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Eğitim Bilgileri

Doktora, Mcgill University, Metalurji Mühendisliği, Kanada 1981 - 1985

Yüksek Lisans, Mcgill University, Metalurji Mühendisliği, Kanada 1979 - 1981

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Türkiye 1973 - 1978

Yabancı Diller

İngilizce, C1 İleri

Araştırma Alanları

Teknik Bilimler, Metalurji ve Malzeme Mühendisliği, Üretim Metalurjisi, Demir Dışı Metal Üretimi, Elektrolitik Kaplama, Elektrometalurji

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 1994 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 1988 - 1994

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 1987 - 1988

Mesleki Deneyim

Bölüm Başkan Yardımcısı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2003 - 2006

Verdiği Dersler

Materials Processing, Lisans, 2018 - 2019

Yönetilen Tezler

- KARAKAYA İ., Değerli Parçacık Gömülü Kompozit Atıkların Entegre Geri Dönüşümü, Yüksek Lisans, T.GÖYNÜK(Öğrenci), 2019
- KARAKAYA İ., Formation and characterization of electroformed cylindrical accordion geometry, Yüksek Lisans, B.ÇETİNÖZ(Öğrenci), 2018
- KARAKAYA İ., Electroformation and characterization of Al₂O₃ embedded nickel matrix composite coatings, Yüksek Lisans, O.YILMAZ(Öğrenci), 2018
- KARAKAYA İ., Cathodic protection of aluminum components of armoured amphibious vehicles in marine environment, Yüksek Lisans, R.ONUR(Öğrenci), 2017
- KARAKAYA İ., Cathodic Protection of Steel Components of Armoured Amphibious Vehicles in Marine Environment, Yüksek Lisans, R.AKSU(Öğrenci), 2017
- KARAKAYA İ., Electrochemical production of tungsten refractory metal powders, Yüksek Lisans, F.ÖZDEMİR(Öğrenci), 2017
- KARAKAYA İ., Computer simulation of processes involving multicomponent multiphase equilibria, Yüksek Lisans, M.SERDAL(Öğrenci), 2016
- KARAKAYA İ., EFFECTS OF ANODIZING PARAMETERS ON THE FORMATION OF TITANIUM DIOXIDE NANOTUBE ARRAYS ON Ti6Al4V ALLOY, Yüksek Lisans, Z.AYÇA(Öğrenci), 2015
- KARAKAYA İ., Electrochemical formation of brazing alloys on metal substrates, Yüksek Lisans, F.JULU(Öğrenci), 2014
- KARAKAYA İ., KALKANLI A., Liquid phase sintering of tungsten-nickel-cobalt heavy alloys, Yüksek Lisans, O.DİNÇER(Öğrenci), 2014
- KARAKAYA İ., Formation of Indium Solder Material by Electrochemical Methods, Yüksek Lisans, O.ORKUT(Öğrenci), 2014
- KARAKAYA İ., ELECTROCHEMICAL FORMATION OF COLD SHIELD FOR OPTOELECTRONIC DEVICES, Yüksek Lisans, B.ARSLAN(Öğrenci), 2014
- KARAKAYA İ., Effect of chromium on the oxidation of steels used in the construction of petroleum refinery heaters, Doktora, A.SULTAN(Öğrenci), 2013
- KARAKAYA İ., Electrocodeposition of molybdenum disulfide particles in nickel matrix, Doktora, E.SARALOĞLU(Öğrenci), 2013
- KARAKAYA İ., Recovery of tungsten from tungsten bearing compounds, Doktora, M.ERDOĞAN(Öğrenci), 2013
- KARAKAYA İ., In-situ Formation of Mg-Ni Intermetallics, Yüksek Lisans, F.ERDEN(Öğrenci), 2013
- KARAKAYA İ., Production of Tungsten by Pulsed Potential Electroreduction, Yüksek Lisans, O.GÖKÇE(Öğrenci), 2011
- KARAKAYA İ., Reduction of silicon dioxide by electrochemical deoxidation, Yüksek Lisans, E.ERGÜL(Öğrenci), 2010
- ÖZTÜRK T., KARAKAYA İ., Ferroboron production by electrodeoxidation, Yüksek Lisans, T.ÖRS(Öğrenci), 2008
- KARAKAYA İ., Tungsten production by electrodeoxidation, Yüksek Lisans, M.ERDOĞAN(Öğrenci), 2007
- KARAKAYA İ., Electrolytic magnesium production using coaxial electrodes, Doktora, G.DEMİRCİ(Öğrenci), 2006
- KARAKAYA İ., High temperature corrosion of steels used in petroleum refinery heaters, Yüksek Lisans, A.SULTAN(Öğrenci), 2005
- KARAKAYA İ., Hydrometallurgical treatment of Beylikahır rare earth preconcentrate, Doktora, M.KUL(Öğrenci), 2003
- KARAKAYA İ., Yiterbiyum-baryum-bakır oksit süperiletken şeritlerin sol-jel metodu ile üretimi ve karakterizasyonu, Doktora, H.OKUYUCU(Öğrenci), 2002
- KARAKAYA İ., Development of a computer program for multi-element predominance area diagrams, Yüksek Lisans, E.KONCA(Öğrenci), 2000
- KARAKAYA İ., Development of a computer program for thermodynamic calculation of binary phase diagrams, Yüksek Lisans, İ.NUMANOĞLU(Öğrenci), 1999
- KARAKAYA İ., Molten salt electrolysis of magnesium and its hydrodynamics, Yüksek Lisans, G.DEMİRCİ(Öğrenci), 1998
- KARAKAYA İ., High temperature corrosion of boiler plant flues, Yüksek Lisans, İ.ATİK(Öğrenci), 1998
- KARAKAYA İ., Purification of magnesium-lead alloy by molten salt electrolysis, Yüksek Lisans, K.ÇITAK(Öğrenci), 1998
- KARAKAYA İ., Kalay-bizmut sisteminin termodinamiği, Yüksek Lisans, H.OKUYUCU(Öğrenci), 1997
- KARAKAYA İ., An interactive computer program for predominance area diagrams, Yüksek Lisans, M.MURAT(Öğrenci), 1994
- KARAKAYA İ., Development of an interactive computer program for ternary phase diagrams (Using thermodynamic data), Yüksek Lisans, S.KEMAL(Öğrenci), 1992

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Effects of fabrication method on initial powder characteristics and liquid phase sintering behaviour of tungsten**
Erol M., Erdogan M., Karakaya İ.
INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS, cilt.77, ss.82-89, 2018 (SCI İndekslerine Giren Dergi)
- **Removal of Trace Amounts of Copper from Concentrated Hydrochloric Acid Solutions**
Erdogan M., Karakaya E., Aras M. S. , Karagul S. C. , Ersoy M. K. , Öztürk A., Karakaya İ.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, cilt.13, ss.10934-10947, 2018 (SCI İndekslerine Giren Dergi)
- **Formation and characterization of infrared absorbing copper oxide surfaces**
Arslan B., Demirci G., Erdogan M., Karakaya İ.
APPLIED SURFACE SCIENCE, cilt.402, ss.218-224, 2017 (SCI İndekslerine Giren Dergi)
- **Investigation of the tribological behaviour of electrocodeposited Ni-MoS₂ composite coatings**
Güler E. S. , Konca E., KARAKAYA İ.
International Journal of Surface Science and Engineering, cilt.11, ss.418-432, 2017 (SCI İndekslerine Giren Dergi)
- **Processing and microstructural characterization of liquid phase sintered tungsten-nickel-cobalt heavy alloys**
DINCER O., PEHLIVANOGLU M. K. , CALISKAN N. K. , KARAKAYA İ., KALKANLI A.
INTERNATIONAL JOURNAL OF REFRACTORY METALS & HARD MATERIALS, cilt.50, ss.106-112, 2015 (SCI İndekslerine Giren Dergi)
- **On the Preparation of Mg₂Ni by Combining Electrodeoxidation and Electrolysis Techniques**
ERDEN F., KARAKAYA İ., Erdogan M.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, cilt.9, ss.6627-6639, 2014 (SCI İndekslerine Giren Dergi)
- **Effects of current density, coating thickness, temperature, pH and particle concentration on internal stress during Ni-MoS₂ electrocodeposition**
Guler E. S. , KARAKAYA İ., KONCA E.
SURFACE ENGINEERING, cilt.30, ss.109-114, 2014 (SCI İndekslerine Giren Dergi)
- **Effect of Electrodeposition Parameters on the Current Density of Hydrogen Evolution Reaction in Ni and Ni-MoS₂ Composite Coatings**
Gueler E. S. , KONCA E., KARAKAYA İ.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, cilt.8, ss.5496-5505, 2013 (SCI İndekslerine Giren Dergi)
- **On the Electrochemical Reduction Mechanism of CaWO₄ to W Powder**
Erdogan M., KARAKAYA İ.
METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE, cilt.43, ss.667-670, 2012 (SCI İndekslerine Giren Dergi)
- **Influence of water vapour on high temperature oxidation of steels used in petroleum refinery heaters**
Sultan A., KARAKAYA İ., Erdogan M.
MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION, cilt.63, ss.119-126, 2012 (SCI İndekslerine Giren Dergi)
- **Electrochemical decomposition of SiO₂ pellets to form silicon in molten salts**
Ergul E., KARAKAYA İ., Erdogan M.
JOURNAL OF ALLOYS AND COMPOUNDS, cilt.509, ss.899-903, 2011 (SCI İndekslerine Giren Dergi)

● **Direct synthesis of Mg-Ni compounds from their oxides**

Tan S., Aydinol K., ÖZTÜRK T., KARAKAYA İ.

JOURNAL OF ALLOYS AND COMPOUNDS, cilt.504, ss.134-140, 2010 (SCI İndekslerine Giren Dergi)

● **Electrochemical Reduction of Tungsten Compounds to Produce Tungsten Powder**

ERDOĞAN M., KARAKAYA İ.

METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE, cilt.41, ss.798-804, 2010 (SCI İndekslerine Giren Dergi)

● **Synthesis of Fe-4.6 wt% B alloy via electro-deoxidation of mixed oxides**

Ors T., Tan S., ÖZTÜRK T., KARAKAYA İ.

JOURNAL OF MATERIALS SCIENCE, cilt.44, ss.3514-3519, 2009 (SCI İndekslerine Giren Dergi)

● **Synthesis of FeTi from mixed oxide precursors**

Tan S., Oers T., AYDINOL M. K., ÖZTÜRK T., KARAKAYA İ.

JOURNAL OF ALLOYS AND COMPOUNDS, cilt.475, ss.368-372, 2009 (SCI İndekslerine Giren Dergi)

● **Electrolytic magnesium production and its hydrodynamics by using an Mg-Pb alloy cathode**

Demirci G., KARAKAYA İ.

JOURNAL OF ALLOYS AND COMPOUNDS, cilt.465, ss.255-260, 2008 (SCI İndekslerine Giren Dergi)

● **Rare earth double sulfates from pre-concentrated bastnasite**

Kul M., TOPKAYA Y. A., KARAKAYA İ.

HYDROMETALLURGY, cilt.93, ss.129-135, 2008 (SCI İndekslerine Giren Dergi)

● **Collection of magnesium in an Mg-Pb alloy cathode placed at the bottom of the cell in MgCl₂ electrolysis**

Demirci G., Karakaya I.

JOURNAL OF ALLOYS AND COMPOUNDS, cilt.439, ss.237-242, 2007 (SCI İndekslerine Giren Dergi)

● **ELECTROLYSIS OF MGCL₂ WITH A TOP INSERTED ANODE AND AN MG PB CATHODE**

GUDEN M., KARAKAYA İ.

JOURNAL OF APPLIED ELECTROCHEMISTRY, cilt.24, ss.791-797, 1994 (SCI İndekslerine Giren Dergi)

● **The Ag Se Silver Selenium System**

KARAKAYA İ., Thompson W. T.

Bulletin of Alloy Phase Diagrams, cilt.11, ss.266-271, 1990 (SCI Expanded İndekslerine Giren Dergi)

● **The Ag B Silver Boron System**

KARAKAYA İ.

Bulletin of Alloy Phase Diagrams, cilt.11, ss.547, 1990 (SCI Expanded İndekslerine Giren Dergi)

● **The Ag Mn Silver Manganese System**

KARAKAYA İ.

Bulletin of Alloy Phase Diagrams, cilt.11, ss.480-486, 1990 (SCI Expanded İndekslerine Giren Dergi)

● **The Ag N Silver Nitrogen System**

KARAKAYA İ.

Bulletin of Alloy Phase Diagrams, cilt.11, ss.486-487, 1990 (SCI Expanded İndekslerine Giren Dergi)

● **ADVICE SYSTEM ON HIGH-TEMPERATURE ALLOY CORROSION**

JOHN R., THOMPSON W., KARAKAYA İ.

MATERIALS PERFORMANCE, cilt.28, ss.69-73, 1989 (SCI İndekslerine Giren Dergi)

● **The Ag P Silver Phosphorus System**

KARAKAYA İ.

Bulletin of Alloy Phase Diagrams, cilt.9, ss.232-236, 1988 (SCI Expanded İndekslerine Giren Dergi)

● **The Ag Re Silver Rhenium System**

KARAKAYA İ.

Bulletin of Alloy Phase Diagrams, cilt.9, ss.243-244, 1988 (SCI Expanded İndekslerine Giren Dergi)

● **PARTIAL MOLAR PROPERTIES OF MGCL₂ IN MGCL₂-KCL-CACL₂ MELTS**

ZHU J., KARAKAYA İ., THOMPSON W.

JOURNAL OF THE ELECTROCHEMICAL SOCIETY, cilt.135, ss.122-126, 1988 (SCI İndekslerine Giren Dergi)

● **The Ag Pb Silver Lead System**

KARAKAYA İ.

Bulletin of Alloy Phase Diagrams, cilt.8, ss.326-334, 1987 (SCI Expanded İndekslerine Giren Dergi)

A THERMODYNAMIC STUDY OF THE SYSTEM MGCL₂-NACL-CACL₂

KARAKAYA İ., THOMPSON W.

CANADIAN METALLURGICAL QUARTERLY, cilt.25, ss.307-317, 1986 (SCI İndekslerine Giren Dergi)

THERMODYNAMIC PROPERTIES OF MGCL₂-NACL MELTS FROM EMF-MEASUREMENTS

KARAKAYA İ., thompson w.

JOURNAL OF THE ELECTROCHEMICAL SOCIETY, cilt.133, ss.702-706, 1986 (SCI İndekslerine Giren Dergi)

Thermodynamic properties of 1 x MgCl₂ xCaCl₂ melts

KARAKAYA İ., thompson w.

J. Chemical Thermodynamics, cilt.18, ss.859-866, 1986 (SCI Expanded İndekslerine Giren Dergi)

The Ag Ir Silver Iridium System

KARAKAYA İ.

Bulletin of Alloy Phase Diagrams, cilt.7, ss.359-360, 1986 (SCI Expanded İndekslerine Giren Dergi)

The Ag Os Silver Osmium System

KARAKAYA İ., thompson w.

Bulletin of Alloy Phase Diagrams, cilt.7, ss.360-362, 1986 (SCI Expanded İndekslerine Giren Dergi)

Introduction of boundary conditions in the Pelton Flengas Gibbs Duhem Integration for ternary solutions

KARAKAYA İ., thompson w.

Canadian Journal of Chemistry, cilt.63, ss.2808-2809, 1985 (SCI Expanded İndekslerine Giren Dergi)

Correction

KARAKAYA İ., thompson w.

Can. J. Chem., cilt.63, ss.3634, 1985 (SCI Expanded İndekslerine Giren Dergi)

Thermodynamic properties of SnO in SnO TiO₂ melts

KARAKAYA İ., William T T.

Canadian Metallurgical Quarterly, cilt.22, ss.61-65, 1983 (SCI Expanded İndekslerine Giren Dergi)

Diğer Dergilerde Yayınlanan Makaleler

Effects of Pulse Electroplating Parameters on Return Loss (S₁₁) and Surface Roughness of Silver Coatings

Başaran C., KARAKAYA İ.

ECSArxiv, 2019 (Diğer Kurumların Hakemli Dergileri)

ERİMİŞ TUZ İÇİNDE ELEKTROKİMYASAL İNDİRGEME YÖNTEMİYLE SİLİSYUM ÜRETİMİ

ERDOĞAN M., Ergül E., KARAKAYA İ.

Selçuk Üniversitesi Mühendislik Bilim ve Teknoloji Dergisi, 2017 (Diğer Kurumların Hakemli Dergileri)

Katı Molibden Bileşiklerinin Elektrokimyasal İndirgenmesiyle Molibden Üretimi

ERDOĞAN M., Akpınar B., KARAKAYA İ.

Çukurova Üniversitesi Mühendislik Mimarlık Fakültesi Dergisi, 2017 (Diğer Kurumların Hakemli Dergileri)

Taguchi Design of Internal Stress and Friction Measurements during Electrodeposition

SARALOĞLU GÜLER E., KARAKAYA İ.

Journal of Material Science Engineering, cilt.6, 2017 (Diğer Kurumların Hakemli Dergileri)

Friction Reducing Composite Plating in Rocket Launchers. International Journal of Engineering Research Development

SARALOĞLU GÜLER E., KARAKAYA İ.

International Journal of Engineering Research Development, 2017 (Diğer Kurumların Hakemli Dergileri)

Oxidation of Low Chromium Steels in Dry and Moist Atmospheres

ERDOĞAN M., SULTAN a., KARAKAYA İ.

OXIDATION COMMUNICATIONS, cilt.40, ss.51-60, 2017 (Diğer Kurumların Hakemli Dergileri)

- **A Pulse Voltage Application in Electrochemical Reduction of Solid CaWO₄ Powder**
Goksu O. G., ERDOĞAN M., KARAKAYA İ.
ECS Transactions, cilt.72, ss.31-39, 2016 (Diğer Kurumların Hakemli Dergileri)
- **The Role of Electrolyte Composition on Codeposited Ag and Cu**
ulu f., Demici G., ERDOĞAN M., KARAKAYA İ.
ECS Transactions, cilt.72, ss.35-44, 2016 (Diğer Kurumların Hakemli Dergileri)
- **Formation of gold plated electroformed copper structures**
ARSLAN B., Demirci G., KARAKAYA İ., ERDOĞAN M.
Advances in Materials and Processing Technologies, cilt.1, ss.384-393, 2016 (Diğer Kurumların Hakemli Dergileri)
- **Formation of Titanium Dioxide Nanotube Arrays by Anodizing Ti6Al4V Alloy**
KARAKAYA İ., ERDOĞAN M.
ECS Transactions, cilt.58, ss.45-52, 2014 (Diğer Kurumların Hakemli Dergileri)
- **The Ag Pd Silver Palladium System**
KARAKAYA İ., William T T.
Bulletin of Alloy Phase Diagrams, cilt.9, ss.237-243, 1988 (Diğer Kurumların Hakemli Dergileri)
- **A Database for the Selection of Materials for High Temperature Service**
KARAKAYA İ., Randy C J., William T T.
Materials & Components in Fossil Energy Applications, US Department of Energy Newsletter, ss.1-3, 1988 (Diğer Kurumların Hakemli Dergileri)
- **The Ag C Silver Carbon System**
KARAKAYA İ., William T T.
Bulletin of Alloy Phase Diagrams, cilt.9, ss.226-227, 1988 (Diğer Kurumların Hakemli Dergileri)
- **The Pb Sn Lead Tin System**
KARAKAYA İ., William T T.
Bulletin of Alloy Phase Diagrams, cilt.9, ss.144-152, 1988 (Diğer Kurumların Hakemli Dergileri)
- **The Ag Pt Silver Platinum System**
KARAKAYA İ., William T T.
Bulletin of Alloy Phase Diagrams, cilt.8, ss.334-340, 1987 (Diğer Kurumların Hakemli Dergileri)
- **The Ag Sn Silver Tin System**
Karakaya İ., William T T.
Bulletin of Alloy Phase Diagrams, cilt.8, ss.340-347, 1987 (ESCI İndekslerine Giren Dergi)
- **The Ag Rh Silver Rhodium System**
KARAKAYA İ., William T T.
Bulletin of Alloy Phase Diagrams, cilt.7, ss.362-365, 1986 (Diğer Kurumların Hakemli Dergileri)
- **The Ag Co Silver Cobalt System**
KARAKAYA İ., William T T.
Bulletin of Alloy Phase Diagrams, cilt.7, ss.259-263, 1986 (Diğer Kurumların Hakemli Dergileri)
- **The Ag Ru Silver Ruthenium System**
KARAKAYA İ., William T T.
Bulletin of Alloy Phase Diagrams, cilt.7, ss.365-368, 1986 (Diğer Kurumların Hakemli Dergileri)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- **Effects and Characterizations of Pulse Electrodeposition Parameters of Silver on Surface Roughness and Scattering Parameters of Horn Antennas**
Başaran C., KARAKAYA İ.
235th ECS Meeting, 26 - 29 Mayıs 2019
- **Electrochemical Deposition of Au-Ag-Cu Alloys on CuBe₂**
Çetinöz B., Erdoğan M., Karakaya İ., Yurdakul E. B.
19th International Metallurgy and Materials Congress, ISTANBUL (IMMC 2018), İstanbul, Türkiye, 25 - 27 Ekim

2018, ss.1052-1056

Electrochemical Formation of Alloys of Aluminum in Molten Salts

Polat Ç., Erdoğan M., Karakaya İ.

19th International Metallurgy and Materials Congress (IMMC 2018), İstanbul, Türkiye, 25 - 27 Ekim 2018, ss.132-135

Collection of Metal Powders From Recycled Hard Particle Embedded Composite Cutting Tools

Altunbaşak T., Kul M., Karakaya İ.

19th International Metallurgy and Materials Congress (IMMC 2018), İstanbul, Türkiye, 25 - 27 Ekim 2018, ss.692-695

Effect of Heat Treatment on the Microstructure and Surface Properties of Ni-Based Platings

Başkan M., Erdoğan M., Karakaya İ.

19th International Metallurgy and Materials Congress (IMMC 2018), İstanbul, Türkiye, 25 - 27 Ekim 2018, ss.1008-1011

Electrochemical etching of an Fe-Ni-Co alloy

Aksu Y., Demirci G., Erdoğan M., Karakaya İ.

5th International Conference on Welding Technologies and Exhibition (ICWET'18), Sarajevo, Bosna-Hersek, 26 - 28 Eylül 2018, ss.56

Electrochemical etching of an Fe-Ni-Co alloy

Aksu Y., Demirci G., Erdoğan M., Karakaya İ.

5th International Conference on Welding Technologies and Exhibition (ICWET'18), Sarajevo, Bosna-Hersek, 26 - 28 Eylül 2018, ss.56

Powder Copper Extraction and Diamond Recovery from Scrapped Saw Blades by Electro Dissolution-Deposition

Kul M., Oskay K. O., Karasungur O., Kumruoğlu L. C., Karakaya İ., Şimşir M., Korkmaz S., Ertaş H. A.

4th INTERNATIONAL SYMPOSIUM ON ENVIRONMENT AND MORALS (ISEM2018), Sarajevo, Bosna-Hersek, 27 - 29 Haziran 2018, ss.476-486

Electrochemical Removal of Copper from Regenerated Pickling Solutions of Steel Plants

Karakaya E., Aras M. S., Erdoğan M., Karagül S., Ersoy M., Karakaya İ.

233rd ECS Meeting, Washington, Amerika Birleşik Devletleri, 13 - 17 Mayıs 2018, ss.1295

Electrochemical Removal of Copper from Regenerated Pickling Solutions of Steel Plants

Karakaya E., Aras M. S., Erdoğan M., Karagül S., Ersoy M., Karakaya İ.

233rd ECS Meeting, Washington, Amerika Birleşik Devletleri, 13 - 17 Mayıs 2018, ss.1295

Optimization of Mechanical Properties of Nickel-Cobalt Coatings from Sulphamate Baths

Karakaya E., Başkan M., Erdoğan M., Karakaya İ.

233rd ECS Meeting, Washington, Amerika Birleşik Devletleri, 13 - 17 Mayıs 2018, ss.1305

Characterization of the Liquid Phase Sintered Tungsten Heavy Alloys Prepared by an Electrochemically Produced Tungsten Powder

Erol M., Erdoğan M., Karakaya İ.

Powder Metallurgy of Light, Reactive and Other Non-ferrous Metals, TMS 2018, Arizona, Amerika Birleşik Devletleri, 11 - 15 Mart 2018, ss.1

Complete Recycling of Waste Diamond Cutting Tools by an Electrochemical Method

Altunbaşak T., Kul M., Karakaya İ.

TMS 2018, Arizona, Amerika Birleşik Devletleri, 11 - 15 Mart 2018, ss.1

An Electrochemical Procedure for Copper Removal from Regenerated Pickling Solutions of Steel Plants

Karakaya E., Aras M. S., ERDOĞAN M., Karagül S. C., Ersoy M. K., KARAKAYA İ.

Energy Technologies Symposium, Arizona, Amerika Birleşik Devletleri, 11 - 15 Mart 2018, ss.275-281

Characterization of the Liquid Phase Sintered Tungsten Heavy Alloys Prepared by an Electrochemically Produced Tungsten Powder

Erol M., Erdoğan M., Karakaya İ.

Powder Metallurgy of Light, Reactive and Other Non-ferrous Metals, TMS 2018, Arizona, Amerika Birleşik

Devletleri, 11 - 15 Mart 2018, ss.1

Investigation of the Mechanical Properties of Al₂O₃ Reinforced Nickel Composite Coatings, Metal-Matrix Composites Innovations, Advances and Applications

Yılmaz O., Erdoğan M., Karakaya İ.

TMS 2018, Arizona, Amerika Birleşik Devletleri, 11 - 15 Mart 2018, ss.1

Electrochemical Formation of Alloys of Scandium in Molten Salts

polat ç., ERDOĞAN M., İplikçioğlu S., KARAKAYA İ.

TMS 2018, Phoenix, Amerika Birleşik Devletleri, 11 - 15 Mart 2018, ss.1555-1558

Investigation of the Mechanical Properties of Al₂O₃ Reinforced Nickel Composite Coatings

Yılmaz O., ERDOĞAN M., KARAKAYA İ.

TMS 2018, Phoenix, 11 - 15 Mart 2018

Friction Reducing Composite Plating in Rocket Launchers. Uluslararası İle

SARALOĞLU GÜLER E., KARAKAYA İ.

2. Uluslararası Savunma Sanayii Sempozyumu, 6 - 08 Nisan 2017, cilt.9, ss.1-5

EFFECTS OF COBALT AND IRON ALTERNATION ON THE BINDER PHASE COMPOSITION AND AVERAGE GRAIN SIZE OF W-Ni-X HEAVY ALLOYS,, PPM 2017 İzmir September 12-15 2017

EROL M., ERDOĞAN M., KARAKAYA İ.

International Porous and Powder Materials Symposium, 12 - 15 Eylül 2017

Internal stress and friction measurements during MoS₂-nickel electrodeposition. oma / İtalya 12/06/2017 - 14/06/2017

SARALOĞLU GÜLER E., KARAKAYA İ.

9th World Congress on Materials Science Engineering, 12 - 14 Haziran 2017

Determination of Internal Stress of Ni Electroplated Samples in Sulphamate Solutions

Aykac B., Erdogan M., KARAKAYA İ.

Symposium on Plasma Nano Science and Technology held during the 231st Meeting of the Electrochemical-Society (ECS), Louisiana, Amerika Birleşik Devletleri, 28 Mayıs - 01 Haziran 2017, cilt.77, ss.1079-1084

An Electrochemical Procedure to Form Metal Powders from Recycled Hard Particle Embedded Composite Cutting Tools

Altunbasak T., KUL M., KARAKAYA İ.

Symposium on Plasma Nano Science and Technology held during the 231st Meeting of the Electrochemical-Society (ECS), Louisiana, Amerika Birleşik Devletleri, 28 Mayıs - 01 Haziran 2017, cilt.77, ss.1035-1041

The use of Silicon Wafer Barriers in the Electrochemical Reduction of Solid Silica to Form Silicon in Molten Salts

AKPINAR B., ERDOĞAN M., Akduman B., KARAKAYA İ.

Symposium on Plasma Nano Science and Technology held during the 231st Meeting of the Electrochemical-Society (ECS), Louisiana, Amerika Birleşik Devletleri, 28 Mayıs - 01 Haziran 2017, cilt.77, ss.2011-2016

Formation and Characterization of Sub-Micron Inert Particle Embedded Nickel Composite Coatings

YILMAZ TÜZÜN Ö., ERDOĞAN M., KARAKAYA İ.

Symposium on Plasma Nano Science and Technology held during the 231st Meeting of the Electrochemical-Society (ECS), Louisiana, Amerika Birleşik Devletleri, 28 Mayıs - 01 Haziran 2017, cilt.77, ss.1029-1034

Electrochemical Reduction of Solid Silica to Form Silicon in Molten Salts

akpınar b., ERDOĞAN M., ergül e., akduman b., KARAKAYA İ.

231 st ECS Meeting, 29 Mayıs - 02 Haziran 2017

A Molten Salt Electrolysis Procedure to Form Al-Sc Alloys

polat ç., ERDOĞAN M., KARAKAYA İ.

231 st ECS Meeting, 29 Mayıs - 02 Haziran 2017

Effects of Pulse-Reverse Currents on Nickel Deposited from Sulphamate Solutions

çetinöz B., ERDOĞAN M., aras m. s. , KARAKAYA İ.

231 st ECS Meeting, 29 Mayıs - 02 Haziran 2017

Electrochemical Reduction of Molybdenum Compounds to Form Molybdenum Powder

akpınar b., ERDOĞAN M., KARAKAYA İ.

231 st ECS Meeting, 29 Mayıs - 02 Haziran 2017

Eff ects of pH and Cobalt Concentration on the Properties of Nickel Cobalt Alloy Plating

Başkan M., ERDOĞAN M., KARAKAYA İ.

IMMC'xx18, İstanbul, Türkiye, 29 Eylül - 01 Ekim 2016, ss.740-743

Liquid Phase Sintering Behaviour of Tungsten Powders Produced by the Electrochemical Reduction

EROL M., ERDOĞAN M., KARAKAYA İ.

IMMC'xx18, 29 Eylül - 01 Ekim 2016, ss.650-653

Corrosion Behavior and Cathodic Protection Modeling of a Selected Steel Component in Seawater

AKSU R., ERDOĞAN M., Meço H., KARAKAYA İ.

IMMC'xx18, 29 Eylül - 01 Ekim 2016, ss.819-822

Corrosion Behaviors of Different Aluminum Alloys and Cathodic Protection Application to the Amphibious Military Vehicles

Uğuz R. O. , Meço H., ERDOĞAN M., KARAKAYA İ.

IMMC'xx18, 29 Eylül - 01 Ekim 2016, ss.826-829

Investigation of the Larger Scale Tungsten Production by the Electrochemical Reduction Technique

ÖZDEMİR F., ERDOĞAN M., Elmadağlı M., KARAKAYA İ.

IMMC'xx18, 29 Eylül - 01 Ekim 2016, ss.596-599

Amfibik Askeri Zırhlı Araçlarının Seçili Parçalarının Deniz Suyu Ortamında Katodik Koruma Modellemesi

Uğuz R. O. , AKSU R., Meço H., ERDOĞAN M., KARAKAYA İ.

KORSEM 14, 5 - 06 Ekim 2016

Nickel and Gold Coatings of Germanium and Kovar Substrates

Cetin Y., ERDOĞAN M., Demirci G., KARAKAYA İ.

Symposium on Industrial Electrochemistry and Electrochemical Engineering General Session held during the 229th Meeting of The Electrochemical-Society, California, Amerika Birleşik Devletleri, 29 Mayıs - 02 Haziran 2016, cilt.72, ss.55-64

Electropolishing of an Fe-Ni-Co Alloy in Acetic Acid-Perchloric Acid Mixture

Aksu Y., ERDOĞAN M., Demirci G., KARAKAYA İ.

Symposium on Industrial Electrochemistry and Electrochemical Engineering General Session held during the 229th Meeting of The Electrochemical-Society, California, Amerika Birleşik Devletleri, 29 Mayıs - 02 Haziran 2016, cilt.72, ss.13-21

Investigation, Modeling and Design of a Cathodic Protection System for Hull Structures in Marine Environment

Aksu R., Uguz R. O. , ERDOĞAN M., Mecu H., KARAKAYA İ.

Symposium on Corrosion General Session held during the 229th Meeting of The-Electrochemical-Society, California, Amerika Birleşik Devletleri, 29 Mayıs - 02 Haziran 2016, cilt.72, ss.163-170

The Role of Electrolyte Composition on Codeposited Ag and Cu

KARAKAYA İ., Ulu F., Demirci G., ERDOĞAN M.

229th ECS Meeting, 29 Mayıs - 02 Haziran 2016

In Search of an Alternative Solar Grade Silicon Production By Electrochemical Reduction of SiO₂

Akpınar B., ERDOĞAN M., KARAKAYA İ.

ECS 229, 29 Mayıs - 02 Haziran 2016, ss.2164

A Pulse Voltage Application in Electrochemical Reduction of Solid CaWO₄ Powder

KARAKAYA İ., ERDOĞAN M., Göksu G.

ECS 229, 29 Mayıs - 02 Haziran 2016

Electropolishing of an Fe Ni Co Alloy in Acetic Acid Perchloric Acid Mixture F01 1131 Industrial Electrochemistry and Electrochemical Engineering General Session

Aksu Y., ERDOĞAN M., Demirci G., KARAKAYA İ.

229th ECS Meeting, 29 Mayıs - 02 Haziran 2016

Production of Tungsten by Pulse Current Reduction of CaWO₄

ÖZDEMİR F., ERDOĞAN M., Elmadağlı M., KARAKAYA İ.

TMS 2016, Nashville, Amerika Birleşik Devletleri, 14 - 18 Şubat 2016, ss.151-158

Investigation of Process Parameters for the Nickel Coatings from Sulphamate Baths NASHVILLE TENNESSEE USA 14 18 Feb 2016

Başkan M., ERDOĞAN M., KARAKAYA İ.

TMS 2016, 14 - 18 Şubat 2016

Investigation of the Corrosion Behavior of Selected Steel Types and Aluminum Alloys in Marine Environment

AKSU R., Uğuz O., ERDOĞAN M., Meço H., Aras M. S., KARAKAYA İ.

TMS 2016, NASHVILLE, Amerika Birleşik Devletleri, 14 - 18 Şubat 2016

In situ Formation of Mg Ni Intermetallics by a two step Electrochemical Technique

KARAKAYA İ., ERDOĞAN M., Fuat E.

mESC-IS 2015, Int. Symposium on Materials for Energy Storage and Conversion, Ankara, Türkiye, 7 - 09 Eylül 2015

Effect of Bath Composition on the Composition and Morphology of Electrodeposited Ag Cu Alloys

KARAKAYA İ., ERDOĞAN M., Ulu F., Demirci G.

227th Electrochem. Soc. Meeting, Chicago, Amerika Birleşik Devletleri, 24 - 28 Mayıs 2015

Preparation of Surfaces of Germanium and Kovar Substrates By Electroplating for Soldering

KARAKAYA İ., ERDOĞAN M., Çetin Y., Demirci G.

227th Electrochem. Soc. Meeting, Chicago, Amerika Birleşik Devletleri, 24 - 28 Mayıs 2015

Structural Properties of Electrolytic Nickel Deposits Produced By Direct Pulse and Pulse Reverse Currents in the Organic Free Watts Electrolytes

ARSLAN B., KARAKAYA İ., ERDOĞAN M., Demirci G.

227th Electrochem. Soc. Meeting, Chicago, Amerika Birleşik Devletleri, 24 - 28 Mayıs 2015

AN INTERRUPTED IN-SITU METHOD FOR ELECTROCHEMICAL FORMATION OF Mg-Ni INTERMETALLICS

Erden F., KARAKAYA İ., ERDOĞAN M.

143rd TMS Annual Meeting & Exhibition, California, Amerika Birleşik Devletleri, 16 - 20 Şubat 2014, ss.683-693

Electrochemical Formation of Brazing Alloys on Metal Substrates

Ulu F., KARAKAYA İ., Demirci G., ERDOĞAN M.

Symposium on Fundamentals of Electrochemical Growth - From UPD to Microstructures 3 held during the 224th Meeting of the Electrochemical-Society (ECS), San-Francisco, Kostarika, 27 Ekim - 01 Kasım 2013, cilt.58, ss.61-69

Comparison of Structural Properties of Copper Deposits from Sulfate and Pyrophosphate Electrolytes

ARSLAN B., Ulgudur N., ERDOĞAN M., İMAMOĞLU İ., KARAKAYA İ.

Symposium on Fundamentals of Electrochemical Growth - From UPD to Microstructures 3 held during the 224th Meeting of the Electrochemical-Society (ECS), San-Francisco, Kostarika, 27 Ekim - 01 Kasım 2013, cilt.58, ss.105-113

MIXTURE DESIGN APPLIED TO THE ELECTROCHEMICAL REDUCTION OF CaWO₄ TO W

Erdogan M., KARAKAYA İ., Goksu O. G.

T T Chen Honorary Symposium on Hydrometallurgy, Electrometallurgy and Materials Characterization held during the 141st TMS Annual Meeting and Exhibition, Florida, Amerika Birleşik Devletleri, 11 - 15 Mart 2012, ss.761-767

MOLTEN SALT ELECTROLYSIS OF MgCl₂ IN A CELL WITH RAPID CHLORINE REMOVAL FEATURE

Demirci G., Karakaya İ.

Symposium on Magnesium Technology held during TMS Annual Meeting and Exhibition, Florida, Amerika Birleşik Devletleri, 11 - 15 Mart 2012, ss.59-62

AN INVESTIGATION INTO THE ELECTROCHEMICAL PRODUCTION OF Si BY THE FFC CAMBRIDGE PROCESS

ERGUL E., KARAKAYA İ., Erdogan M., ERDEN F.

Conference of the Extraction-and-Processing-Division (EPD) held during the 141st TMS Annual Meeting and Exhibition, Florida, Amerika Birleşik Devletleri, 11 - 15 Mart 2012, ss.455-462

EFFECT OF ELECTROPLATING PARAMETERS ON "HER" CURRENT DENSITY IN Ni-MoS₂ COMPOSITE PLATING

Guler E. S. , KARAKAYA İ., KONCA E.

Symposium on Materials Processing and Interfaces from 141st TMS Annual Meeting and Exhibition, California, Amerika Birleşik Devletleri, 11 - 15 Mart 2012, ss.57-64

● **RAPID REMOVAL OF CHLORINE IN MOLTEN SALT ELECTROLYSIS OF MAGNESIUM CHLORIDE**

Demirci G., KARAKAYA İ.

Symposium of the Extraction-and-Processing-Division (EPD) held during 140th TMS Annual Meeting and Exhibition, California, Amerika Birleşik Devletleri, 27 Şubat - 03 Mart 2011, ss.597-604

● **Effects of Rapid Chlorine Removal on the Electrolytic Magnesium Production**

Demirci G., KARAKAYA İ.

15. Uluslararası Metalurji ve Malzeme Konf, 19 Ekim 2010, ss.1310-1319

● **Topkaya Y Kul M and Karakaya İ Recovery of Rare Earths from a Bastnasite Preconcentrate Rare Earths and Actinides Science Technology and Applications IV TMS 2000 p 11 16**

Topkaya Y. A. , KUL M., KARAKAYA İ.

TMS, warrendale, Amerika Birleşik Devletleri, 1 - 05 Şubat 2010, ss.11-16

Ansiklopedide Bölümler

● **ASM Handbook Volume 3 Alloy Phase Diagrams**

KARAKAYA İ., William T T.

ASM International, ss., 2001

Desteklenen Projeler

KARAKAYA İ., Diğer Özel Kurumlarca Desteklenen Proje, Pal İçin Elektroform Yöntemiyle Erozyon Kalkanı Üretimi, 2015 - Devam Ediyor

KARAKAYA İ., POLAT Ç., Yükseköğretim Kurumları Destekli Proje, ERİMİŞ TUZ İÇERİSİNDE ELEKTROKİMYASAL YÖNTEMLE AL-SC ALAŞIMI OLUŞTURULMASI, 2018 - 2019

KARAKAYA İ., ALTUNBAŞAK T., Yükseköğretim Kurumları Destekli Proje, Değerli Parçacık Gömülü Kompozit Atıkların Entegre Geri Dönüşümü, 2018 - 2019

KARAKAYA İ., Yükseköğretim Kurumları Destekli Proje, SİLİNDİRİK AKORDİYON GEOMETRİSİNİN ELECTROFORM YÖNTEMİ İLE OLUŞTURULMASI VE KARAKTERİZASYONU, 2017 - 2017

KARAKAYA İ., YILMAZ O., Yükseköğretim Kurumları Destekli Proje, MİKRON ALTI İKİNCİ PARÇACIK GÖMÜLÜ NİKEL BAZLI KOMPOZİT KAPLAMANIN ELEKTROLİZLE ŞEKİLLENDİRME YÖNTEMİYLE OLUŞTURULMASI VE KARAKTERİZASYONU, 2017 - 2017

KARAKAYA İ., Yükseköğretim Kurumları Destekli Proje, REFRAKTER METAL MOLİBDEN TOZUNUN ELEKTROKİMYASAL YÖNTEMLE ÜRETİMİ, 2017 - 2017

KARAKAYA İ., Yükseköğretim Kurumları Destekli Proje, ERİMİŞ TUZ İÇERİSİNDE ELEKTROKİMYASAL YÖNTEMLE AL-SC ALAŞIMI OLUŞTURULMASI, 2017 - 2017

KARAKAYA İ., Yükseköğretim Kurumları Destekli Proje, Mg-Ni Metaller Arası Bileşiklerinin Erimiş Tuz İçerisinde Üretilmesi, 2012 - 2013

Patent

KARAKAYA İ., Elektrodeoksidasyon ve Erişim Tuz Elektrolizi Metotlarının Intermetalik ve/veya Alaşım Üretmek için Birleştirilmesi, Patent, BÖLÜM C Kimya; Metalürji, İlk Tescil, 2016

Atıflar

Toplam Atıf Sayısı (WOS):374

h-indeksi (WOS):12