ÖZGEÇMİŞ

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Verdiği Dersler:
Fundamentals of Physical Metallurgy, Powder Metallurgy, Engineering Polymers, Production and Characterization of Metallic Nanoparticles, Production of Metallic Powders, Production Methods, Üretim Yöntemleri, Yapısal Seramikler (Yüksek Lisans), Seminer (Yüksek Lisans)

Araştırma İlgi Alanları:
Toz Metalurjisi ve Partikül Esaslı Seramik ve Metalik Sistemler konularında her türlü Malzeme Karakterizasyonu ve Yeni ürünlerin geliştirilmesi, Sıvı Faz Sinterleme, Kaplanmış Tozlar, Mekanik Alaşımlama , Nanoporoz Karbon Kaplamalar, Nano boyutlu toz ve fiber üretimi, Anti Bakteriyel Seramikler, Isıl şok direnci yüksek malzemeler, Volfram Ağır Alaşımları, Volfram-bakır ve Molibden bakır kökenli ısıl idare uygulamalarında kullanılan malzemelerin geliştirilmesi, Alümina esaslı yapısal seramikler, Şekil Bellekli Alaşımlar.

Yayınlar:
A.Makaleler:

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B.Bildiriler:

B-1 Tam Metin (seçilmiş):

B1-1. Şulan T., Ernas G., Özkal B., and Öveçoğlu M.L., *''Characterization and Liquid Phase Sintering Practices of 90W7Ni3Fe Heavy Alloys Produced via P/M Route", 7th International Metallurgy & Materials Congress, Proceedings Vol.1, pages. 739- 750, May 1993 (in Turkish).*

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B1-17. Uçar T. , Özkal B and İ. Aydın, "Evaluation of Fiber Added Clay-Kaolin Mixtures for the Use of Art Applications", 14th International Metallurgy & Materials Congress, 14.Uluslararası Metalurji ve Malzeme Kongresi, Özet Kitabı syf. 119., Ekim 2008 (Oral Presentation).

B1-18. Gökçe H., Uçar T., Söyler A. U., Hamzaçebi C., Öveçoğlu M.L., and Özkal B "Examination of Microstructural and mechanical Properties of Ceramic Materials Obtained by Sepiolite-Kaolinite and Phyrofillite", 14th International Metallurgy & Materials Congress, İstanbul, Abstract Book syf. 134., October 16-18 2008 (Poster Presentation).

B1-19. Yumakgil, H. K., Gökçe H., Özkal B., Gürmen S. and Öveçoğlu M.L.,"Optimization of Milling Conditions for the Production of Fine Silver Powders, TMS 2009 138TH ANNUAL MEETING & EXHIBITION - SUPPLEMENTAL PROCEEDINGS, VOL 3: GENERAL PAPER SELECTIONS Pages: 771-776 Published: 2009 (Poster Presentation).

B1-20. Gürmen S., Ebin. B. and Özkal B**.,** "Preparation of Zinc Oxide Nanostructures from Zinc Sulfate and Zinc Nitrate Precursors" TMS 2009 138TH ANNUAL MEETING & EXHIBITION - SUPPLEMENTAL PROCEEDINGS, VOL 3: GENERAL PAPER SELECTIONS Pages: 607-612 Published: 2009 (Poster Presentation).

B2-Özetler (seçilmiş):

1. -Öveçoğlu M.L., Çataklı E., Erkmen, Z.E. and Özkal B. "Microstructural Morphologies of Slag based Glass-ceramics Nucleated with 5 wt% Cr_2O_3 and 5 wt% Cr_2O_3 + 5 wt% TiO_2", 7th Conference of the European-Ceramic-Society, SEP 09-13, 2001 BRUGGE, BELGIUM.
2. -Özkal B. Demirler U. Hamzaçebi C. and Öveçoğlu M.L. "Slip casting of co-milled Al_2O_3-SiC powder mixtures and their characterization before and after sintering against slip thickness", 8th Conference of the European-Ceramic-Society, JUN 29-JUL 03, 2003 Istanbul, TURKEY.
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8. -Sınmazışık G., Şen D., Tunçelli B., Poyrazoğlu E., Özkal B. and Öveçoğlu M.L. "A comparative study of the effect of different polishing systems on ceramic dental surfaces", 8th Conference of the European-Ceramic-Society, JUN 29-JUL 03, 2003 Istanbul, TURKEY.
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10. -Yamamoto O.,Jiang W., Özkal B. and Nakagawa Z.' "Coating of Compressed ZnO with Carbon" presented in Carbon2005 held in Korea, July 3-7, 2005.
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12. -Özkal B. and Yamamoto. O. "Nanoporous Carbon Coated ZnO Powder and Fibers" presented in The International Conference on Nanotechnology: Science and application (Nanotech Insight 2007) held in Luxor, Egypt, sayfa 39-40, March 10-17, 2007 (Oral Presentation).
13. -Özkal B. and Yamamoto O., "Characterization of Nanoporous Carbon Layer on Powder and Bulk Ceramic Substrates", Nanotech Insight 2009, 29 March -02 April 2009 Barcelona-Spain (Poster Presentation).
14. -Duman Ş., Ohira T., Gürmen S., Özkal B. and Yamamoto O., "Preparation of Silver Nanoparticle (AgNP) Doped ZnO-PVA Composite Powders by Spray Drying and their Antibacterial Activity Behavior", Nanotech Insight 2009, 29 March -02 April 2009 Barcelona-Spain (Poster Presentation).
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16. -Özkal B. "Optimization of the Spray Drying Conditions for the Production of ZnO-PVA Composite Powders", The Seventh International Congress in Materials Science and Engineering, May 28-31, 2009 Iasi-Romania (Oral Presentation-Invited Talk).
17. -Özkal B., Duman Ş. And Yamamoto O. "Development and Characterization of Nanoporous Carbon Coated ZnO Powders prepared by Pyrolysis of Spray Dried ZnO-PVA Mixtures", TMS 2010 139TH ANNUAL MEETING & EXHIBITION – Functional and Structural nanomaterials: Fabrication, Properties, applications and Implications: Synthesis of Nanomaterials I, Feb 16, 2010 (Oral Presentation).
18. -Özkal B., "A Summary of Recent PM Trends in Turkey", Forum-PM Activities in Asia, APMA 2011, October 30- November 2, 2011, Jeju-Korea Forum Speaker (Oral Presentation-Invited Talk).
19. -Söyler A.U., Özkal B. and Bujoreanu L.G.,"Effect of Cold Deformation on the Microstructure and Transformation Properties of Fe-14Mn-6Si-9Cr-5Ni Shape Memory Alloy, Prepared by P/M Route",12th International Symposium on Novel and Nano Materials

(ISNNM-2012), Organizers: The Korean Powder Metallurgy Institute – Istanbul Technical University, August 26-30, 2012. (Oral Presentation).

20. -Yumakgil K. and Özkal B.,"Fabrication of Silver Powder Added Polypropylene Matrix Comcosites via Injection Molding ",12th International Symposium on Novel and Nano Materials (ISNNM-2012), Organizers: The Korean Powder Metallurgy Institute – Istanbul Technical University, August 26-30, 2012. (Oral Presentation).
21. -Yilmaz D. and Özkal B.,"The Effect of High Energy Milling on Production of 8 %mole Y_2O_3 doped ZrO_2 Powders ",12th International Symposium on Novel and Nano Materials (ISNNM-2012), Organizers: The Korean Powder Metallurgy Institute – Istanbul Technical University, August 26-30, 2012. (Poster Presentation).
22. -Şelte A. and Özkal B.,"Infiltration behaviour of Mechanically alloyed 75 wt.% Cu- 25 wt. % WC Powders into Porous WC Compacts",12th International Symposium on Novel and Nano Materials (ISNNM-2012), Organizers: The Korean Powder Metallurgy Institute – Istanbul Technical University, August 26-30, 2012. (Poster Presentation).
23. -Duman Ş. A. and Özkal B.,"Production and characterization of undoped and Ag and B doped ZnO particles via Spray drying and Thermal decomposition techniques.",12th International Symposium on Novel and Nano Materials (ISNNM-2012), Organizers: The Korean Powder Metallurgy Institute – Istanbul Technical University, August 26-30, 2012. (Poster Presentation).
24. -Duman Ş. A. and Özkal B.,"Preparation and characterization of AgNO3 doped ZnO-PVA and TiO_2-PVA Composite Powders via Spray drying", 12th International Symposium on Novel and Nano Materials (ISNNM-2012), Organizers: The Korean Powder Metallurgy Institute – Istanbul Technical University, August 26-30, 2012. (Poster Presentation).
25. -Söyler A.U., Özkal B. and Bujoreanu L.G.,"Improvement of Shape Memory Characteristics of Fe-14Mn-6Si-9Cr-5Ni powder metallurgy alloy via mechanical alloying", Shape Memory and Superelastic Technologies (SMST-2013), Prague - Czech Republic,May-20-24, 2013. (Oral Presentation).
26. *Özkal B..,"Recent Efforts on Fe-14Mn-6Si-9Cr-5Ni based Shape Memory alloys alloy via Powder Metallurgy",* 13th International Symposium on Novel and Nano Materials (ISNNM-2014), Organizers: The Korean Powder Metallurgy Institute – Krakow, June 29- July 4, 2014 (Keynote Speaker)
27. *Özkal B..,"Characterization of Mechanical alloyed Ni-Ti Powders",* 12th International Congress Machines Technologies Materials'15 (MTM 2015) Organizers: Sci. Tech. Union of Mechanical Eng. – Varna,Bulgaria Sept. 16-19 2015 (Oral Presentation)

Kordinatörlük ve Editörlük (seçilmiş):

-Coordinator of 11th International Metallurgy and Materials Congress Meeting, June 4-8 2002, İstanbul.

-Coordinator of the 12th International Metallurgy and Materials Congress Meeting, Sept 28-Oct 02 2002, İstanbul.

-Session Coordinator of Biomaterials-Nanomaterials Session, 12th International Metallurgy and Materials Congress Meeting, Sept 28-Oct 02 2002, İstanbul.

-Session Coordinator of Powder Metallurgy, Biomaterial and -Nanomaterials Session, 14th International Metallurgy and Materials Congress Meeting, Sept 28-Oct 02 2002, İstanbul.

-Proceedings of 11th International Metallurgy and Materials Congress Abstract Book, Turkish Chamber of Metallurgical Engineers, ISBN:975-395-532-4, , İstanbul, June 2002, Editorial Board : C. Hakan Gür, İrfan Kaptı, M. Lütfi Öveçoğlu, Burak Özkal, Hüseyin Savaş, Mustafa Ürgen.

-Proceedings of 11th International Metallurgy and Materials Congress E-Book, Turkish Chamber of Metallurgical Engineers, ISBN:975-395-553-7 İstanbul, October 2002, Editorial Board : C. Hakan Gür, İrfan Kaptı, M. Lütfi Öveçoğlu, Burak Özkal, Hüseyin Savaş, Mustafa Ürgen.

-Proceedings of 12th International Metallurgy and Materials Congress Abstract Book, Turkish Chamber of Metallurgical Engineers, *ISBN 975-395-941-9*, İstanbul, Sept-Oct. 2005, Editorial Board : *Ertem U., Gür C.H., Orhan, G., Özkal B., Savaş, H. and Ürgen. M*

-Proceedings of 12th International Metallurgy and Materials Congress E-Book, Turkish Chamber of Metallurgical Engineers, *ISBN 9944-89-073-*.İstanbul, Sept-Oct. 2005, Editorial Board :*Ertem U., Gür C.H., Orhan, G., Özkal B., Savaş, H. and Ürgen. M*

-General Co-Secretary of 12th International Symposium on Novel and Nano Materials (ISNNM-2012), Organizers: The Korean Powder Metallurgy Institute – Istanbul Technical University, August 26-30, 2012.

Gerçekleştirdiği Projeler ve Yeraldığı Komisyonlar (Seçilmiş):
TUBITAK Misag-17 Project, "Development of Tungsten based Antitank Rockets via High Technology P/M Methods", 1991-1994 (Project Engineer)
Metop-TTGV Project, "Improvement of Seydişehir Alumina Powder and It's Utilization in High Technology Applications" 1996-1997 (Researcher)
ITU R&D Project "Production of Tungsten Powder from Uludağ Schelite Consantrates and their Utilization in P/M end products". 1996-1998 (Researcher)
Erdemir Steel Mill Project, "Development of Glass Ceramic Materials from waste Blast Furnace Slags of Erdemir Steel Mill" 1999-2001 (Researcher)
Acrediation Commision Member for departmental preparations for Self Study Report and further ABET Accrediation visit, 2002-2003
European Union Erasmus Program ECTS Coordinator of Metalurgical and Materials Engineering Department (responsible from student exchange undergraduate and graduate level) 2004-2008
TUBITAK 1001 R&D PROJECT-MAG-105M063 "Production of nano-sized tungsten, cobalt and nickel powders via ultrasonic spray pyrolysis (USP) and hydrogen reduction method and their utilization in high-technology materials manufactured by powder metallurgy (PM) techniques".2005-2007 (Researcher)
TUBITAK 1001 R&D PROJECT-MAG-105M065 "Development of polymer composite and sinter products using tungsten based nanostructured and nanocomposite powders fabricated via mechanical alloying and mechanochemical techniques". 2005-2007 (Researcher)
ITU BAP PROJECT-320390,."Production of Metallic Foams and Optimization of the Production Parameters via Experimental Design Approaches" 2008-2009 (Researcher)
-TUBITAK 1001 R&D PROJECT-MAG-107M505, "Production of ZnO and Ag Nanopowders and Nanofibers and Development of Antibacterial Polymer Matrix Composite Structures via Injection Molding using these Powders", 2008-2010 (Project Director).

Mesleki Üyelikler::

- Aktif Üyelikler:Metalurji ve Malzeme Mühendisleri Odası, Türk Toz Metalurjisi Derneği, Türk Karbon Derneği
- Dönemsel Üyelikler:Türk Seramik Derneği, Türk Elektron Mikroskobisi Derneği, Japan Ceramic Society, The Minerals, Metals and Materials Society (TMS).