

## Assoc. Prof. Duygu Ağaoğulları

### Personal Information

**Mobile Phone:** [+90 544 422 8734](tel:+905444228734)

**Office Phone:** [+90 212 285 6858](tel:+902122856858)

**Email:** bozkurtdu@itu.edu.tr

**Web:** <https://avesis.itu.edu.tr/bozkurtdu>

**Address:** İTÜ Kimya-Metalurji Fakültesi, Metalurji ve Malzeme Mühendisliği Bölümü, 34469 Maslak/İstanbul

### Education Information

Post Doctorate, Stanford University, Department of Material Science and Engineering, United States Of America 2014 - 2015

Doctorate, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, Turkey 2007 - 2014

Postgraduate, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, Turkey 2004 - 2007

Undergraduate Double Major, Istanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, Turkey 2002 - 2006

Undergraduate, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, Turkey 2000 - 2004

### Foreign Languages

German, A1 Beginner

English, C2 Mastery

### Dissertations

Doctorate, Synthesis, Development And Characterization Of Some Rare-earth Metal Hexaboride Powders And Their Sintered Products, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 2014

Postgraduate, Bor Karbür Orijinli Bor Triklörür Gazından IR Lazer ile Sürekli Akış Altında Fosgen Giderilmesi, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 2007

### Research Areas

Technical Sciences, Metallurgical and Materials Engineering, Material science and engineering, Composites, Material Characterization, Nanomaterials, Production Metallurgy, Powder Metallurgy

### Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 2021 - Continues

Assistant Professor, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 2020 - 2021

Engineer, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 2013 - 2020

Researcher, Stanford University, Malzeme Bilimi ve Mühendisliği, 2014 - 2015

Research Assistant, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 2005 - 2013

## Academic and Administrative Experience

Deputy Head of Department, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 2020 - Continues

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Spark plasma sintering of molybdenum silicides synthesized from oxide precursors**  
Ovalı D., Tarraste M., Kaba M., Ağaoğulları D., Kollo L., Prashanth K. G. , Öveçoğlu M. L.  
CERAMICS INTERNATIONAL, vol.47, no.10, pp.13827-13836, 2021 (Journal Indexed in SCI)
- II. **In-situ synthesis of tungsten boride-carbide composite powders from WO<sub>3</sub>-B<sub>2</sub>O<sub>3</sub>-Mg-C quaternary system via a mechanochemical route**  
Senyurt B., Akcamli N., Ağaoğulları D.  
CERAMICS INTERNATIONAL, vol.47, no.2, pp.1640-1650, 2021 (Journal Indexed in SCI)
- III. **Characterization Investigations of 2 wt% LaB<sub>6</sub> Particulate-Reinforced Al-7 wt% Si Matrix Composites Fabricated by Powder Metallurgy Methods**  
Mertdinç S., Ağaoğulları D., Tekoğlu E., Öveçoğlu M. L.  
METALS AND MATERIALS INTERNATIONAL, vol.26, no.6, pp.827-843, 2020 (Journal Indexed in SCI)
- IV. **Effects of oxide particles on the microstructural and mechanical properties of W-Ni-WB composites**  
Ovalı Döndaş D., Balci O., Ağaoğulları D., Öveçoğlu M. L.  
PARTICULATE SCIENCE AND TECHNOLOGY, vol.38, no.3, pp.347-353, 2020 (Journal Indexed in SCI)
- V. **Characterization investigations of the mechanically alloyed and sequentially milled Al-12.6 wt.% Si eutectic alloy powders**  
Tekoğlu E., Ağaoğulları D., Övecoglu M. L.  
PARTICULATE SCIENCE AND TECHNOLOGY, vol.38, no.1, pp.15-22, 2020 (Journal Indexed in SCI)
- VI. **Characterization of mechanically alloyed and pressureless sintered Al-7 wt% Si-2 wt% LaB<sub>6</sub>-2 wt% (MoSi<sub>2</sub>, WSi<sub>2</sub>) hybrid composites**  
Tekoğlu E., Yurekturk Y., Ağaoğulları D., Ovalı D., Mertdinç S., Öveçoğlu M. L.  
ADVANCED POWDER TECHNOLOGY, vol.30, no.11, pp.2626-2635, 2019 (Journal Indexed in SCI)
- VII. **Investigation of indentation and dry sliding wear behaviour of Al-12.6 wt.% Si-10 wt.% TiB<sub>2</sub> composites produced by sequential milling and pressureless sintering**  
Tekoglu E., Yurekturk Y., Ağaoğulları D., Dilawary S. A. A. , Baydoğan M., Öveçoğlu M. L.  
INTERNATIONAL JOURNAL OF MATERIALS RESEARCH, vol.110, no.11, pp.1047-1057, 2019 (Journal Indexed in SCI)
- VIII. **Effects of different milling conditions on the properties of lanthanum hexaboride nanoparticles and their sintered bodies**  
Ağaoğulları D., Balci O., Akcamli N., Duman İ., Öveçoğlu M. L.  
CERAMICS INTERNATIONAL, vol.45, no.15, pp.18236-18246, 2019 (Journal Indexed in SCI)
- IX. **Synthesis and characterization of vanadium boride powders and their sintered bodies**  
Balci O., Ağaoğulları D., Suryanarayana C., Duman İ., Öveçoğlu M. L.  
MATERIALS RESEARCH EXPRESS, vol.6, no.9, 2019 (Journal Indexed in SCI)
- X. **Mechanochemical synthesis of tungsten carbide powders induced by magnesiothermic reduction of WCl<sub>6</sub> and Na<sub>2</sub>CO<sub>3</sub> raw materials**  
Aytakin N. O. , Ağaoğulları D., Öveçoğlu M. L.  
MATERIALS RESEARCH EXPRESS, vol.6, no.9, 2019 (Journal Indexed in SCI)
- XI. **Room-temperature synthesis of tungsten silicide powders using various initial systems**  
Ovalı Döndaş D., Ağaoğulları D., Öveçoğlu M. L.  
INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS, vol.82, pp.58-68, 2019 (Journal Indexed in SCI)
- XII. **Effects of ZrC content and mechanical alloying on the microstructural and mechanical properties of**

**hypoeutectic Al-7 wt.% Si composites prepared by spark plasma sintering**

Ağaoğulları D.

CERAMICS INTERNATIONAL, vol.45, no.10, pp.13257-13268, 2019 (Journal Indexed in SCI)

- XIII. **Mechanochemical synthesis and characterisation of niobium silicide nanoparticles**  
Ovalı Döndaş D., Ağaoğulları D., Öveçoğlu M. L.  
CERAMICS INTERNATIONAL, vol.45, no.8, pp.10654-10663, 2019 (Journal Indexed in SCI)
- XIV. **Mechanochemical synthesis and consolidation of nanostructured cerium hexaboride**  
Ağaoğulları D., Balci O., Akcamli N., Suryanarayana C., Duman İ., Öveçoğlu M. L.  
PROCESSING AND APPLICATION OF CERAMICS, vol.13, no.1, pp.32-43, 2019 (Journal Indexed in SCI)
- XV. **Characterization of LaB<sub>6</sub> particulate-reinforced eutectic Al-12.6 wt% Si composites fabricated via mechanical alloying and spark plasma sintering**  
Tekoglu E., Ağaoğulları D., Yurekturk Y., BULUT B., Öveçoğlu M. L.  
POWDER TECHNOLOGY, vol.340, pp.473-483, 2018 (Journal Indexed in SCI)
- XVI. **Synthesis of LaB<sub>6</sub>-Al<sub>2</sub>O<sub>3</sub> nanocomposite powders via ball milling-assisted annealing**  
Tekoğlu E., Imer C., Ağaoğulları D., Öveçoğlu M. L.  
JOURNAL OF MATERIALS SCIENCE, vol.53, no.19, pp.13538-13549, 2018 (Journal Indexed in SCI)
- XVII. **Microstructural characterizations and mechanical properties of NbB<sub>2</sub> and VB particulate-reinforced eutectic Al-12.6 wt% Si composites via powder metallurgy method**  
Tekoglu E., Ağaoğulları D., Mertdinç S., PAKSOY A. H. , Öveçoğlu M. L.  
ADVANCED POWDER TECHNOLOGY, vol.29, no.9, pp.2070-2081, 2018 (Journal Indexed in SCI)
- XVIII. **Effect of cryomilling on matrix/reinforcement interfaces and properties of Al-TiB<sub>2</sub> composites**  
Balci O., Ağaoğulları D., Gokce H., Öveçoğlu M. L. , Somer M.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.757, pp.393-402, 2018 (Journal Indexed in SCI)
- XIX. **Mechanochemically synthesized Fe<sub>2</sub>B nanoparticles embedded in SiO<sub>2</sub> nanospheres**  
Mertdinç S., Ağaoğulları D., Öveçoğlu M. L.  
CERAMICS INTERNATIONAL, vol.44, no.12, pp.14834-14843, 2018 (Journal Indexed in SCI)
- XX. **Influence of the milling process on TiB<sub>2</sub> particle reinforced Al-7 wt.% Si matrix composites**  
Mertdinç S., Tekoglu E., Ağaoğulları D., Öveçoğlu M. L.  
MATERIALS TESTING, vol.60, pp.719-726, 2018 (Journal Indexed in SCI)
- XXI. **Characterization of SiO<sub>2</sub>-encapsulated WSi<sub>2</sub>/W<sub>5</sub>Si<sub>3</sub> nanoparticles synthesized by a mechanochemical route**  
Ovalı Döndaş D., Ağaoğulları D., Öveçoğlu M. L.  
CERAMICS INTERNATIONAL, vol.44, no.8, pp.9442-9453, 2018 (Journal Indexed in SCI)
- XXII. **Effects of milling parameters on the microstructural and thermal properties of nanocrystalline lanthanum hexaboride powders**  
Ağaoğulları D., Balci O., Öveçoğlu M. L. , Duman İ.  
JOURNAL OF THE AUSTRALIAN CERAMIC SOCIETY, vol.54, no.1, pp.177-190, 2018 (Journal Indexed in SCI)
- XXIII. **Effects of reinforcement content and sequential milling on the microstructural and mechanical properties of TiB<sub>2</sub> particulate-reinforced eutectic Al-12.6 wt% Si composites**  
Tekoglu E., Ağaoğulları D., Mertdinç S., Öveçoğlu M. L.  
JOURNAL OF MATERIALS SCIENCE, vol.53, no.4, pp.2537-2552, 2018 (Journal Indexed in SCI)
- XXIV. **Characterization investigations of a Al-5 wt.% Si/2 wt% (NbB<sub>2</sub>, NbC) hybrid composite fabricated via mechanically alloying and sequentially milling (mechanical alloying + cryomilling)**  
Lütfi Öveçoğlu M., Tekoğlu E., Mertdinç S., Ağaoğulları D.  
Key Engineering Materials, pp.35-39, 2018 (Journal Indexed in SCI Expanded)
- XXV. **Synthesis of bulk nanocrystalline HfB<sub>2</sub> from HfCl<sub>4</sub>-NaBH<sub>4</sub>-Mg ternary system**  
AKCAMLI N., Ağaoğulları D., Balci O., Öveçoğlu M. L. , Duman İ.  
JOURNAL OF MATERIALS SCIENCE, vol.52, no.21, pp.12689-12705, 2017 (Journal Indexed in SCI)
- XXVI. **Synthesis and characterization of graphite-encapsulated iron nanoparticles from ball milling-assisted low-pressure chemical vapor deposition**  
Ağaoğulları D., Madsen S. J. , Ogut B., Koh A. L. , Sinclair R.

- CARBON, vol.124, pp.170-179, 2017 (Journal Indexed in SCI)
- XXVII. **Effect of milling type on the microstructural and mechanical properties of W-Ni-ZrC-Y2O3 composites**  
AĞAOĞULLARI D., Balci O., Öveçoğlu M. L.  
CERAMICS INTERNATIONAL, vol.43, no.9, pp.7106-7114, 2017 (Journal Indexed in SCI)
- XXVIII. **Effects of excess reactant amounts on the mechanochemically synthesized molybdenum silicides from MoO<sub>3</sub>, SiO<sub>2</sub> and Mg blends**  
Ovalı D., AĞAOĞULLARI D., Öveçoğlu M. L.  
International Journal of Refractory Metals and Hard Materials, vol.65, pp.19-24, 2017 (Journal Indexed in SCI Expanded)
- XXIX. **Microstructural Evaluation of ZrB<sub>2</sub>/ZrO<sub>2</sub> Ceramic Powders Prepared by Milling-Assisted Magnesiothermic Reduction of Oxide Raw Materials**  
Agaogullari D., Balci O., Ovecoglu M. L., Duman I.  
KONA POWDER AND PARTICLE JOURNAL, no.34, pp.183-196, 2017 (Journal Indexed in SCI)
- XXX. **Mechanical activation-assisted autoclave processing and sintering of HfB<sub>2</sub>-HfO<sub>2</sub> ceramic powders**  
Akcamlı N., AGAOGULLARI D., BALCI O., Öveçoğlu M. L., Duman I.  
CERAMICS INTERNATIONAL, vol.42, no.13, pp.14642-14655, 2016 (Journal Indexed in SCI)
- XXXI. **Effect of sintering techniques on the microstructure and mechanical properties of niobium borides**  
Balci O., AGAOGULLARI D., MUHAFFEL F., Öveçoğlu M. L., CIMENOGLU H., Duman I.  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.36, no.13, pp.3113-3123, 2016 (Journal Indexed in SCI)
- XXXII. **Synthesis of triclinic and hexagonal SmBO<sub>3</sub> powders by mechanically activated annealing of Sm<sub>2</sub>O<sub>3</sub> and B<sub>2</sub>O<sub>3</sub> blends**  
Akcamlı N., AGAOGULLARI D., BALCI O., Öveçoğlu M. L., Duman I.  
CERAMICS INTERNATIONAL, vol.42, no.8, pp.10045-10057, 2016 (Journal Indexed in SCI)
- XXXIII. **Synthesis of niobium borides by powder metallurgy methods using Nb<sub>2</sub>O<sub>5</sub>, B<sub>2</sub>O<sub>3</sub> and Mg blends**  
Balci O., AGAOGULLARI D., Öveçoğlu M. L., DUMAN I.  
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.26, no.3, pp.747-758, 2016 (Journal Indexed in SCI)
- XXXIV. **Synthesis of HfB<sub>2</sub> powders by mechanically activated borothermal reduction of HfCl<sub>4</sub>**  
Akcamlı N., AGAOGULLARI D., BALCI O., Öveçoğlu M. L., Duman I.  
CERAMICS INTERNATIONAL, vol.42, no.3, pp.3797-3807, 2016 (Journal Indexed in SCI)
- XXXV. **Preparation of LaB<sub>6</sub> Powders via Calciothermic Reduction using Mechanochemistry and Acid Leaching**  
Ağaoğulları D., BALCI O., Öveçoğlu M. L., Duman I.  
KONA POWDER AND PARTICLE JOURNAL, no.33, pp.203-218, 2016 (Journal Indexed in SCI)
- XXXVI. **Synthesis of bulk nanocrystalline samarium hexaboride**  
Ağaoğulları D., BALCI O., Öveçoğlu M. L., Suryanarayana C., Duman I.  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.35, no.15, pp.4121-4136, 2015 (Journal Indexed in SCI)
- XXXVII. **In situ synthesis of NbB<sub>2</sub>-NbC composite powders by milling-assisted carbothermal reduction of oxide raw materials**  
Balci O., AGAOGULLARI D., OVALI D., Öveçoğlu M. L., Duman I.  
ADVANCED POWDER TECHNOLOGY, vol.26, no.4, pp.1200-1209, 2015 (Journal Indexed in SCI)
- XXXVIII. **Effect of Milling Time and the Consolidation Process on the Properties of Al Matrix Composites Reinforced with Fe-Based Glassy Particles**  
Balci O., PRASHANTH K. G., SCUDINO S., AGAOGULLARI D., Duman I., Öveçoğlu M. L., UHLENWINKEL V., ECKERT J.  
METALS, vol.5, no.2, pp.669-685, 2015 (Journal Indexed in SCI)
- XXXIX. **Influence of TiB<sub>2</sub> particle size on the microstructure and properties of Al matrix composites prepared via mechanical alloying and pressureless sintering**  
Balci O., AGAOGULLARI D., GOKCE H., Duman I., Öveçoğlu M. L.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.586, 2014 (Journal Indexed in SCI)
- XL. **Comparative investigations of the activated sintered W-1 wt.% Ni composites reinforced with**

**various oxide and boride particles**

Ağaoğulları D., BALCI O., GOKCE H., Öveçoğlu M. L. , Duman I.

INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS, vol.41, pp.577-584, 2013 (Journal Indexed in SCI)

- XLI. CALCIUM PHOSPHATE FORMATION FROM SEA URCHIN - (BRISSUS LATECARINATUS) VIA MODIFIED MECHANO-CHEMICAL (ULTRASONIC) CONVERSION METHOD**  
Samur R., Ozyegin L., Ağaoğulları D., Oktar F. N. , Agathopoulos S., KALKANDELEN C., Duman I., BEN-NISSAN B.  
METALURGIJA, vol.52, no.3, pp.375-378, 2013 (Journal Indexed in SCI)
- XLII. Characterization Investigations of W-Ni Matrix Composites Reinforced with TiB<sub>2</sub> and La<sub>2</sub>O<sub>3</sub>**  
GOKCE H., BALCI O., Ağaoğulları D., DEMIRKAN O. U. , Genç A. G. , Öveçoğlu M. L. , DUMAN I.  
ACTA PHYSICA POLONICA A, vol.123, no.2, pp.309-311, 2013 (Journal Indexed in SCI)
- XLIII. Synthesis of LaB<sub>6</sub> powders from La<sub>2</sub>O<sub>3</sub>, B<sub>2</sub>O<sub>3</sub> and Mg blends via a mechanochemical route**  
Ağaoğulları D., Duman I., Öveçoğlu M. L.  
CERAMICS INTERNATIONAL, vol.38, no.8, pp.6203-6214, 2012 (Journal Indexed in SCI)
- XLIV. Synthesis of Magnesium Borates by Mechanically Activated Annealing**  
Ağaoğulları D., BALCI O., GOKCE H., Duman I., Öveçoğlu M. L.  
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.7,  
pp.2520-2533, 2012 (Journal Indexed in SCI)
- XLV. Synthesis of CaB<sub>6</sub> powders via mechanochemical reaction of Ca/B<sub>2</sub>O<sub>3</sub> blends**  
Balci O., AGAOGULLARI D., Duman I., Öveçoğlu M. L.  
POWDER TECHNOLOGY, vol.225, pp.136-142, 2012 (Journal Indexed in SCI)
- XLVI. Influences of metallic Co and mechanical alloying on the microstructural and mechanical properties of TiB<sub>2</sub> ceramics prepared via pressureless sintering**  
Ağaoğulları D., GOKCE H., Duman I., Öveçoğlu M. L.  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.32, no.9, pp.1949-1956, 2012 (Journal Indexed in SCI)
- XLVII. Aluminum diboride synthesis from elemental powders by mechanical alloying and annealing**  
Ağaoğulları D., GOKCE H., Duman I., Öveçoğlu M. L.  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.32, no.7, pp.1457-1462, 2012 (Journal Indexed in SCI)
- XLVIII. Characterization investigations of ZrB<sub>2</sub>/ZrC ceramic powders synthesized by mechanical alloying of elemental Zr, B and C blends**  
Ağaoğulları D., GOKCE H., Duman I., Öveçoğlu M. L.  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.32, no.7, pp.1447-1455, 2012 (Journal Indexed in SCI)
- XLIX. Carbothermal production of ZrB<sub>2</sub>-ZrO<sub>2</sub> ceramic powders from ZrO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub>/B system by high-energy ball milling and annealing assisted process**  
Balci O., AGAOGULLARI D., Duman I., Öveçoğlu M. L.  
CERAMICS INTERNATIONAL, vol.38, no.3, pp.2201-2207, 2012 (Journal Indexed in SCI)
- L. Bioceramic Production from Sea Urchins**  
Ağaoğulları D., Kel D., GOKCE H., DUMAN I., Öveçoğlu M. L. , AKARSUBASI A. T. , Bilgic D., Oktar F. N.  
ACTA PHYSICA POLONICA A, vol.121, no.1, pp.23-26, 2012 (Journal Indexed in SCI)
- LI. Characterization of microstructural and thermal properties of steatite/cordierite ceramics prepared by using natural raw materials**  
Gokce H., AGAOGULLARI D., Öveçoğlu M. L. , Duman I., Boyraz T.  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.31, no.14, pp.2741-2747, 2011 (Journal Indexed in SCI)
- LII. HYDROXYAPATITE PRODUCTION WITH VARIOUS TECHNIQUES FROM SEA URCHIN**  
Kel D., KARACAYLI U., Yetmez M., GOKCE H., Ağaoğulları D., Öveçoğlu M. L. , Duman I., KAYALI E. S. , Oktar F. N.  
INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS, vol.34, no.8, pp.700, 2011 (Journal Indexed in SCI)
- LIII. Synthesis of alpha- and beta-Rhombohedral Boron Powders via Gas Phase Thermal Dissociation of Boron Trichloride by Hydrogen**  
Ağaoğulları D., BALCI O., Duman I., Öveçoğlu M. L.  
METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE, vol.42, no.3, pp.568-574, 2011 (Journal Indexed in SCI)

- LIV. **Nanocrystalline Tungsten Powders Synthesized from Uludağ Scheelite Concentrates via Mechanochemical Route**  
AĞAOĞULLARI D., BALCI O., Duman İ.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, no.11, pp.231-234, 2011 (Journal Indexed in SCI)
- LV. **Process Design for the Preparation of Micron-Scale Elemental Boron Powders by Chemical Vapor Deposition**  
BALCI O., Ağaoğulları D., Duman İ.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, no.11, pp.226-230, 2011 (Journal Indexed in SCI)
- LVI. **The Production of HfO<sub>2</sub>-HfB<sub>2</sub> Composite Powder from HfO<sub>2</sub>, B<sub>2</sub>O<sub>3</sub> and Mg by Solid State Reaction and Subsequent Annealing**  
BALCI O., AĞAOĞULLARI D., Duman İ.  
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, no.18, pp.91-98, 2010 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Effect of Ambient and Cryogenic Milling on the Microstructure and Properties of Tungsten Matrix Composites Fabricated by Activated Sintering**  
BALCI Ö., AĞAOĞULLARI D., SOMER M. S., ÖVEÇOĞLU M. L.  
Cumhuriyet Science Journal, vol.40, no.1, pp.204-212, 2019 (Other Refereed National Journals)
- II. **TiB<sub>2</sub> ve La<sub>2</sub>O<sub>3</sub> Partikül Takviyelerinin Mekanik Alaşımlama ve Aktifleştirilmiş Sinterleme ile Üretilen Volfram Matrisli Kompozitler Üzerindeki Etkisinin İncelenmesi**  
AĞAOĞULLARI D., BALCI Ö., GÖKÇE H., OVALI DÖNDAŞ D., ÖVEÇOĞLU M. L.  
Akademik Platform Mühendislik ve Fen Bilimleri Dergisi, vol.7, no.7, pp.95-105, 2019 (Other Refereed National Journals)
- III. **La<sub>2</sub>O<sub>3</sub> takviyesinin ve mekanik alaşımlamanın basınçsız sinterlenmiş Al<sub>15</sub>Si<sub>2</sub>,5Cu<sub>0,5</sub>Mg kompozitlerinin mikroyapısal ve mekanik özelliklerine etkisi**  
Tekoğlu E., AĞAOĞULLARI D., GÖKÇE H., ÖVEÇOĞLU M. L.  
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, no.2, pp.533-545, 2018 (Other Refereed National Journals)
- IV. **Lantan Oksit Takviyesinin Steatit-Kordiyerit Seramiklerinin Fiziksel, Mikroyapısal ve Mekaniksel Özellikleri Üzerindeki Etkisi**  
GÖKÇE H., AĞAOĞULLARI D.  
Afyon Kocatepe Üniversitesi Fen Ve Mühendislik Bilimleri Dergisi, vol.18, no.2, pp.629-639, 2018 (Other Refereed National Journals)
- V. **Effect of tungsten disilicide addition on tungsten boride based composites produced by milling-assisted pressureless sintering**  
OVALI DÖNDAŞ D., AĞAOĞULLARI D., GÖKÇE H., ÖVEÇOĞLU M. L.  
Bor Dergisi, vol.3, no.1, pp.42-50, 2018 (Other Refereed National Journals)
- VI. **Otoklavda sentezlenen ZrB<sub>2</sub>-ZrO<sub>2</sub> tozlarının farklı tekniklerle sinterlenmesi ve yığın yapıların mikroyapısal ve bazı mekanik özelliklerinin incelenmesi**  
BALCI O., AĞAOĞULLARI D., AKCAMLI N., Öveçoğlu M. L., Duman İ.  
BOR DERGİSİ, no.3, 2017 (Other Refereed National Journals)
- VII. **Borür-Karbür Esaslı Kompozit Tozların Öğütme Destekli Karbotermik Redüksiyon Yöntemi ile Ekonomik Yoldan Üretimi**  
BALCI Ö., AĞAOĞULLARI D.  
Metalurji, vol.178, pp.40-44, 2016 (National Non-Refereed Journal)
- VIII. **Çeşitli Metal Borürlerin Mekanokimyasal Sentezleme ve Mekanik Alaşımlama Yöntemleri ile Üretimi**  
BALCI Ö., AĞAOĞULLARI D.  
Metalurji, vol.160, pp.26-30, 2012 (National Non-Refereed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Preparation of samarium borate powders via mechanically activated annealing**  
AĞAOĞULLARI D., AKCAMLI N., BALCI Ö., Duman İ., OVECOGLU M. L.  
3rd International Conference on Recent Trends in Structural Materials, Plzen, Czech Republic, 19 November 2014 - 21 November 2104
- II. **Mechanochemically assisted synthesis of HfB<sub>2</sub> from HfCl<sub>4</sub> and B powder blend**  
AKCAMLI N., AĞAOĞULLARI D., BALCI Ö., Duman İ., OVECOGLU M. L.  
3rd International Conference on Recent Trends in Structural Materials, Plzen, Czech Republic, 19 November 2014 - 21 November 2104
- III. **Mechanochemical synthesis of tungsten silicides starting from different powder blends**  
OVALI DÖNDAŞ D., AĞAOĞULLARI D., ÖVEÇOĞLU M. L.  
International Conference on Engineering Technologies (ICENTE'18), Konya, Turkey, 26 - 28 October 2018
- IV. **Characterization Investigations of Sequentially Milled and Sintered Al-7 wt. Si-2 wt. LaB<sub>6</sub> Composites**  
MERTDİNÇ S., TEKOĞLU E., AĞAOĞULLARI D., ÖVEÇOĞLU M. L.  
SERES 2018, Eskişehir, Turkey, 13 - 15 October 2018
- V. **Synthesis of HfB<sub>2</sub>-HfC Nanocomposite Powders via Ball-Milling Assisted Annealing**  
Tekoğlu E., AĞAOĞULLARI D., MERTDİNÇ S., ÖVEÇOĞLU M. L.  
IV. International Ceramic, Glass, Porcelain, Enamel, Glaze and Pigment Congress (SERES 2018), Eskişehir, Turkey, 10 - 12 October 2018, pp.537
- VI. **In situ Synthesis of WB<sub>2</sub>/WC Composite Powders from WO<sub>3</sub> and Native B<sub>2</sub>O<sub>3</sub> Sources via Solid State Synthesis Methods**  
ŞENYURT B., AĞAOĞULLARI D., AKCAMLI N.  
1st International Symposium on Graduate Research in Science Focus on Entrepreneurship and Innovation (ISGRS 2018), İstanbul, Turkey, 4 - 06 October 2018, pp.54
- VII. **COMPARATIVE INVESTIGATIONS OF THE MECHANICALLY ALLOYED AND PRESSURELESS SINTERED AL-7 WT. SI COMPOSITES REINFORCED WITH VARIOUS BORIDE PARTICLES**  
MERTDİNÇ S., TEKOĞLU E., AĞAOĞULLARI D., ÖVEÇOĞLU M. L.  
IV INTERNATIONAL SCIENTIFIC CONFERENCE ????RIAL SCIENCE NONEQUILIBRIUM PHASES, Varna, Bulgaria, 23 - 25 September 2018
- VIII. **MICROSTRUCTURAL AND MECHANICAL INVESTIGATION OF LAB<sub>6</sub>REINFORCED AL12.6SI MMCS SYNTESIZED BY MECHANICALALLOYING**  
TEKOĞLU E., MERTDİNÇ S., AĞAOĞULLARI D., ÖVEÇOĞLU M. L.  
MTM 2017, İstanbul, Turkey, 26 - 27 November 2017
- IX. **Microstructural and Mechanical Investigation of LaB<sub>6</sub> Reinforced Al12.6Si MMCs Synthesized by Mechanical Alloying**  
Tekoğlu E., MERTDİNÇ S., AĞAOĞULLARI D., ÖVEÇOĞLU M. L.  
International Materials Technologies and Metallurgy Conference 2017 (MTM 2017), İstanbul, Turkey, 26 - 27 October 2017, pp.173-176
- X. **Synthesis of W<sub>2</sub>C and WC powders via mechanical activation-assisted autoclave processing**  
ÖZKAN AYTEKİN N., AĞAOĞULLARI D., ÖVEÇOĞLU M. L.  
European Congress and Exhibition on Advanced Materials and Processes (EUROMAT 2017), Selanik, Greece, 17 - 22 September 2017
- XI. **Fabrication and characterization of Al-5 wt. Si matrix composites reinforcedwith various boride particles**  
AĞAOĞULLARI D., MERTDİNÇ S., TEKOĞLU E., ÖVEÇOĞLU M. L.  
YUCOMAT 2017, Herceg Novi, Serbia And Montenegro, 4 - 08 September 2017, pp.73
- XII. **Mechanochemical synthesis and silica encapsulation of iron boride nanoparticles**  
MERTDİNÇ S., AĞAOĞULLARI D., ÖVEÇOĞLU M. L.  
INCOME 2017, Koshice, Slovakia, 3 - 07 September 2017, pp.73
- XIII. **In-situ formation of VB<sub>2</sub>/VC composite powders from oxide rawmaterials via powder metallurgy**

**processes**

AĞAOĞULLARI D., MERTDİNÇ S., TEKOĞLU E., BALCI Ö., ÖVEÇOĞLU M. L.  
ECERS 2017, Budapest, Hungary, 9 - 13 July 2017, pp.630

- XIV. **EFFECT OF MECHANICAL ALLOYING ON THE TiB<sub>2</sub> PARTICULATE REINFORCED Al-7 wt. Si MATRIX COMPOSITES**  
MERTDİNÇ S., TEKOĞLU E., GÖKÇE H., AĞAOĞULLARI D., ÖVEÇOĞLU M. L.  
BRAMAT 2017, Brasov, Romania, 7 - 11 March 2017, pp.24
- XV. **EFFECT OF SEQUENTIAL MILLING (MECHANICAL ALLOYING-CRYOGENIC MILLING) ON THE MICROSTRUCTURAL AND MECHANICAL PROPERTIES OF TiB<sub>2</sub> REINFORCED Al-12.6 WT. Si MMCs**  
TEKOĞLU E., MERTDİNÇ S., AĞAOĞULLARI D., ÖVEÇOĞLU M. L.  
BRAMAT 2017, Brasov, Romania, 7 - 11 March 2017, pp.119
- XVI. **Influence of La<sub>2</sub>O<sub>3</sub> x 0.5 to 5 wt addition on the microstructure and mechanical properties of mechanically alloyed Al 15Si 2.5Cu 0.5Mg alloys**  
TEKOĞLU E., MERTDİNÇ S., GÖKÇE H., AĞAOĞULLARI D., ÖVEÇOĞLU M. L.  
ICMPM 2016, 14 - 17 December 2016
- XVII. **Characterization Investigations of Mechanically Alloyed and Sintered Al-17 wt. Si Matrix Composites Reinforced with Graphene Nanoplatelets**  
AĞAOĞULLARI D., GÖKÇE H., ÖVEÇOĞLU M. L.  
3rd Emerging 2D Materials Graphene Conference (Graphene), İstanbul, Turkey, 20 - 21 October 2016, pp.38
- XVIII. **Development and characterization of mechanically alloyed and sintered (Al-7wt.%Si)-2wt.%VB composites**  
Mertdinç S., Tekoğlu E., Ağaoğulları D., Gökçe H., Öveçoğlu M. L.  
Proceedings of the 2nd World Congress on Mechanical, Chemical, and Material Engineering, MCM 2016, Budapest, Hungary, 22 - 23 August 2016
- XIX. **Effect of NbB<sub>2</sub> addition on the microstructure and mechanical properties of mechanically alloyed Al-12.6Si alloys**  
Tekoğlu E., Mertdinç S., Gökçe H., Ağaoğulları D., Öveçoğlu M. L.  
Proceedings of the 2nd World Congress on Mechanical, Chemical, and Material Engineering, MCM 2016, Budapest, Hungary, 22 - 23 August 2016
- XX. **Synthesis and characterization investigations of laboratory- synthesized VB-VB<sub>2</sub>-V<sub>3</sub>B<sub>4</sub> reinforced Al-7wt.% Si composites via mechanical alloying and pressureless sintering**  
Mertdinç S., Tekoğlu E., GÖKÇE H., Ağaoğulları D., Öveçoğlu M. L.  
International Conference on Functional Materials and Metallurgy, ICFMM 2016, Shanghai, China, 3 - 05 August 2016, pp.189-194
- XXI. **Characterization of WC powders synthesized via mechano-chemical alloying**  
ÖZKAN AYTEKİN N., AĞAOĞULLARI D., ÖVEÇOĞLU M. L.  
1st International Conference on Materials Design and Applications 2016, Porto, Portugal, 30 June - 01 July 2016
- XXII. **Studies on the Fabrication and Characterization of Ni activated sintered W composites hybridized with boride/carbide/oxide particles**  
AĞAOĞULLARI D., BALCI Ö., ÖVEÇOĞLU M. L.  
23rd International Symposium on Metastable, Amorphous and Nanostructured Materials (ISMANAM 2016), Nara, Japan, 3 - 08 July 2016, pp.161
- XXIII. **DEVELOPMENT AND CHARACTERIZATION OF LaB<sub>6</sub> REINFORCED Al-5 WT.% Si HYBRID POWDERS AND COMPOSITES PREPARED BY MECHANICAL ALLOYING AND PRESSURELESS SINTERING**  
ERDOĞAN E. B. , Mertdinç S., Tekoğlu E., Ağaoğulları D., Öveçoğlu M. L.  
25th Anniversary International Conference on Metallurgy and Materials (METAL), Brno, Czech Republic, 25 - 27 May 2016, pp.1234-1240
- XXIV. **SYNTHESIS AND CHARACTERIZATION INVESTIGATIONS OF Al-7 WT.% Si COMPOSITES HYBRIDIZED WITH LABORATORY-SYNTHESIZED NbB-NbB<sub>2</sub>-Nb<sub>3</sub>B<sub>4</sub> PARTICLES VIA MECHANICAL ALLOYING AND PRESSURELESS SINTERING**  
Mertdinç S., ERDOĞAN E. B. , Tekoğlu E., GÖKÇE H., Ağaoğulları D., Öveçoğlu M. L.



25th Anniversary International Conference on Metallurgy and Materials (METAL), Brno, Czech Republic, 25 - 27 May 2016, pp.1241-1247

- XXV. **Effect of Process Control Agent on the Microstructural and Thermal Properties of Nanocrystalline Lanthanum Hexaboride Powders**  
AĞAOĞULLARI D., BALCI Ö., OVECOGLU M. L. , Duman İ.  
IXth Ceramic Congress with International Participation, Afyon, Turkey, 26 - 28 November 2015
- XXVI. **Microstructure and Mechanical Properties of the Sintered Niobium Borides**  
BALCI Ö., AĞAOĞULLARI D., MUHAFFEL F., OVECOGLU M. L. , CIMENOGLU H., Duman İ.  
IXth Ceramic Congress with International Participation, Afyon, Turkey, 26 - 28 November 2015
- XXVII. **The Effect of Milling Type on the Properties of Bulk Nanocrystalline Lanthanum Hexaboride**  
AĞAOĞULLARI D., BALCI Ö., OVECOGLU M. L. , Duman İ.  
IXth Ceramic Congress with International Participation, Afyon, Turkey, 26 - 28 November 2015
- XXVIII. **Synthesis of niobium boride-niobium carbide powders via mechanical milling and annealing processes**  
BALCI Ö., AĞAOĞULLARI D., Ovalı Döndaş D., Duman İ., OVECOGLU M. L.  
3th International Ceramic Glass Porcelain Enamel Glaze and Pigment Congress, Eskişehir, Turkey, 15 - 17 September 2014
- XXIX. **Mechanochemical Synthesis of HfB<sub>2</sub>-HfO<sub>2</sub> Ceramic Powders from HfCl<sub>4</sub>-B<sub>2</sub>O<sub>3</sub>-Mg System**  
AKCAMLI N., AĞAOĞULLARI D., BALCI Ö., Duman İ., OVECOGLU M. L.  
3th International Ceramic Glass Porcelain Enamel Glaze and Pigment Congress, Eskişehir, Turkey, 15 - 17 September 2014
- XXX. **Effect of WB Addition on the Mechanically Alloyed and Ni activated Sintered W Matrix Composites**  
Ovalı Döndaş D., BALCI Ö., AĞAOĞULLARI D., Duman İ., OVECOGLU M. L.  
3th International Ceramic Glass Porcelain Enamel Glaze and Pigment Congress, Eskişehir, Turkey, 15 - 17 September 2014
- XXXI. **The Effect of Reaction Temperature on the Synthesis of Elemental Boron Powders**  
AĞAOĞULLARI D., BALCI Ö., AKCAMLI N., Duman İ., OVECOGLU M. L.  
17th International Metallurgy and Materials Congress, İstanbul, Turkey, 11 - 13 September 2014
- XXXII. **Characterization Investigations of Mechanochemically Synthesized VB<sub>2</sub>, VB and V<sub>3</sub>B<sub>4</sub> Powders**  
BALCI Ö., AĞAOĞULLARI D., Duman İ., OVECOGLU M. L.  
17th International Metallurgy and Materials Congress, İstanbul, Turkey, 11 - 13 September 2014
- XXXIII. **System Design for Production of ZrB<sub>2</sub> Powder from ZrCl<sub>4</sub>-BCl<sub>3</sub>-H<sub>2</sub> Gas Mixtures by Hot-Surface CVD**  
Bolluk M., Duman İ., AĞAOĞULLARI D., BALCI Ö., Mühür T. A.  
18th International Symposium on Boron, Borides and Related Materials, 31 August - 05 September 2014
- XXXIV. **Synthesis and Consolidation of Samarium Hexaboride Nanoparticles**  
AĞAOĞULLARI D., BALCI Ö., Duman İ., OVECOGLU M. L.  
18th International Symposium on Boron, Borides and Related Materials, 31 August - 05 September 2014
- XXXV. **Investigations on Microstructural Evolution of Vanadium Borides Mechanicchemically Synthesized by Using Various Amounts of V<sub>2</sub>O<sub>5</sub>, B<sub>2</sub>O<sub>3</sub> and Mg**  
BALCI Ö., AĞAOĞULLARI D., Ovalı Döndaş D., Duman İ., OVECOGLU M. L.  
International Conference on Structural Nano Composites, Madrid, Spain, 20 - 21 May 2014
- XXXVI. **Development and Characterization of CeB<sub>6</sub> Nanopowders and Sintered Products**  
AĞAOĞULLARI D., BALCI Ö., Duman İ., OVECOGLU M. L.  
International Conference on Structural Nano Composites, Madrid, Spain, 20 - 21 May 2014
- XXXVII. **Thermodynamical Interpretations and Experimental Studies on the Formation of Amorphous Boron Powders via CVD Method using various H<sub>2</sub> Flow Rates**  
AKCAMLI N., BALCI Ö., AĞAOĞULLARI D., Duman İ., OVECOGLU M. L.  
International Conference on Structural Nano Composites, Madrid, Spain, 20 - 21 May 2014
- XXXVIII. **Effects of La<sub>2</sub>O<sub>3</sub> Addition on the Properties of Mechanically Alloys and Sintered W-1 wt.% Ni-2 wt.% WB Composites**  
Ovalı Döndaş D., BALCI Ö., AĞAOĞULLARI D., GOKCE H., OVECOGLU M. L. , Duman İ.

AMWC 2013: Advanced Materials World Congress, İzmir, Turkey, 16 - 19 October 2013

- XXXIX. **Effect of Mechanical Milling on the Microstructure of Niobium Boride Powders Synthesized by Magnesiothermic and Carbothermic Reductions**  
BALCI Ö., AĞAOĞULLARI D., Duman İ., OVECOGLU M. L.  
ICMAT 2013: 7th International Conference on Materials for Advanced Technologies, Suntec, Singapore, 30 June - 05 July 2013
- XL. **Effects of Milling Duration and Annealing Temperature on the Microstructure and Properties of ZrB<sub>2</sub> Powders**  
AĞAOĞULLARI D., BALCI Ö., Duman İ., OVECOGLU M. L.  
ICMAT 2013: 7th International Conference on Materials for Advanced Technologies, Suntec, Singapore, 30 June - 05 July 2013
- XLII. **Microstructural and Mechanical Evaluation of Al-xTiB<sub>2</sub> (x=5, 10, 15 wt.%) Composites Fabricated by Cryogenic Milling**  
AĞAOĞULLARI D., BALCI Ö., GOKCE H., Duman İ., OVECOGLU M. L.  
METAL 2013: 22nd International Conference on Metallurgy and Materials, Brno, Czech Republic, 15 - 17 May 2013
- XLII. **MICROSTRUCTURE AND PROPERTIES OF NANOCRYSTALLINE LAB(6) POWDERS SYNTHESIZED IN A HIGH ENERGY PLANETARY BALL MILL**  
Ağaoğulları D., BALCI O., Duman I., Öveçoğlu M. L.  
22nd International Conference on Metallurgy and Materials (METAL), Brno, Czech Republic, 15 - 17 May 2013, pp.1395-1400
- XLIII. **Synthesis of Calcium Boride Powders via Mechanochemical Route**  
BALCI Ö., AĞAOĞULLARI D., Duman İ., OVECOGLU M. L.  
IFW Winterschool 2013, Oberwiesenthal, Germany, 20 - 23 January 2013
- XLIV. **Fabrication of W-1 wt.% Ni Matrix Composites Reinforced with TiB<sub>2</sub> and Y<sub>2</sub>O<sub>3</sub> via Mechanical Alloying at Ambient/Cryogenic Conditions and Activated Sintering Methods**  
BALCI Ö., GOKCE H., AĞAOĞULLARI D., OVECOGLU M. L. , Duman İ.  
ISNNM-2012: 12th International Symposium on Novel and Nano Materials, İstanbul, Turkey, 26 - 30 August 2012
- XLV. **Synthesis and Characterization of IVB Group Transition Metal Borides**  
AĞAOĞULLARI D., BALCI Ö., Duman İ., OVECOGLU M. L.  
ISNNM-2012: 12th International Symposium on Novel and Nano Materials, İstanbul, Turkey, 26 - 30 August 2012
- XLVI. **Microstructure Characterization and Mechanical Properties of Steatite/Cordierite Ceramics**  
AĞAOĞULLARI D., GOKCE H., Duman İ., Öveçoğlu M. L.  
ECERS XII 12th Conference of the European Ceramic Society, Stockholm, Sweden, 22 June 2011 - 22 June 2012
- XLVII. **Effects of Sequential Ball Milling at Ambient and Cryogenic Conditions on the Microstructure of W-1 wt.% Ni Compacts Reinforced with ZrC and Y<sub>2</sub>O<sub>3</sub> Particles**  
BALCI Ö., AĞAOĞULLARI D., GOKCE H., OVECOGLU M. L. , Duman İ.  
ISMANAM 2012: 19th International Symposium on Metastable, Amorphous and Nanostructured Materials, Moskova, Russia, 18 - 22 June 2012
- XLVIII. **Characterization of zeolite enriched-chitosan based wound dressing membrane**  
KARACAYLI U., Duman İ., AĞAOĞULLARI D., OKTAR F. N.  
APMAS 2012: 2nd International Advances in Applied Physics and Materials Science Congress, Antalya, Turkey, 26 - 29 April 2012
- XLIX. **Characterization Investigations of W-Ni Matrix Composites Reinforced with La<sub>2</sub>O<sub>3</sub> and TiB<sub>2</sub>**  
GOKCE H., BALCI Ö., DEMIRKAN O. U. , AĞAOĞULLARI D., GENÇ A., OVECOGLU M. L. , Duman İ.  
APMAS 2012: 2nd International Advances in Applied Physics and Materials Science Congress, Antalya, Turkey, 26 - 29 April 2012
- L. **Effects of La<sub>2</sub>O<sub>3</sub> Addition on the Microstructure and Properties of Activated Sintered W-Ni Compacts**  
BALCI O., DEMIRKAN O. U. , Ağaoğulları D., GOKCE H., GENÇ A., Öveçoğlu M. L. , Duman İ.  
18th International Conference on Solid Compounds of Transition elements (SCTE 2012), Lisbon, Portugal, 31 March - 05 April 2012, vol.194, pp.217-221

- LI. **Development of Mechanically Alloyed and Sintered W-1 wt.% Ni Matrix Composites Reinforced with TiB<sub>2</sub>**  
Ağaoğulları D., BALCI O., DEMIRKAN O. U. , GOKCE H., GENÇ A., Öveçoğlu M. L. , Duman İ.  
18th International Conference on Solid Compounds of Transition elements (SCTE 2012), Lisbon, Portugal, 31 March - 05 April 2012, vol.194, pp.194-198
- LII. **A Comparison between Experiment Results and Predictions in BCl<sub>3</sub>-H<sub>2</sub> System Utilizing FTIR and FactSage Modelling**  
BALCI Ö., AĞAOĞULLARI D., Duman İ., Derin B.  
17th International Symposium on Boron, Borides and Related Materials, İstanbul, Turkey, 11 - 17 September 2011
- LIII. **Characterization Investigations of Mechanically Alloyed and Sintered Al matrix Composites Reinforced with Nano-ZrC and La<sub>2</sub>O<sub>3</sub> Particles**  
GOKCE H., AĞAOĞULLARI D., Duman İ., Öveçoğlu M. L.  
International Conference on Sintering 2011, Jehu Island, North Korea, 28 August - 01 September 2011
- LIV. **Characterization Investigations of Lanthanum Oxide Reinforced Steatite-20 wt.% Cordierite Ceramics**  
GOKCE H., AĞAOĞULLARI D., Duman İ., Öveçoğlu M. L.  
International Conference on Sintering 2011, Jehu Island, South Korea, 28 August - 01 September 2011
- LV. **Investigation on the Structural, Physical and Mechanical Properties of La<sub>2</sub>O<sub>3</sub> Reinforced Cordierite Based Ceramics**  
GOKCE H., AĞAOĞULLARI D., Öveçoğlu M. L. , Duman İ.  
ECERS XII 12th Conference of the European Ceramic Society, Stockholm, Sweden, 23 June 2011
- LVI. **A Comparative Study on the Synthesis and Characterization of CaB<sub>6</sub> Powders**  
BALCI Ö., AĞAOĞULLARI D., Duman İ.  
ECERS XII 12th Conference of the European Ceramic Society, Stockholm, Sweden, 22 - 23 June 2011
- LVII. **A Sequential Process for Synthesizing Chromium Boride-Chromium Nitride Composite Powders**  
AĞAOĞULLARI D., BALCI Ö., GOKCE H., Duman İ., Öveçoğlu M. L.  
ECERS XII 12th Conference of the European Ceramic Society, Stockholm, Sweden, 22 - 23 June 2011
- LVIII. **Hydroxyapatite Production from Sea Urchins**  
AĞAOĞULLARI D., KEL D., GOKCE H., Duman İ., Öveçoğlu M. L. , OKTAR F. N.  
APMAS 2011 Advances in Applied Physics & Materials Science Congress, Antalya, Turkey, 14 May 2011
- LIX. **Influence of Co Metallic Additive on the Microstructural and Mechanical Properties of TiB<sub>2</sub> Ceramics Prepared via Mechanical Alloying and Pressureless Sintering**  
AĞAOĞULLARI D., GOKCE H., Duman İ., Öveçoğlu M. L.  
Engineering Ceramics 2011 from Materials to Components, Smolenice, Slovakia, 11 May 2011
- LX. **Carbothermal Production of ZrB<sub>2</sub>-ZrO<sub>2</sub> Ceramic Powders from ZrO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub>/B System by High-Energy Ball Milling and Annealing**  
BALCI Ö., AĞAOĞULLARI D., Duman İ.  
Engineering Ceramics 2011 from Materials to Components, Smolenice, Slovakia, 10 May 2011
- LXI. **The Production of LaB<sub>6</sub> by Hot-Powder CVD Method**  
BALCI Ö., AĞAOĞULLARI D., Duman İ.  
Engineering Ceramics 2011 from Materials to Components, Smolenice, Slovakia, 09 May 2011
- LXII. **Evaluation of the Effect of Residual Silver in Copper on the Cementation Process by Factorial Design and Multiple Regression Analysis**  
AĞAOĞULLARI D., Duman İ., Keleş Ö.  
TMS 2011 140th Annual Meeting and Exhibition, California, United States Of America, 28 February - 02 March 2011
- LXIII. **Characterization of Microstructural and Physical Properties of Y<sub>2</sub>O<sub>3</sub> Reinforced Cordierite Based Ceramic Materials**  
GOKCE H., BOYRAZ T., AĞAOĞULLARI D., Duman İ., Öveçoğlu M. L.  
13th International Materials Symposium, Session 9: Ceramics, Denizli, Turkey, 15 October 2010
- LXIV. **Novel Routes for Production of Different Metal Borides**  
AĞAOĞULLARI D., Duman İ.

- The Fifth International Annual Meeting of Alb-Science Institute, Tirane, Albania, 2 - 05 September 2010, pp.577
- LXV. **The Effect of La<sub>2</sub>O<sub>3</sub> Modification on the Microstructural and Mechanical Properties of YSZ Ceramics Prepared by Powder Metallurgy**  
Nilüfer B., GÖKÇE H., AĞAOĞULLARI D., ÇİMENÖĞLU H., ÖVEÇOĞLU M. L. , Duman İ.  
11th International Conference on Ceramic Processing Science (ICPCS-11 2010), Zürich, Switzerland, 29 August - 01 September 2010, pp.90
- LXVI. **CHARACTERIZATION OF MECHANICALLY ALLOYED AND SINTERED ZRC PARTICULATE REINFORCED AL MATRIX COMPOSITES**  
Ağaoğulları D., Gökçe H., GENÇ A., Duman I., Öveçoğlu M. L.  
19th International Conference on Metallurgy and Materials, Roznov Pod Radhostem, Czech Republic, 18 - 20 May 2010, pp.702-708
- LXVII. **MECHANISMS AND EFFECTS OF VARIOUS REDUCING AGENTS ON THE FABRICATION OF ELEMENTAL BORON**  
Ağaoğulları D., Balci O., Duman İ.  
19th International Conference on Metallurgy and Materials, Roznov Pod Radhostem, Czech Republic, 18 - 20 May 2010, pp.748-752
- LXVIII. **The Production of BCl<sub>3</sub> Gas from Mechanochemical Reaction Product Containing Elemental Boron and Magnesium Oxide**  
AĞAOĞULLARI D., BALCI Ö., Duman İ.  
139th Annual Meeting Exhibition (TMS 2010), Seattle, United States Of America, 14 - 18 February 2010, pp.303
- LXIX. **Synthesis of Titanium Diboride by Solid-State Reaction Between TiO<sub>2</sub>, B<sub>2</sub>O<sub>3</sub> and Mg**  
AĞAOĞULLARI D., Aynibal F., Demirhan O. C. , Duman İ.  
I. International Ceramic, Glass, Porcelain, Enamel, Glaze and Pigment Congress (SERES 2009), Eskişehir, Turkey, 12 - 14 October 2009, pp.1161-1173
- LXX. **A Room-Temperature Route for the Synthesis of Zirconium Diboride by Mechanochemical Reactions**  
AĞAOĞULLARI D., Aynibal F., Demirhan O. C. , Duman İ.  
Romanian Conference on Advanced Materials, 6th International Edition (ROCAM 2009), Brasov, Romania, 25 - 28 August 2009, pp.111
- LXXI. **CHANGES IN MICROSTRUCTURE AND MECHANICAL PROPERTIES OF CIP-PROCESSED TUNGSTEN RODS DURING ROTARY-SWAGING AND STRETCHING OPERATIONS**  
Duman İ., Ağaoğulları D.  
138th TMS Annual Meeting and Exhibition, San-Francisco, Costa Rica, 15 - 19 February 2009, pp.217-225
- LXXII. **Volframoksit Uygulanan Doplama İşleminin Termal Zorlanma Altındaki Volfram Tozu Tane Boyutuna Etkisi**  
Duman İ., AĞAOĞULLARI D., Ertürk S., Eke K.  
14th International Metallurgy Materials Congress (IMMC 2008), İstanbul, Turkey, 16 - 18 October 2008, pp.46
- LXXIII. **The Effect of Remaining Silver in Copper on the Cementation Process**  
Duman İ., Öngel D., AĞAOĞULLARI D.  
V Congress of the Metallurgists of Macedonia (BiCongress 08), Ohrid, Macedonia, 17 - 20 September 2008

## Supported Projects

Şimşek S., Ağaoğulları D., TUBITAK Project, Meme Kanserinin Tanısı İçin Magnetik-Nanoparçacık Temelli Mikrodalga Görüntüleme Teknolojisinin Geliştirilmesi, 2017 - Continues

Öveçoğlu M. L. , Ağaoğulları D., TUBITAK Project, Mekanik Alaşımlama Yöntemi İle Refrakter Yüksek Entropi Wnbmoverxaly (X, Y = 0 - 1,0) Alaşımlarının Sentezlenmesi, Çeşitli Süreçler Kullanılarak Yoğunlaştırılması/Sinterlenmesi Ve İlişkin Karakterizasyon Çalışmaları, 2020 - 2022

Ağaoğulları D., TUBITAK Project, Demir Esaslı Manyetik Nanopartiküllerin Farklı Teknikler Kullanarak Çok Katmanlı Grafen Tabakaları ile Kapsüllenmesi, Çekirdek/Kabuk Tipi Nanokapsüllerin Karakterizasyonu, ve Biyomedikal Uygulamalara Yönelik Performans Testlerinin Gerçekleştirilmesi, 2019 - 2021

Ağaoğulları D., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Ucuz Oksit Hammaddelerden Mekanokimyasal Sentezleme Yoluyla Üretilen Yüksek Safiyetteki Metal Borür (Ti, Zr, Hf, Ta, Mo, W, Cr, Mn borür) Tozlarından Yüksek Entropi Borür Seramiklerinin Sinterlenmesi ve İlişkin Karakterizasyon Çalışmaları, 2019 - 2021

Akçamlı N., Ağaoğulları D., TUBITAK Project, TÜBİTAK) 1001 Projesi, Proje No: 119M980, 2020-Devam ediyor, Araştırmacı. 4) "Yerli Grafen Nano Plakalarla Takviye Edilmiş Al-Si-Cu-Mg, Al-Cu-Mn-Mg ve Al-Zn-Mg-Cu Alaşım Matrisli Nano-Yapılı Kompozitlerin Toz Metalurjisi Yöntemleriyle Üretilmesi ve Mikroyapısal, Mekanik, Korozyon, Tribolojik ve Balistik Özelliklerinin İncelenmesi, 2018 - 2021

Ağaoğulları D., Project Supported by Higher Education Institutions, TiO<sub>2</sub> ve Yerli B<sub>2</sub>O<sub>3</sub> Hammaddelerinden Hareketle Katı-Hal Sentezleme Yöntemleriyle B<sub>4</sub>C/TiB<sub>2</sub>/TiC Kompozit Tozlarının Üretilmesi ve Bu Tozlardan Aşındırma Uygulamaları için Sinter Parça Geliştirilmesi, 2016 - 2021

Ağaoğulları D., Project Supported by Higher Education Institutions, Kanser Teşhisine/Tedavisine Yönelik Grafen ile Kapsüllenmiş Demir-Esaslı Manyetik Nanopartiküllerin Kimyasal Buhar Biriktirme Yöntemi ile Sentezlenmesi ve Karakterizasyonu, 2016 - 2021

Ağaoğulları D., Balcı Ö., TUBITAK Project, Kobalt-Metal-Bor (Metal=Ni, Fe, Ti) Esaslı Üçlü Metal Borürlerin Klorür Hammaddelerden Alternatif Düşük Sıcaklık Yöntemleri ile Sentezi, Karakterizasyonu ve Katalizör/Magnet/Hibrit Kompozit Üretimi Alanlarına Yönelik Uygulama Çalışmaları, 2017 - 2019

Ağaoğulları D., Project Supported by Higher Education Institutions, Grafen ile Kapsüllenmiş Demir Nanopartiküllerin Öğütme Destekli Düşük Basınç Kimyasal Buhar Biriktirme Yöntemi ile Sentezlenmesi ve Karakterizasyonu, 2016 - 2018

Ağaoğulları D., Project Supported by Higher Education Institutions, Ni ile aktifleştirilmiş Sinterleme Uygulanan ve Borür/Karbür/Oksit Partikülleri ile Hibritleştirilen Volfram Kompozitlerinin Üretimi ve Karakterizasyon Çalışmaları, 2016 - 2018

Ağaoğulları D., Öveçoğlu M. L. , Project Supported by Higher Education Institutions, Karbür Takviyeli W Matrisli Kompozitlerin Mekanik Alaşımlamayı Takiben Aktifleştirilmiş Sinterleme ile Üretilmesi, Karakterizasyonu ve Gama Radyasyonu Zırlama Davranışlarının İncelenmesi, 2016 - 2018

Ağaoğulları D., Sinclair R., Universities of Other Countries Supported Project, Center for Cancer Nanotechnology Excellence and Translation , 2014 - 2015

Ağaoğulları D., TUBITAK Project, Synthesis and Characterization Investigations of Graphite-Encapsulated Metallic Magnetic Nanoparticles for Various Medical Applications and Cancer Detection/Therapy, 2014 - 2015

Ağaoğulları D., Duman İ., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Yüksek Safılıkta Amorf Bor Tozunun Endüstriyel Boyuta Uyarlanabilir Üretimi, 2013 - 2015

Duman İ., TUBITAK Project, Çeşitli Uygulama Alanlarına Yönelik Refrakter Metal Borürlerin Üç Farklı Üretim Tekniği Kullanılarak Katı, Sıvı ve Gaz Hammaddelerden Sentezlenmesi, Sinterlenmesi, Karakterizasyonu, Yöntem ve Ürünlerin Karşılaştırılması, 2013 - 2014

Duman İ., Ağaoğulları D., Project Supported by Other Official Institutions, İTÜ Partikül Malzemeler ve Karakterizasyon Laboratuvar Olanakları ile İlişkili Endüstriyel Faaliyetler, 2013 - 2014

Ağaoğulları D., Arslan C., Development Agency, İstanbul'daki Soymetal İşleme ve Geri Kazanım Tesis Çalışanlarının ve Bunları Kamu Adına Denetleyen Mühendislerin Eğitimi, 2013 - 2014

Duman İ., TUBITAK Project, Kriyojenik ve Normal Şartlarda Yüksek Enerjili Öğütme Ortamında Mekanik Alaşımlama ve Aktive Edilmiş Sinterleme Süreçleri ile Volfram Esaslı Hibrit Kompozitlerin Geliştirilmesi ve Karakterizasyon Çalışmaları, 2013 - 2014

Duman İ., TUBITAK Project, Lantan, Seryum ve Samaryum Borürlerin Oda Sıcaklığında Katı-hal Reaksiyonu ile Sentezlenmesi, 2010 - 2011

Ağaoğulları D., Öveçoğlu M. L. , BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Elementer Saf Bor Tozunun Alternatif Bir Yöntemle Gaz Fazdan Üretilmesi", Ulusal Bor Araştırma Enstitüsü , 2009 - 2011

Duman İ., TUBITAK Project, CVD Yöntemiyle Metalik Bor Üretimine Uygun Saf Bortriklorür Eldesinde Infrared Lazer ile Fosgen Giderilmesi, 2006 - 2009

## Patent

Öveçoğlu M. L. , Duman İ., Ağaoğulları D., KİMYASAL BUHAR BİRİKTİRME YÖNTEMİ İÇİN TASARLANMIŞ BİR REAKTÖR

VE BU REAKTÖR İLE ELEMENTER BOR VE İLERİ SERAMİK TOZLARININ ÜRETİM YÖNTEMİ, Patent, CHAPTER C  
Chemistry; Metallurgy, Initial Registration

Duman İ., Ağaoğulları D., Balcı Ö., Öveçoğlu M. L. , A reactor designed for chemical vapor deposition method and method  
of producing elementalboron and advanced ceramic powders with this reactor, Patent, CHAPTER C Chemistry;  
Metallurgy, The Invention Registration Number: EP 2 735 544 A3 , Initial Registration, 2014

## Citations

Total Citations (WOS):452

h-index (WOS):13