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Personal Information

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Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), Turkey 1999 - 2004

Post Graduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Üretim Metalurjisi Ve Mühendisliği (YI), Turkey 1997 - 1999

Under Graduate, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 1993 - 1997

Foreign Languages

English

Dissertations

Doctorate, Kurşun Oksit İçeren Curufların Kükürt Kapasitelerinin İncelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği (Dr), 2004

Post Graduate, Kobaltın Alumina içeren Fayalitik Curuflardaki Çözünürlüğünün İncelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Üretim Metalurjisi Ve Mühendisliği (YI), 1999

Research Areas

Pyrometallurgy, Metallurgical and Materials Engineering, Production Metallurgy, Non-Ferrous Alloy Production, Iron and Steel Production, Recycling Processes, Non Metallic Materials Production, Engineering and Technology

Academic Titles / Tasks

Associate Professor, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2012 - Continues

Assistant Professor, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2007 - 2012

Research Assistant, İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 1998 - 2007

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, 2016 - Continues

İstanbul Teknik Üniversitesi, Bilim-Toplum Uygulama Ve Araştırma Merkezi, 2015 - Continues

İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2012 - Continues

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

- I. **Production of Mo₂MB₂-type (M = Ni, Fe, Co) ternary boride containing alloys by self-propagating high temperature synthesis**
Moghaddam S. R., Kaya F., Derin B.
Engineering Science and Technology, an International Journal, vol.22, no.6, pp.1193-1198, 2019 (Journal Indexed in SCI)
- II. **Influence of alumina and zirconia incorporations on the structure and wear resistance of titania-based MAO coatings**
Muhaffel F., Kaba M., Cenipura G., Derin B., Kruk A., Atar E., Çimenoğlu H.
Surface and Coatings Technology, vol.377, 2019 (Journal Indexed in SCI)
- III. **Minimizing of copper losses to converter slag by a boron compound addition**
Topçu M. A., Rüßen A., Derin B.
Journal of Materials Research and Technology, vol.8, no.6, pp.6244-6252, 2019 (Journal Indexed in SCI)
- IV. **Production of Mo₂NiB₂ Based Hard Alloys by Self-Propagating High-Temperature Synthesis**
Moghaddam S. R., Derin B., Yücel O., Sönmez M. Ş., SEZEN M., BAKAN F., Sanin V. N., Andreev D. E.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.38, pp.683-691, 2019 (Journal Indexed in SCI)
- V. **Enrichment of W₂B₅ from WO₃ and B₂O₃ by Double SHS Method**
Derin B., Yazici S.
MATERIALS SCIENCE-MEDZIAGOTYRA, vol.24, no.1, pp.35-38, 2018 (Journal Indexed in SCI)
- VI. **Thermochemical modeling and experimental studies on the formation of TiB₂ through carbothermic synthesis from TiO₂ and B₂O₃ or B₄C**
Derin B., Kurtoğlu K., SAHİN F. C., Yücel O.
CERAMICS INTERNATIONAL, vol.43, no.14, pp.10975-10982, 2017 (Journal Indexed in SCI)
- VII. **Effects of Some Additives on Copper Losses to Matte Smelting Slag**
Rusen A., GEVECİ A., TOPKAYA Y. A., Derin B.
JOM, vol.68, no.9, pp.2323-2331, 2016 (Journal Indexed in SCI)
- VIII. **Investigation of Copper Losses to Synthetic Slag at Different Oxygen Partial Pressures in the Presence of Colemanite**
Rusen A., Derin B., GEVECİ A., TOPKAYA Y. A.
JOM, vol.68, no.9, pp.2316-2322, 2016 (Journal Indexed in SCI)
- IX. **Phosphate, Phosphide, Nitride and Carbide Capacity Predictions of Molten Melts by Using an Artificial Neural Network Approach**
Derin B., ALAN E., Suzuki M., Tanaka T.
ISIJ INTERNATIONAL, vol.56, no.2, pp.183-188, 2016 (Journal Indexed in SCI)
- X. **An experimental study on grinding of Zr-based bulk metallic glass**
Bakkal M., SERBEST E., KARIPCIN I., KUZU A. T., KARAGUZEL U., Derin B.
Advances in Manufacturing, vol.3, no.4, pp.282-291, 2015 (Journal Indexed in SCI)
- XI. **Production of Al-Co-Ni Ternary Alloys by the SHS Method for Use in Nickel Based Superalloys Manufacturing**
Alkan M., Sönmez M. Ş., Derin B., YUCEL O., ANDREEV D. E., SANIN V. N., YUKHVID V. I.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.34, no.3, pp.275-283, 2015 (Journal Indexed in SCI)
- XII. **Synthesis and rheology of ferrofluids: a review**
Genc S., Derin B.
CURRENT OPINION IN CHEMICAL ENGINEERING, vol.3, pp.118-124, 2014 (Journal Indexed in SCI)
- XIII. **Effects of process parameters on tungsten boride production from WO₃ by self propagating high**

temperature synthesis

Yazici S., Derin B.

MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.178, no.1, pp.89-93, 2013 (Journal Indexed in SCI)

- XIV. **Fabricating Porous Glass with Needle-Shaped Hydrate Crystals by Hydrothermal Treatment of Blast-Furnace Slag and Borosilicate Glass Mixture**
Suzuki M., Yamamoto T., Kuwata S., Derin B., Yamasaki N., Tanaka T.
MATERIALS TRANSACTIONS, vol.54, no.9, pp.1741-1749, 2013 (Journal Indexed in SCI)
- XV. **Carbothermic reduction of electric arc furnace dust and calcination of waelz oxide by semi-pilot scale rotary furnace**
Morcali M. H. , Yücel O., Aydın A., DERIN B.
Journal of Mining and Metallurgy, Section B: Metallurgy, vol.48, no.2, pp.173-184, 2012 (Journal Indexed in SCI)
- XVI. **Effect of initial composition on boron carbide production by SHS process followed by acid leaching**
Alkan M., Sönmez M. Ş. , DERIN B., Yücel O.
Solid State Sciences, vol.14, pp.1688-1691, 2012 (Journal Indexed in SCI)
- XVII. **Investigation of effect of colemanite addition on copper losses in matte smelting slag**
Rusen A., GEVEÇİ A., TOPKAYA Y. A. , Derin B.
Canadian Metallurgical Quarterly, vol.51, no.2, pp.157-169, 2012 (Journal Indexed in SCI)
- XVIII. **Chloride removal from zinc ash**
Sahin F., DERIN B., Yucel O.
Scandinavian Journal of Metallurgy, vol.29, no.5, pp.224-230, 2000 (Journal Indexed in SCI)

Articles Published in Other Journals

I. Protective Mo₂NiB₂-Ni Coatings by Centrifugal Metallothermic SHS

SANIN V. N. , IKORNIKOV D. M. , ANDREEV D. E. , YUKHVID V. I. , Derin B., Yücel O.

INTERNATIONAL JOURNAL OF SELF-PROPAGATING HIGH-TEMPERATURE SYNTHESIS, vol.24, no.3, pp.161-170, 2015 (Journal Indexed in ESCI)

Supported Projects

Derin C. B. , Kızılyel Y., Project Supported by Higher Education Institutions, MoAlB Seramiklerinin Yanma Sentezi Yöntemi ile Üretimi, 2018 - 2020

Derin C. B. , Project Supported by Higher Education Institutions, Some Computational Studies on Steelmaking Processes by FactSage, 2016 - 2018

Derin C. B. , Project Supported by Higher Education Institutions, Şekil Hafızalı Ni-Ti-Cu-Fe Dörtlü Alaşımların Yanma Sentezi (SHS) ile Üretimi ve Karakterizasyonu, 2016 - 2018

Derin C. B. , Project Supported by Higher Education Institutions, Treatment Of Acidic Waste Solutions Obtained From Shs Produced Tungsten Borides, 2013 - 2018

Derin C. B. , Project Supported by Higher Education Institutions, A. Study on Estimation of Phosphorus Capacities of Molten Slags Using a Neural Network Approach, 2012 - 2018

Derin C. B. , Project Supported by Higher Education Institutions, EFFECT OF HCl CONCENTRATION ON ZrB₂ SEPARATION FROM A SELF PROPAGATING HIGH TEMPERATURE SYNTHESIS SHS PRODUCT, 2011 - 2018

Derin C. B. , Project Supported by Higher Education Institutions, DOUBLE SHS OF W₂B₅ POWDER CAWO₄ AND B₂O₃, 2010 - 2018

Derin C. B. , Project Supported by Higher Education Institutions, Zirkonyum esaslı Kütleli Metalik Camların Sentezi ve Karakterizasyonu, 2015 - 2016

Derin C. B. , Project Supported by Higher Education Institutions, Bindirme Ara Slabları için Çelik Kalitesi Belirleme Çalışmaları, 2013 - 2016

Derin C. B. , Project Supported by Higher Education Institutions, Çeşitli Cüruf Sistemlerinin Kükürt Kapasitelerinin İncelenmesi, 2012 - 2014

Derin C. B. , Project Supported by Higher Education Institutions, Yapay Sinir Ağları Yaklaşımı ile Cüruflarda Fosfor Kapasitelerinin İncelenmesi, 2012 - 2014

Derin C. B. , Project Supported by Higher Education Institutions, Yanma Sentezi Atık Çözeltilerinin GERİ Kazanım Koşullarının İncelenmesi, 2011 - 2014

Derin C. B. , Project Supported by Higher Education Institutions, Kendiliğinden İlerleyen Yüksek Sıcaklık Sentezi Yöntemi ile Yeni ve Özel Alaşımların Üretimi ve Geliştirilmesi, 2011 - 2012

Derin C. B. , Project Supported by Higher Education Institutions, Kendiliğinden İlerleyen Yüksek Sıcaklık Sentezi Yöntemi İle Zirkonyum Diborür Tozu üretimi, 2010 - 2010

Derin C. B. , Project Supported by Higher Education Institutions, Kendiliğinden İlerleyen Yüksek Sıcaklık Sentezi Yöntemi ile Tungsten Borür Tozu Üretimi, 2009 - 2009

Derin C. B. , Project Supported by Higher Education Institutions, Yerel Kaynaklı Lateritik Nikel Cevherlerinden Ferronikel Üretimi, 2008 - 2008

Citations

Total Citations (WOS):242

h-index (WOS):8