-48 (2007).
71. Oktar FN, Yetmez M, Agathopoulos S, Goerne TML, Goller G, Ipeker, I, Ferreira JMF, "Bond-coating in plasma-sprayed calcium-phosphate coatings", *Journal of Materials Science: Materials in Medicine*, 17 [11] 1161-1171 (2006).
72. Goller G, Akin I, Eruslu N, Kayali ES, "In-vitro bioactivity characterization of K-mica-fluorapatite based glass-ceramics containing varying amount of TiO<sub>2</sub> addition", *Bioceramics 18, Pts 1 and 2 Book Series, Key Engineering Materials*, 309-311 [1-2] 321-324 (2006).
73. Goller G, Akin I, Kahraman A, Demirkesen E, Urgen M, "In-vitro bioactivity characterization of machinable glass-ceramics containing 85wt% Na-mica and 15wt% fluorapatite", *Bioceramics 18, Pts 1 and 2 Book Series, Key Engineering Materials*, 309-311 [1-2] 325-328 (2006).
74. Oktar FN, Meydanoglu O, Goller G, Agathopoulos S, Rocha G, Ozyegin S, Eruslu N, Peker I, Kayali ES, "Sintering effects on mechanical properties of hydroxyapatite-titanium dioxide (HA-TiO<sub>2</sub>) composites", *Bioceramics 18, Pts 1 and 2 Book Series, Key Engineering Materials*, 309-311 [1-2] 355-358 (2006).
75. Oktar FN, Valerio P, Goller G, Agathopoulos S, Goes AM, Leite MF, "Biocompatibility of outer prismatic and the inner nacreous layers of four different molluscs", *Bioceramics*

- 18, Pts 1 and 2 Book Series, *Key Engineering Materials*, 309–311 [1-2] 449-452 (2006).
76. Valerio P, Oktar FN, Goller G, Ozyegin S, Shainberg APM, Goes AM, Leite MF, "Biocompatibility evaluation of lithium-hydroxyapatite composites", *Bioceramics* 18, Pts 1 and 2 Book Series, *Key Engineering Materials*, 309-311 [1-2] 1121-1124 (2006).
77. Goller G, Oktar FN, Agathopoulos S, Tulyaganov DU, Ferreira JMF, Kayali ES, Peker I, "Effect of sintering temperature on mechanical and microstructural properties of bovine hydroxyapatite (BHA)", *Journal of Sol-Gel Science and Technology*, 37(2) 111–115 (2006).
78. Goller G, Oktar FN, Agathopoulos S, Tulyaganov DU, Ferreira JMF, Kayali ES, Peker I, "The influence of sintering temperature on mechanical and microstructural properties of bovine hydroxyapatite", *Bioceramics* 17, Pts 1 and 2 Book Series, *Key Engineering Materials*, 284-286 325–328 (2005).
79. Sampaio BV, Goller G, Oktar FN, Valerio P, Goes AM, Leite MF, "Evaluation of osteoblast viability, alkaline phosphatase production and collagen secretion in the presence of hydroxyapatite reinforced with oxide glasses", *Bioceramics* 17, Pts 1 and 2 Book Series, *Key Engineering Materials*, 284-286 777–780 (2005).
80. Sampaio BV, Goller G, Oktar FN, Valerio P, Goes AM, Leite MF, "Biocompatibility evaluation of three different titanium-hydroxyapatite composites", *Bioceramics* 17, Pts 1 and 2 Book Series, *Key Engineering Materials*, 284-286 639–642 (2005).
81. Oktar FN, Genc Y, Goller G, Agathopoulos S, Tulyaganov DU, Ferreira JMF, Kayali ES, Salman S, "The influence of sintering temperature on the properties of composites of biologic hydroxyapatite and zirconia", *Bioceramics* 17, Pts 1 and 2 Book Series, *Key Engineering Materials*, 284-286 709–712 (2005).
82. Oktar FN, Goller G, Ozyegin LS, Erkmen EZ, Toykan D, Demirkiran H, Haybat H, "A promising load carrier grafting material; Sintered enamel hydroxyapatite bodies", *EURO CERAMICS VIII*, Pts 1-3 Book Series: *Key Engineering Materials*, 264-268 [1-3] 709–712 (2004).
83. Genc Y, Oktar FN, Erkmen EZ, Goller G, Toykan D, Haybat H, "Sintering effect on mechanical properties of enamel derived and synthetic hydroxyapatite-zirconia composites", *EURO CERAMICS VIII*, Pts 1-3 Book Series: *Key Engineering Materials*, 264-268 [1-3] 1961–1964 (2004).
84. Goller G, Yazici T, Oktar FN, Demirkesen E, Kayali ES, "Analysis of in-vitro reaction layers formed on plasma sprayed bioglass-titanium coatings", *EURO CERAMICS VIII*, Pts 1-3 Book Series: *Key Engineering Materials*, 264-268 [1-3] 1973–1976 (2004).
85. Oktar FN, Genc Y, Goller G, Erkmen EZ, Ozyegin LS, Toykan D, Demirkiran H, Haybat H, "Sintering of synthetic hydroxyapatite compacts", *EURO CERAMICS VIII*, Pts 1-3 Book Series: *Key Engineering Materials*, 264-268 [1-3] 2087–2090 (2004).
86. Goller G, Oktar FN, Ozyegin LS, Kayali ES, Demirkesen E, "Plasma-sprayed human bone-derived hydroxyapatite coatings: effective and reliable", *Materials Letters*, 58[21], 2599-2604 (2004).
87. Ozyegin LS, Oktar FN, Goller G, Kayali ES, Yazici T, "Plasma sprayed bovine hydroxyapatite coatings", *Materials Letters*, 58 [21] 2605-2609 (2004).

88. Goller G, "The effect of bond coat on mechanical properties of plasma sprayed bioglass-titanium coatings", *Ceramics International*, 30 [3] 351-355 (2004).
89. Valerio P, Oktar FN, Goller G, Goes AM, Leite MF, "Evaluation of osteoblasts viability, alkaline phosphatase production and collagen secretion in the presence of TiHA", *Bioceramics 16 Book Series: Key Engineering Materials*, 254 [2] 777-780 (2004).
90. Valerio P, Oktar FN, Ozyegin LS, Goller G, Goes AM, Leite MF, "Biocompatibility evaluation of dentine, enamel and bone derived hydroxyapatite", *Bioceramics 16 Book Series: Key Engineering Materials*, 254 [2] 837-840 (2004).
91. Goller G, Demirkiran H, Oktar FN, Demirkesen E, "Processing and characterization of bioglass reinforced hydroxyapatite composites", *Ceramics International*, 29 [6] 721-724 (2003).
92. Demirkesen E, Goller G, "Effect of Al<sub>2</sub>O<sub>3</sub> additions on the acid durability of a Li<sub>2</sub>O-ZnO-SiO<sub>2</sub> glass and its glass-ceramic", *Ceramics International*, 29 [4] 463-469 (2003).
93. Goller G, Oktar FN, Yazici T, Gurmen S, Kayali ES, "Characterization of plasma sprayed bioglass coatings on titanium", *Bioceramics 15 Book Series: Key Engineering Materials*, 240 [2] 283-286 (2003).
94. Oktar FN, Goller G, Yetmez M, Toykan D, "Effects of bond-coatings on plasma sprayed calciumphosphate coatings", *Bioceramics 16 Book Series: Key Engineering Materials*, 240 [2] 315-318 (2003).
95. Goller G, Oktar FN, Toykan D, Kayali ES, "The improvement of titanium reinforced hydroxyapatite for biomedical applications", *Bioceramics 16 Book Series: Key Engineering Materials*, 240 [2] 619-622 (2003).
96. Goller G, Oktar FN, Demirkiran H, Demirkesen E, "Sintering effects on mechanical properties of bioglass reinforced hydroxyapatite composites", *Bioceramics 16 Book Series: Key Engineering Materials*, 240 [2] 939-942 (2003).
97. Sen D, Goller G, Issever H, "The effect of two polishing pastes on the surface roughness of bis-acryl composite and methacrylate-based resins", *Journal of Prosthetic Dentistry*, 88 [5] 527-532 (2002).
98. Goller G, Oktar FN, "Sintering effects on mechanical properties of biologically derived dentine hydroxyapatite", *Materials Letters*, 56 [3] 142-147 (2002).
99. Oktar FN, Goller G, "Sintering effects on mechanical properties of glass-reinforced hydroxyapatite composites", *Ceramics International*, 28 [6] 617-621 (2002).
100. Goller G, Oktar FN, "Effects of sintering on mechanical properties of biologically derived hydroxyapatite", *EURO CERAMICS VII, Pts 1-3 Book Series: Key Engineering Materials*, 206 [2] 1615-1619 (2002).
101. Goller G, Koty DP, Tewari SN, Singh M, Tekin A, "Wear and friction behavior of pressure infiltration cast copper-carbon composites", *Scandinavian Journal of Metallurgy*, 30 [2] 77-83 (2001).
102. Sen D, Poyrazoglu E, Tuncelli B, Goller G, "Shear bond strength of resin luting cement to glass-infiltrated porous aluminum oxide cores", *Journal of Prosthetic Dentistry*, 83 [2] 210-215 (2000).



103. Goller G, Koty DP, Tewari SN, Singh M, Tekin A, "Wear and friction behavior of metal impregnated microporous carbon composites", *Metallurgical and Materials Transactions A-Physical Metallurgy and Materials Science*, 27 [11] 3727-3738 (1996).
104. Goller G, Toy C, Tekin A, Gupta CK, "The production of boron carbide by carbothermic reduction", *High Temperature Materials and Processes*, 15 [1-2] 117-122 (1996).

#### **International Book Chapter Author**

1. Gok MG, Goller G, "State of the Art of Gadolinium Zirconate Based Thermal Barrier Coatings: Design, Processing and Characterization", *Coating Technology*, IntechOpen, (2019).
2. Akin I, Goller G, "Spark Plasma Sintering of Zirconia-Toughened Alumina Composites and Ultra-High Temperature Ceramics Reinforced with Carbon Nanotubes", *Research and Innovation in Carbon Nanotube-Based Composites*, The World Academic Publishing Co. Ltd, (2016).
3. Akin I, Goller G, "Processing Technologies for Bioceramic Based Composites", *Handbook of Bioceramics and Biocomposites*, Springer International Publishing, (2015).

#### **Articles Published in International Peer-Review Periodicals**

1. Cavalu S, Simon V, Banica F, Oswald I, Vanea E, Akin I, Goller G, "Spectroscopic evidence of collagen electrodeposition on acrylic bone cement", *Studia Universitatis Babeş-Bolyai Seria Chimia*, 56 [3] 27-33 (2011).
2. Simon V, Cavalu S, Akin I, Yucel O, Goller G, "XRD and FTIR investigation of zirconia-toughened alumina composites", *Studia Universitatis Babeş-Bolyai Seria Chimia*, 56 [1] 67-72 (2011).
3. Vanea E, Cavalu S, Banica F, Benyey Z, Goller G, Simon V, "Adsorption and release studies of tetracycline from a bioactive glass", *Studia Universitatis Babeş-Bolyai Seria Chimia*, 56 [3] 239-246 (2011).
4. Goller G, Cekli C, "The crystallization behaviour and machinability of sodium-potassium mica and fluorapatite containing glass-ceramics", *Journal of Australasian Ceramic Society*, 43(1) 9-17 (2007).
5. Abdulaliyev Z, Celik O, Goller G, Kayali ES, "Investigation of Forces and Stresses Acting on a Shoulder-Hand System Considering Strains in Muscles", *Turkish J. Eng. Env. Sci.*, 31 1-8 (2007).
6. Oktar FN, Goller G, Heybeli N, Varol R, "İnsan Dişi Kullanarak Gözenekli Biyoseramik Üretimi", *Journal of Arthroplasty and Arthroscopic Surgery* (2001).
7. Celiker C, Goller G, Gonul T, Tekin A, "Determination of Phases Formed in Hot Pressed B<sub>4</sub>C Plates by Electron Diffraction", *Turkish Journal of Medical Science*, 140 (1995).

## **Papers Submitted to International Meetings:**

1. Kaplan M, Yucel O, Akin I, Sahin F, Goler G, "Production and Characterization of Solid Solution (Zr,Ti)B<sub>2</sub> Ceramics by Spark Plasma Sintering", International Materials Technologies and Metallurgy Conference (MTM 2019), Turkey, 2019
2. Yıldız M, Yucel O, Akin I, Sahin F, Goler G, "Production and Characterization of ZrC-TiC-1%CNT Composites with Additional Varying Amounts of GNP Prepared By Spark Plasma Sintering Method", International Materials Technologies and Metallurgy Conference (MTM 2019), Turkey, 2019
3. Balci E, Yucel O, Akin I, Sahin F, Goler G, "Production and Characterization of Boron Carbide-3.5% Carbon Nanotube Composites with Additional Varying Amounts of Graphene Nanoplatelet Prepared by SPS", International Materials Technologies and Metallurgy Conference (MTM 2019), Turkey, 2019
4. Kirbiyik F, Goller G, "Determination of Laser Surface Modification Parameters for Functionally Graded Alumina/CYSZ Thermal Barrier Coating" International Materials Technologies and Metallurgy Conference (MTM 2019), Turkey, 2019
5. Ocak BC, Goller G, "Production and Characterization of Spark Plasma Sintered B<sub>4</sub>C-HEA Composites" International Materials Technologies and Metallurgy Conference (MTM 2019), Turkey, 2019
6. Yavas B, Goller G, "Improving High Temperature Properties of TZM by Novel Boriding Techniques" International Materials Technologies and Metallurgy Conference (MTM 2019), Turkey, 2019
7. Balci E, Yucel O, Akin I, Sahin F, Goler G, "Investigation the Effect of CNT and GNP Additions on Densification, Microstructure and Mechanical Properties of B<sub>4</sub>C Prepared by Spark Plasma Sintering", Materials Science & Technology, 2019 Conference & Exhibition (MS&T'19), USA, (2019).
8. Kirbiyik F, Goler G, "Processing of Laser Surface Modification of Functionally Graded Alumina/CYSZ Thermal Barrier Coating", Materials Science & Technology, 2019 Conference & Exhibition (MS&T'19), USA, (2019).
9. Ocak BC, Goler G, "Microstructural Observation and Mechanical Properties of B<sub>4</sub>C Based Composites Reinforced with CrCoFeMoNi High Entropy Alloy Prepared by Spark Plasma Sintering:", Materials Science & Technology, 2019 Conference & Exhibition (MS&T'19), USA, (2019).
10. Yavas B, Goler G, "A Novel Approach to Boriding of TZM by Spark Plasma Sintering Method", Materials Science & Technology, 2019 Conference & Exhibition (MS&T'19), USA, (2019).
11. Goler G, "Processing of ZrC Based Composites Prepared by Spark Plasma Sintering", 7th International Conference on Materials Science and Technologies – RoMAT 2018, Romania, (2018).
12. Yavas B, Goler G, "Investigation the Oxidation Resistance of TZM Alloy Prepared with Different B<sub>4</sub>C Reinforcement Techniques", 7th International Conference on Materials Science and Technologies – RoMAT 2018, Romania, (2018).
13. Ocak BC, Yavas B, Akin I, Sahin F, Goler G, "Investigation the Effect of TiC and GNP Reinforcements on Mechanical and Microstructural Properties of ZrC Composites", 7th

International Conference on Materials Science and Technologies – RoMAT 2018, Romania, (2018).

14. Yavas B, Goler G, "Investigation the Effects of Mo-Si-B and Mo-Si-Al Coatings on Oxidation Behavior of TZM Alloy Prepared by Spark Plasma Sintering", Materials Science & Technology, 2018 Conference & Exhibition (MS&T'18), USA, (2018).
15. Ocak BC, Yavas B, Akin I, Yucel O, Sahin F, Goler G, "Production and Characterization of Spark Plasma Sintered Hybrid GNT Reinforced ZrC-TiC composites", Materials Science & Technology, 2018 Conference & Exhibition (MS&T'18), USA, (2018).
16. Tuzemen C, Yavas B, Akin I, Gurmen S, Yucel O, Sahin F, Goler G, "Production and Characterization of TZM Based TiC or ZrC Reinforced Composites Prepared by Spark Plasma Sintering", Materials Science & Technology, 2018 Conference & Exhibition (MS&T'18), USA, (2018).
17. Bal E, Yavas B, Goller G, Sen D "Effects of Different Sintering Times and Temperatures on Strength and Adhesion of Zirconia Ceramic", 2nd Biennial International Conference on Biomaterials and Novel Technologies for Healthcare, Biomah, Italy, (2018).
18. Kose A, Gultekin P, Yavas B, Goller G, Sen D "The effects of different framework designs and different materials on fracture load of implant-supported single crowns after aging", 2nd Biennial International Conference on Biomaterials and Novel Technologies for Healthcare, Biomah, Italy, (2018).
19. Yavas B, Akin I, Yucel O, Sahin F, Goler G, "Investigation the Oxidation Resistance of TZM Alloy Prepared by Spark Plasma Sintering Method", IMMC 2018 19th International Metallurgy & Materials Congress, Turkey, (2018).
20. Ocak BC, Yavas B, Akin I, Yucel O, Sahin F, Goler G, "Effect of GNP-CNT (GNT) Addition on Properties of ZrC-TiC Composites Prepared by Spark Plasma Sintering", IMMC 2018 19th International Metallurgy & Materials Congress, Turkey, (2018).
21. Ocak BC, Sahin F, Goler G, Akin I, "Mechanical Properties and Oxidation Behavior of TiB<sub>2</sub>-GNP Composites", IMMC 2018 19th International Metallurgy & Materials Congress, Turkey, (2018).
22. Ozmen MK, Yavas B, Akin I, Yucel O, Sahin F, Goler G, "Investigation of Li Addition on Physical and Electrical Properties of KNN Ceramics via Spark Plasma Sintering", IMMC 2018 19th International Metallurgy & Materials Congress, Turkey, (2018).
23. Kirbiyik F, Goler G, "Comparative Study of CMAS and Hot Corrosion Behaviour of Single Layered and Functionally Graded Thermal Barrier Coatings", IMMC 2018 19th International Metallurgy & Materials Congress, Turkey, (2018).
24. Kacar M, Semercioz SM, Atay M, Guler AH, Aydogmus D, Yavas B, Akin I, Goller G, Yucel O, Sahin F "Investigation of Li Addition on Physical and Electrical Properties of KNN Ceramics via Spark Plasma Sintering", IMMC 2018 19th International Metallurgy & Materials Congress, Turkey, (2018).
25. Kaplan M, , Yucel O, Sahin F, Goler G, Akin I, "Reactive Spark Plasma Sintering of TaB<sub>2</sub> Ceramics", IMMC 2018 19th International Metallurgy & Materials Congress, Turkey, (2018).
26. Ocak BC, Yucel O, Sahin F, Goller G, " Effect of graphene addition on mechanical and thermal properties of ZrC-TiC composites prepared by spark plasma sintering" International Conference on Sintering 2017, Amerika, 2017

27. Kirbiyik F, Yucel O, Sahin F, Goller G, "Microstructural evaluation of spark plasma sintered (SPS) and atmospheric plasma sprayed (APS) CYSZ / bond coat thermal barrier coatings" International Conference on Sintering 2017, Amerika, 2017
28. Yavas B, Yucel O, Sahin F, Goller G "Effect of boriding on mechanical, thermal and oxidation properties of TZM alloy prepared by spark plasma sintering", International Conference on Sintering 2017, Amerika, 2017
29. Kirbiyik F, Goller G, "CMAS and hot corrosion resistance behavior of functionally graded Al<sub>2</sub>O<sub>3</sub>/CYSZ thermal barrier coatings" The 15th Conference & Exhibition of the European Ceramic Society (ECerS2017), Macaristan, 2017
30. Yavas B, Yucel O, Sahin F, Goller G, "Formation of molybdenum boride layers on TZM alloy by spark plasma sintering process" The 15th Conference & Exhibition of the European Ceramic Society (ECerS2017), Macaristan, 2017
31. Ocak BC, Sahin F, Goller G, Akin I, "Microstructure and mechanical properties of NbB<sub>2</sub>/SiC-GNP composites" The 15th Conference & Exhibition of the European Ceramic Society (ECerS2017), Macaristan, 2017
32. Ocak BC, Yucel O, Sahin F, Goller G, "Solid solution formation and mechanical properties of ZRC ceramics enhanced by TiC particles and graphene", The 15th Conference & Exhibition of the European Ceramic Society (ECerS2017), Macaristan, 2017
33. Guney B, Ara R, E FD, Apak B, Karadayi IA, Goller G, Yucel O, Sahin FC, "Fracture toughness properties of spark plasma sintered boron carbide ceramics using Ti and TiO<sub>2</sub>" The 15th Conference & Exhibition of the European Ceramic Society (ECerS2017), Macaristan, 2017
34. Apak B, Goller G, Yucel O, Sahin F, "Light weight metallic additive effect on ballistic performance of spark plasma sintered B<sub>4</sub>C", The 15th Conference & Exhibition of the European Ceramic Society (ECerS2017), Macaristan, 2017.
35. Sahin F, Apak B, Cengiz M, Yavas B, Ocer SC, Goller G, Turan S, Balzasi K "B<sub>4</sub>C based ceramic composites prepared by spark plasma sintering" The 15th Conference & Exhibition of the European Ceramic Society (ECerS2017), Macaristan, 2017.
36. Gok MG, Goller G, "Mechanical properties and phase structure of laser surface modified gadolinium zirconate based thermal barrier coating" International Materials Technologies and Metallurgy Conference, Türkiye, 2017
37. Gok MG, Yavas B, Goller G "self-healing ability of Al<sub>2</sub>O<sub>3</sub> based ceramics reinforced by graphene", International Materials Technologies and Metallurgy Conference, Türkiye, 2017
38. Ozturk OO, Akin I, Yucel O, Sahin F, Goller G, "Investigation of the properties of carbon nanotube reinforced ZRC-ZRB<sub>2</sub> composites", International Materials Technologies and Metallurgy Conference, Türkiye, 2017
39. Yavas B, Goller G, "Oxidation Behavior of TZM Alloy in Case of Boride Formation on Surface" International Materials Technologies and Metallurgy Conference, Türkiye, 2017
40. Akturk A, Taygun ME, Goller G, Kucukbayrak S, "Study on Alginate and Soluble Starch Capped Silver Nanoparticles Obtained by Using Green Synthesis" International Materials Technologies and Metallurgy Conference, Türkiye, 2017

41. Curcio M, Fosca M, Teghil R, Goller G, Bonis AD, Rau JV, "Innovative Nanostructured Biomaterials for Bone and Dental Implants" International Materials Technologies and Metallurgy Conference, Türkiye, 2017
42. Goller G, "New Generation Thermal Barrier Coatings", 6th International Conference on Materials Science and Technologies – RoMAT 2016, (2016). Davetli konuşmacı
43. Yavas B, Goler G, "Effect of B4C Addition on Oxidation Behavior of TZM Alloy Prepared by Spark Plasma Sintering Method", 6th International Conference on Materials Science and Technologies – RoMAT 2016, (2016).
44. Camelia T, Greta V, Aurora A, Gok MG, Goller G, Alexandra T, Lavinia D, Izabella S, Claudia M, Antoniac I, "In-vitro characterization of some hydroxyapatite-based composites for medical applications", 6th International Conference on Materials Science and Technologies – RoMAT 2016, (2016).
45. Özer C, Büyük B, Tugrul AB, Turan S, Yucel O, Goller G, Sahin FC "Gamma and Neutron Shielding Behavior of Spark Plasma", TMS2016 Annual Meeting Supplemental Proceedings, (2016).
46. Yavas B, Sahin FC, Yucel O, Goler G, "Investigation the effect of B4C addition on microstructure, mechanical properties and oxidation behavior of TZM alloy prepared by spark plasma sintering", Materials Science & Technology, 2016 Conference & Exhibition (MS&T'16), (2016).
47. Kirbiyik F, Goler G, "Production and Characterization of Al<sub>2</sub>O<sub>3</sub>/CYSZ Thermal Barrier Coatings with Functionally Graded Design", Materials Science & Technology, 2016 Conference & Exhibition (MS&T'16), (2016).
48. Ocak BC, Sahin FC, Yucel O, Goler G, "Microstructure and Mechanical Properties of GrapheneTiC-ZrC Composites", Materials Science & Technology, 2016 Conference & Exhibition (MS&T'16), (2016).
49. Akturk A, Taygun ME, Goller G, Kucukbayrak S, "Nanocomposite Materials Containing Metal Nanoparticles for Tissue Engineering Applications", IMMC 2016 18th International Metallurgy & Materials Congress, Turkey, (2016).
50. Cengiz M, Büyük B, Tuğrul AB, Yucel O, Sahin FC, "Fabrication and Characterization of Composites Starting from Boron Carbide Titanium Powder Mixture", IMMC 2016 18th International Metallurgy & Materials Congress, Turkey, (2016).
51. Apak B, Goler G, Yucel O, Sahin FC, "The Effects of Additives on Ballistic Performance of the Spark Plasma Sintered Boron Carbide Ceramics", IMMC 2016 18th International Metallurgy & Materials Congress, Turkey, (2016).
52. Sarıdaş S, Goler G, Yucel O, Sahin FC, "Production and Characterization of Magnesium Aluminate Spinel", IMMC 2016 18th International Metallurgy & Materials Congress, Turkey, (2016).
53. Gok MG, Goler G, "Determination of hot corrosion and CMAS infiltration behavior of Thermal Barrier Coatings using a CO<sub>2</sub> laser beam", IMMC 2016 18th International Metallurgy & Materials Congress, Turkey, (2016).
54. Kirbiyik F, Goler G, "Processing and characterization of CYSZ/Al<sub>2</sub>O<sub>3</sub> functionally graded thermal barrier coating", IMMC 2016 18th International Metallurgy & Materials Congress, Turkey, (2016).

55. Ocak BC, Goler G, "Mechanical properties of spark plasma sintered ZrC-TiC/graphene composites", IMMC 2016 18th International Metallurgy & Materials Congress, Turkey, (2016).
56. Tuzemen C, Goler G, "Effect of TiC and ZrC addition on densification, microstructure and mechanical properties of TZM alloys", IMMC 2016 18th International Metallurgy & Materials Congress, Turkey, (2016).
57. Yavas B, Sahin FC, Yucel O, Goler G, "Preparation of Pre-alloyed TZM Alloy with Addition of B4C by Using Spark Plasma Sintering", IMMC 2016 18th International Metallurgy & Materials Congress, Turkey, (2016).
58. Danisman B, Sahin FC, Yucel O, Goller G, "Characterization of TZM Alloys Sintered by SPS", 2015 MRS Fall Meeting & Exhibit (MRS2015), ABD, (2015).
59. Yavas B, Yucel O, Sahin FC, Goler G, "Effect of B4C Addition on Densification, Microstructure and Mechanical Properties of TZM Alloys", 2015 MRS Fall Meeting & Exhibit (MRS2015), ABD, (2015).
60. Gok MG, Goller G, "Thermal Conductivity and Thermal Shock Behaviour of CYSZ/GZ Thermal Barrier Coatings", 2015 MRS Fall Meeting & Exhibit (MRS2015), ABD, (2015).
61. Cekli C, Yucel O, Sahin FC, Goler G, "Microstructural Characterization of Molybdenum Carbide Structures Produced by Spark Plasma Sintering (SPS)", 2015 MRS Fall Meeting & Exhibit (MRS2015), ABD, (2015).
62. Buyuk, B., Cengiz, M., Tugrul, A.B., Ozer, S.C., Lastovski, S.B., Yucel, O., Goller, G., Sahin, F. C. Neutron Irradiation Effects on Spark Plasma Sintered Boron Carbide, 11th International Conference "Interaction of Radiation with Solids", September 23-25, Minsk, Belarus (2015).
63. Cengiz, M., Ozer, S.C., Goller, G., Yucel, O., Sahin, F.C., Spark plasma sintering and characterization of boron carbide-titanium composites in square cross section, 14 th International Conference and Exhibition of the European Ceramic Society, ECERS 2015, Toledo, İspanya (2015).
64. Ozer, S.C., Cengiz, M., Yucel, O., Goller, G., Turan, S., Sahin, F.C., Processing and mechanical characterization of boron carbide ceramics with tungsten additive consolidated by spark plasma sintering, 14 th International Conference and Exhibition of the European Ceramic Society, ECERS 2015, 21-25 Haziran 2015, Toledo, İspanya (2015).
65. Korkmaz, E., Sarıdaş, S., Cengiz, M., Goller, G., Yucel, O., Sahin, F.C., Spark plasma sintering and characterization of transparent yttria ceramics, 14 th International Conference and Exhibition of the European Ceramic Society, ECERS 2015, Toledo, İspanya (2015).
66. Sarıdaş, S., Korkmaz, E., Cengiz, M., Goller, G., Yucel, O., Sahin, F.C., Producing transparent MgAl2O4 spinel polycrystal by spark plasma sintering, 14 th International Conference and Exhibition of the European Ceramic Society, ECERS 2015, Toledo, İspanya (2015).
67. Vitioanu G, Gok MG, Antoniac L, Goller G, Camelia T, "Processing and characterization of some hydroxyapatite-based composites for bone substitutes", International Seminar on Biomaterials & Regenerative Medicine (BIOREMED), Romanya, (2015).

68. Rachieru B, Yavas B, Antoniac L, Goller G, Semenescu A, "Electrophoretic deposition of hydroxyapatite coatings on some magnesium alloys for biodegradable implant applications", International Seminar on Biomaterials & Regenerative Medicine (BIOREMED), Romania, (2015).
69. Goller G, "Research Studies on Bioceramic Based Composites", International Seminar on Biomaterials & Regenerative Medicine (BIOREMED), Romania, (2015).
70. Gok MG, Goller G, "Thermal Cycling Behavior of CYSZ/GZ and CYSZ/CYSZ+GZ Multilayered Thermal Barrier Coatings", Materials Science & Technology, 2014 Conference & Exhibition (MS&T'14), (2014).
71. Yavas B, Yucel O, Cinar F, Goller G, "Effect of Particle Size and Heating Rate on Densification, Microstructure and Mechanical Properties of B<sub>4</sub>C Ceramics", Materials Science & Technology, 2014 Conference & Exhibition (MS&T'14), (2014).
72. Turkmen AK, Goller G, "Production and Characterization of HA/Chitosan 3D Scaffolds Prepared by Electrospinning", 6th International Conference of Biomaterials, Tissue Engineering & Medical Devices, (BiomMedD'14), (2014).
73. Dokur MM, Goller G, "Processing and Characterisation of CYSZ/Al<sub>2</sub>O<sub>3</sub> and CYSZ/Al<sub>2</sub>O<sub>3</sub>+YSZ Multilayered Thermal Barrier Coatings", 2nd International Surface Treatment Symposium (ISTS), (2014).
74. Cavalu S, Simon V, Akin I, Goller G, "Adherence Properties of Acrylic Bone Cement to Alumina Ceramics Designed for Clinical Applications", 3rd International Congress on Advances in Applied Physics and Materials Science, (2014).
75. Turan A, Bugdayci M, Cinar FC, Goller G, Yucel O, "Synthesis and Sintering of TiB<sub>2</sub>", IMMC'17, International Metallurgy & Materials Congress, 258-264, (2014).
76. Yavas B, Akin İ, Yucel O, Cinar F, Goller G "Densification Behavior and Mechanical Properties of Spark Plasma Sintered B<sub>4</sub>C Ceramics" International Middle East Plasma Science (IMEPS), (2014).
77. Goller G, "Densification Behavior and Mechanical Properties of Spark Plasma Sintered ZrC-Based Composites", APMAS 2013, 3rd International Advances in Applied Physics and Material Science Congress, *Invited Speaker*, (2013).
78. Goller G, Sahin F, Denizalp F, Yucel O, "Effect of Sintering Temperature on Densification Behavior of Spark Plasma Sintered Molybdenum" TMS 2013, The Minerals, Metals & Materials Society, 142<sup>nd</sup> Annual Meeting & Exhibition, (2013).
79. Koncz P, Horvarth A, Balazsi K, Sahin F, Goller G, Yucel O, Balazsi C, "Correlation between milling parameters, structural and mechanical properties of nanostructured austenitic Y<sub>2</sub>O<sub>3</sub> strengthened steels", 8th Hungarian Conference on Materials Science, (2013).
80. Cavalu S, Simon V, Ratiu C, Rus V, Akin I, Goller G, "Titania versus Ceria alumina/zirconia composites: structural aspects and biological tolerance", 24th Symposium and Annual Meeting of International Society for Ceramics in Medicine (ISCM 2012).
81. Simon V, Ormanci O, Akin, I, Cavalu S, Goller G, "In Vivo Evaluation of Zirconia Toughened Alumina Ceramics" MS&T'12, Materials Science & Technology, 2012 Conference & Exhibition, (2012).

82. Ormanci O, Akin I, Sahin F, Yucel O, Goller G, "The Role of TiO<sub>2</sub> on Densification and Mechanical Properties of Al<sub>2</sub>O<sub>3</sub>-YSZ Composites" MS&T'12, Materials Science & Technology, 2012 Conference & Exhibition, (2012).
83. Goller G, "Effect of Different Sintering Agents on Densification Behavior and Properties of SPSe Al<sub>2</sub>O<sub>3</sub>-YSZ Composites", BiomMedD'2012, 5<sup>th</sup> Biomaterials, Tissue Engineering & Medical Devices, Conference Proceedings:116, *Invited Speaker*, (2012).
84. Ormanci O, Akin I, Goller G, "In Vitro Characterization of Potassium Mica and Fluorapatite Based Glass Ceramics" 5<sup>th</sup> International Conference "Biomaterials, Tissue Engineering & Medical Devices" BiomMedD'2012, 5<sup>th</sup> Biomaterials, Tissue Engineering & Medical Devices, (2012).
85. Cavalu S, Simon V, Ratiu C, Oswald I, Vlad S, Ponta O, Akin I, Goller G, "Alternative approaches using animal model for implant biomaterials: advantages and disadvantages" BiomMedD'2012, 5<sup>th</sup> Biomaterials, Tissue Engineering & Medical Devices, Conference Proceedings:116, (2012).
86. Ormanci O, Akin I, Sahin F, Yucel O, Goller G, "Characterization of Al<sub>2</sub>O<sub>3</sub>/YSZ composites prepared by spark plasma sintering", 2<sup>nd</sup> International Advances in Applied Physics & Materials Science Congress, (2012).
87. Sagdic S, Akin İ, Sahin F, Yucel O, Goller G, "Mechanical Properties Of Plasma Sintered ZrC-SiC Composites", TMS 2012, The Minerals, Metals&Materials Society, 141<sup>th</sup> Annual Meeting&Ehibition, (2012).
88. Acicbe B, Akin İ, Sahin F, Yucel O, Goller G, "Effect of TiC Addition on Sintering Behaviour of ZrC", TMS 2012, The Minerals, Metals&Materials Society, 141<sup>th</sup> Annual Meeting&Ehibition, (2012).
89. Apak B, Kanbur H, Zayim E, Goller G, Yucel O, Sahin F, "Transparent Polycrystalline Alumina Obtained By Sps: Single And Double Doping Effect", TMS 2012, The Minerals, Metals&Materials Society, 141<sup>th</sup> Annual Meeting&Ehibition, (2012).
90. Dereliooglu Z, Goller G, "Microstructural Investigation of Plasma Sprayed Coatings of Al<sub>2</sub>O<sub>3</sub>-YSZ Structures", IMMC'16, International Metallurgy & Materials Congress, 618-624, (2012).
91. Arslankara E, Turan A, Goller G, Yucel O, Cinar FC, " The Effect of VC as a Grain Refiner on Spark Plasma Sintered WC-Co Based Hard Materials", IMMC'16, International Metallurgy & Materials Congress, 89-96, (2012).
92. Odabasi A, Unlu N, Goller G, Eruslu MN, Kayali ES, " Relationship Between Heat Input and Microstructure and Mechanical Properties of Laser Beam Welded Superalloy Inconel 718", TMS 2012, The Minerals, Metals&Materials Society, 141<sup>th</sup> Annual Meeting&Ehibition, 199-205, (2012).
93. Cavalu S, Simon V, Ratiu C, Oswald I, Gabor R, Ponta O, Akin I, Goller G, "Correlation Between Structural Properties and In Vivo Biocompatibility of Alumina/Zirconia Bioceramics", Bioceramics 23<sup>rd</sup> Proceedings: 1-6 (2011).
94. Cavalu S, Simon V, Akin I, Goller G, "Improving the Bioactivity and Biocompatibility of Acrylic Cements by Collagen Coating", Bioceramics 23<sup>rd</sup> Proceedings: 391-396 (2011).
95. Anzabi O, Aydin MM, Ozyegin LS, Oktar KA, Goller G, Kayali ES, Erkmen EZ, "Characterization of Plasma Sprayed Yittria Stabilized Zirconia (8 wt %) Hydroxyapatite Coatings", Bioceramics 23<sup>rd</sup> Proceedings: 535-538 (2011).



96. Akin I, Sahin F, Yucel O, Goller G, "Oxidation behavior of zirconium diboride-silicon carbide composites", 34<sup>th</sup> International Conference on Advanced Ceramics and Composites Proceedings: 105-114 (2010).
97. Apak B, Goller G, Yucel O, Cinar FC, "Nano Boyuttaki Al<sub>2</sub>O<sub>3</sub> Seramiklerinin Spark Plazma Sinterleme Yöntemi ile Üretimi", IMMC'15, International Metallurgy & Materials Congress, 2252-2258, (2010).
98. Uygun B, Goller G, Yucel O, Sahin F, "Bor Karbür - Titanyum Borür Seramiklerinin Spark Plazma Sinterleme (SPS) Metoduyla Üretimi ve Karakterizasyonu", IMMC'15, International Metallurgy & Materials Congress, 2106-2112, (2010).
99. Odabasi A, Unlu N, Goller G, Kayali, ES, Eruslu MN, " Lazer Kaynaklı Hayness 188 Süper Alaşımının Karakterizasyonu", IMMC'15, International Metallurgy & Materials Congress, 767-778, (2010).
100. Akin I, Yilmaz E, Ormanci O, Sahin F, Yucel O, Goller G, "Effect of TiO<sub>2</sub> addition on the properties of Al<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub> composites prepared by spark plasma sintering", Bioceramics 22 Proceedings, 361-364 (2009).
101. Akin I, Ormanci O, Yilmaz E, Goller G, "Synthesis and characterization of chitosan-bioglass composites", Bioceramics 22 Proceedings, 691-694 (2009).
102. Akin I, Sahin FC, Yucel O, Goto T, Goller G, "Production and characterization of ZrB<sub>2</sub>-ZrC-SiC composites by spark plasma sintering", 11<sup>th</sup> International Conference and Exhibition of the European Ceramic Society, ECERS 2009, 21-25 Haziran 2009, Krakow, Polonya.
103. Akin I, Sahin FC, Goto T, Goller G, "Densification of ZrB<sub>2</sub>-SiC composites by spark plasma sintering (SPS)", 11<sup>th</sup> International Conference and Exhibition of the European Ceramic Society, ECERS 2009, 21-25 Haziran 2009, Krakow, Polonya.
104. Alkan B, Dokur MM, Solak N, Urgen M, Goller G, "Thermal properties of carbon fiber reinforced polymeric matrix composites produced by spray-up process", 11<sup>th</sup> International Conference and Exhibition of the European Ceramic Society, ECERS 2009, 21-25 Haziran 2009, Krakow, Polonya.
105. Dokur MM, Alkan B, Goller G, "Production and characterization of carbon fiber reinforced polymeric matrix composites prepared by spray-up process", 11<sup>th</sup> International Conference and Exhibition of the European Ceramic Society, ECERS 2009, 21-25 Haziran 2009, Krakow, Polonya.
106. Sen C, Alkan B, Ormanci O, Akin I, Sahin FC, Goller G, "Microstructural characterization of spark plasma sintered Li doped KNN piezoceramics", 11<sup>th</sup> International Conference and Exhibition of the European Ceramic Society, ECERS 2009, 21-25 Haziran 2009, Krakow, Polonya.
107. Ormanci O, Menevse H, Akin I, Goller G, "Processing of hydroxyapatite-chitosan composites", 11<sup>th</sup> International Conference and Exhibition of the European Ceramic Society, ECERS 2009, 21-25 Haziran 2009, Krakow, Polonya.
108. Odabasi A, Unlu N, Goller G, Eruslu N, "INCONEL 718 süper alaşımının lazer kaynağında ısı girdisinin mikroyapı ve mekanik özellikler üzerindeki etkisi", 1<sup>st</sup> International Conference on Welding Technologies, 11-13 Haziran 2009, Ankara/TÜRKİYE.

109. Akin I, Sahin F, Yucel O, Goto T, Goller G, "High-temperature microstructures of ZrB<sub>2</sub>-SiC composites prepared by spark plasma sintering", TMS 2009, The Minerals, Metals&Materials Society, 15-19 Şubat 2009, San Francisco, California/ABD.
110. Akin I, Sahin F, Yucel O, Goto T, Goller G, "Preparation of ZrB<sub>2</sub>-ZrC composites by spark plasma sintering", TMS 2009, The Minerals, Metals&Materials Society, 15-19 Şubat 2009, San Francisco, California/ABD.
111. Akin I, Sahin F, Yucel O, Goto T, Goller G, "Production and characterization of ZrB<sub>2</sub>-ZrC-SiC composites", TMS 2009, The Minerals, Metals&Materials Society, 15-19 Şubat 2009, San Francisco, California/ABD (2009).
112. Akin I, Sahin F, Yucel O, Goto T, Goller G, "Synthesis and characterization of ZrB<sub>2</sub>-SiC composites produced by spark plasma sintering (SPS)", Sintering 2008, 16-21 Kasım, La Jolla, California/ABD (2008).
113. Goller G, Ceylan U, "Influence of ZrO<sub>2</sub> addition on in-vitro bioactivity properties of potassium mica-fluorapatite based glass ceramics", TMS 2008, The Minerals, Metals&Materials Society, 9-13 Mart 2008, New Orleans, Louisiana/ABD (2008).
114. Goller G, Ceylan U, Akin I, "The effect of zirconia addition on crystallization behaviour and machinability of potassium mica and fluorapatite glass ceramics", 10<sup>th</sup> International Conference and Exhibition of the European Ceramic Society, Berlin/Almanya (2007).
115. Goller G, Seckiner A, Akin I, "Production and characterization of potassium mica and cordierite based glass ceramics", TMS 2007 Annual Meeting, Orlando/ABD (2007).
116. Goller G, Akin I, Urgen M, "Potasyum mikası ve florapatit içeren işlenebilir cam seramiklerin kristalizasyon davranışları ve işlenebilirlik özellikleri", XII<sup>th</sup> International Metallurgy and Materials Congress, İstanbul (2005).
117. Goller G, Cekli C, Kayali ES, "%75 potasyum mikası ve %25 florapatit içeren işlenebilir cam-seramiklerin kristalizasyon davranışları ve işlenebilirlik özellikleri", XII<sup>th</sup> International Metallurgy and Materials Congress, İstanbul (2005).
118. Ertug B, Demirkesen E, Goller G, "Li<sub>2</sub>O.2SiO<sub>2</sub>-BaO.2SiO<sub>2</sub> camların kontrollü kristalizasyonu ve kimyasal kararlılıkları", XI<sup>th</sup> International Metallurgy and Materials Congress, İstanbul (2002).
119. Goller G, Oktar FN, Yazici T, Kayali ES, "Characterization of plasma sprayed bioglass coatings on titanium", XI<sup>th</sup> International Metallurgy and Materials Congress, İstanbul (2002).
120. Goller G, Gurmen S, Demirkesen E, "Plazma sprej kaplamayla uygun özellikte biyocam üretimi", XI<sup>th</sup> International Metallurgy and Materials Congress, İstanbul (2002).
121. Sen D, Poyrazoglu E, Tunceli B, Goller G, "The efficiency of several surface treatments on bond strength of resin cement to I-ceram core material", 22<sup>nd</sup> Annual Conference European Prosthodontic Association, 55, Finland (1998).
122. Cimilli H, Kartal N, Goller G, Aftar H, "Çeşitli konsantrasyonlarda karbamid peroksit içeren beyazlatma ajanlarının minenin kimyasal kompozisyonuna etkisinin incelenmesi", The 6<sup>th</sup> International Congress of The Turkish Endodontic Society, 55, İstanbul, (1998).

123. Goller G, Kotty DP, Singh M, Tewari SN, Tekin A, "Basıncılı infiltrasyonla üretilmiş Cu-C kompozitlerin tribolojik karakterizasyonu", IX<sup>th</sup> International Metallurgy and Materials Congress, 1195-1199, Istanbul (1997).
124. Goller G, Kotty DP, Tewari SN, Singh S, Tekin A, "Tribological behaviour of pressure infiltration cast carbon composites", XII<sup>th</sup> International Conference on Glass and Ceramics, 413-424, Varna (1996).
125. Yucel O, Inal OT, Goller G, Tekin A, "Metal/seramik kompozitlerin şok sıkıştırma yöntemi ile imali", VIII International Metallurgy & Materials Congress and Exhibition, 1295-1305, Istanbul (1995).
126. Goller G, Toy C, Gupta CK, Tekin A, "Determination the mineralizing effect of salt addition on B-C system for boron carbide reaction", 8<sup>th</sup> CIMTEC World Ceramic Congress, 655-662, Florance (1994).
127. Goller G, Toy C, Tekin A, "Powder characterization and lattice constant refinement of boron carbide powders", 11<sup>th</sup> Conference on Glass and Ceramics, 436-441, Varna (1993).
128. Goller G, Toy C, Unal E, Tekin A, "Bor karbür tozlarının tane boyutunun oksidasyon özelliği kullanılarak küçültülmesi", 7<sup>th</sup> International Metallurgy and Materials Congress and Exhibition, Ankara, pp.601-608 (1993).
129. Toy C, Goller G, Tekin A, Baykara T, "Reaction parameters for production of boron carbide powders" UNIDO Seminar on New Material and Their Application, Kiev, Ukraine (1992).
130. Goller G, Yucel O, Addemir O, Tekin A, "İleri teknolojik seramik bor karbürün pilot çapta üretimi", 4<sup>th</sup> International Ceramic Congress, 176-185, Istanbul (1990).

#### **Papers Submitted to National Meetings:**

1. Goller G, "Isı Kalkanı Malzemeleri", Uzay Kalifiye Malzeme Teknolojileri Sempozyumu, İstanbul (2015).
2. Goller G, Birla NC, Tekin A, "Savunma sanayinde kullanılan ileri teknolojik üretim yöntemleri", X<sup>th</sup> İleri Savunma Teknolojileri Sempozyumu, 843-864, Ankara (1997).
3. Goller G, Birla NC, Tekin A, "Hafif zırh malzemeleri", X<sup>th</sup> İleri Savunma Teknolojileri Sempozyumu, 785-794, Ankara (1997).
4. Goller G, Toy C, Addemir O, Tekin A, "Bor karbürde soğuma hızı-serbest karbon miktarı ilişkisinin mikroyapısal incelemesi ve serbest karbonun asit liç işlemi üzerine bir çalışma", 7. Ulusal Mekanik Kongresi, 241-251 Antalya (1991).
5. Goller G, Yücel O, Toy C, Tekin A, "Nükleer reaktörlerde kontrol çubuğu olarak kullanılan bor karbürün üretimi", 5.Ulusal Nükleer Bilimler Kongresi, İzmir (1991).
6. Goller G, Tekin A, "Bor karbür üretim yöntemleri", 6. Metalurji Kongre ve Sergisi, 538-552, Ankara (1989).

## **CONFERENCE/CONGRESS/SYMPOSIUM ATTENDANCE (Last Five Years)**

1. International Materials Technologies and Metallurgy Conference (MTM 2019), Turkey, 2019
2. Materials Science & Technology, 2018 Conference & Exhibition (MS&T'19), USA, (2019)
3. 7th International Conference on Materials Science and Technologies – RoMAT 2018, Romania, (2018)
4. Materials Science & Technology, 2018 Conference & Exhibition (MS&T'18), USA, (2018)
5. 2nd Biennial International Conference on Biomaterials and Novel Technologies for Healthcare, Biomah, Italy, (2018)
6. IMMC 2018 19th International Metallurgy & Materials Congress, Turkey, (2018)
7. International Materials Technologies and Metallurgy Conference, Turkey, 2017
8. International Conference on Sintering 2017, US, 2017
9. The 15th Conference & Exhibition of the European Ceramic Society (ECerS2017), Hungary, 2017.
10. 6th International Conference on Materials Science and Technologies – RoMAT 2016, 9-12 Kasım 2016, Bucharest/Romania.
11. Materials Science & Technology, 2016 Conference & Exhibition (MS&T'16), 23-27 Ekim 2016, Salt Lake/ABD.
12. IMMC 2016 18th International Metallurgy & Materials Congress, 29 September-1 October 2016, Istanbul.
13. MSB Birinci Savunma Teknolojileri Günü savunma Sanayi Arge ve Teknoloji Yönetimi Paneli, 12 Nisan 2016, Ankara, Turkey.
14. Symposium of Space Qualified Materials Technology, 14-15 Aralık 2015, İstanbul, Turkey.
15. MRS'2015, MRS Fall Meeting & Exhibit, 29 Kasım- 4 Aralık 2015, Boston/US.
16. Bioremed 2015, International Seminar on Biomaterials & Regenerative Medicine, 17-30 Eylül 2015, Oradea/Romanya.
17. ICACC'15, 39th International Conference and Expo on Advanced Ceramics and Composites, 25 Ocak- 4 Şubat 2015, Daytona Beach/ABD.
18. MS&T'14, Materials Science & Technology, 2014 Conference & Exhibition, 12-16 October 2014, Pittsburg/ABD.
19. BiomMedD'2014, 6th International Conference Biomaterials, Tissue Engineering & Medical Devices, 17-20 September 2014, Constanta/Romania.
20. ISTS 2014, 2nd International Surface Treatment Symposium, 25-27 June 2014, Istanbul/Turkey.

21. TMS 2014, The Minerals, Metals & Materials Society, 16-20 Feb 2014, San Diego, California/ABD.
22. APMAS 2013, 3rd International Advances in Applied Physics and Material Science Congress, (*Invited Speaker*), 24-28 Apr 2013, Antalya, Turkey.
23. TMS 2013, The Minerals, Metals & Materials Society, 3-7 Mar 2013, San Antonio, Texas/ABD.
24. MS&T'12, Materials Science & Technology, 2012 Conference & Exhibition, 7-11 Oct 2012, Pittsburg/ABD.
25. BiomMedD'2012, 5<sup>th</sup> Biomaterials, Tissue Engineering & Medical Devices, Constanta, (*Invited Speaker*), 29 Agst-01 Sept 2012, Constanta/Romanya.
26. ICC4, 4<sup>th</sup> International Congress on Ceramics, 15-19 July 2012, Chicago/ABD.
27. TMS 2012, The Minerals, Metals&Materials Society, 11-15 March 2012, Orlando, Florida/ABD.