

Prof. NİZAMETTİN DEMİRKİRAN

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABF-2443-2020

ScopusID: 6504218851

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Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 2003 - 2009

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği Anabilim Dalı, Turkey 1999 - 2002

Undergraduate, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, Turkey 1991 - 1996

Dissertations

Doctorate, Sensör Amaçlı Sol-Jel Kaplamaların Hazırlanması ve Özelliklerinin İncelenmesi, Inonu University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 2009

Postgraduate, Uleksit Cevherinin Amonyum Sülfat Çözeltilerindeki Çözünme Kinetiği, Inonu University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği Anabilim Dalı, 2002

Research Areas

Chemical Engineering and Technology, Process and Reactor Design, Chemical Reaction Engineering, Basic Operations and Thermodynamics, Mass Transfer, Metallurgical and Materials Engineering, Production Metallurgy, Hydrometallurgy, Engineering and Technology

Academic Titles / Tasks

Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 2021 - Continues

Associate Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 2015 - 2021

Assistant Professor, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 2010 - 2015

Research Assistant PhD, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 2009 - 2010

Research Assistant, Inonu University, Mühendislik Fakültesi, Kimya Mühendisliği, 1998 - 2009

Courses

KÜTLE VE ENERJİ DENKLİKLERİ, Undergraduate, 2021-2022

İLERİ REAKSİYON MÜHENDİSLİĞİ, Undergraduate Double Major, 2021-2022

KİMYA MÜHENDİSLİĞİ LAB, Undergraduate, 2021-2022
İLERİ KÜTLE TRANSFERİ, Undergraduate Minor, 2020-2021
İLERİ REAKSİYON MÜHENDİSLİĞİ, Undergraduate Double Major, 2020-2021
KİMYA MÜHENDİSLİĞİ LAB, Undergraduate, 2020-2021
KÜTLE TRANSFERİ, Undergraduate, 2020-2021
KÜTLE VE ENERJİ DENKLİKLERİ, Undergraduate, 2020-2021
PROSES TASARIMI, Undergraduate, 2020-2021
KÜTLE VE ENERJİ DENKLİKLERİ, Undergraduate, 2018-2019
İLERİ REAKSİYON MÜHENDİSLİĞİ, Undergraduate Double Major, 2018-2019
İLERİ REAKSİYON MÜHENDİSLİĞİ, Postgraduate, 2017 - 2018, 2016 - 2017
İLERİ KÜTLE TRANSFERİ, Undergraduate Minor, 2018-2019
KÜTLE VE ENERJİ DENKLİKLERİ, Undergraduate, 2017 - 2018, 2016 - 2017
PROSES TASARIMI I, Undergraduate, 2017 - 2018, 2016 - 2017
PROSES TASARIMI I, Undergraduate, 2018-2019
KİMYA MÜHENDİSLİĞİ LAB.I, Undergraduate, 2017 - 2018, 2016 - 2017
ELEKTROKİMYA, Undergraduate, 2017 - 2018
KİMYA MÜHENDİSLİĞİ LAB.I, Undergraduate, 2018-2019
KÜTLE VE ENERJİ DENKLİKLERİ, Undergraduate, 2017-2018
ELEKTROKİMYA, Undergraduate, 2017-2018
KİMYA MÜHENDİSLİĞİ LAB.I, Undergraduate, 2017-2018
PROSES TASARIMI I, Undergraduate, 2017-2018
İLERİ REAKSİYON MÜHENDİSLİĞİ, Undergraduate Double Major, 2017-2018
PROSES TASARIMI I, Undergraduate, 2016-2017
KÜTLE VE ENERJİ DENKLİKLERİ, Undergraduate, 2016-2017
KİMYA MÜHENDİSLİĞİ LAB.I, Undergraduate, 2016-2017
İLERİ REAKSİYON MÜHENDİSLİĞİ, Undergraduate Double Major, 2016-2017
KİMYA MÜHENDİSLİĞİ LAB.I, Undergraduate, 2015-2016
PROSES TASARIMI II, Undergraduate, 2015-2016
KÜTLE TRANSFERİ, Undergraduate, 2015-2016
KÜTLE VE ENERJİ DENKLİKLERİ, Undergraduate, 2015-2016
İLERİ REAKSİYON MÜHENDİSLİĞİ, Undergraduate Double Major, 2015-2016
KİMYA MÜHENDİSLİĞİ LAB.II, Undergraduate, 2015-2016
KÜTLE TRANSFERİ, Undergraduate, 2015-2016
PROSES TASARIMI I, Undergraduate, 2015-2016
KİMYA MÜHENDİSLİĞİ LAB.II, Undergraduate, 2014-2015
PROSES TASARIMI II, Undergraduate, 2014-2015
KÜTLE TRANSFERİ, Undergraduate, 2014-2015
ELEKTROKİMYA, Undergraduate, 2014-2015
KÜTLE VE ENERJİ DENKLİKLERİ, Undergraduate, 2014-2015
KİMYA MÜHENDİSLİĞİ LAB.I, Undergraduate, 2014-2015
PROSES TASARIMI I, Undergraduate, 2014-2015
KÜTLE VE ENERJİ DENKLİKLERİ, Undergraduate, 2013-2014
KİMYA MÜHENDİSLİĞİ LAB.I, Undergraduate, 2013-2014
KİMYA MÜHENDİSLİĞİ LAB.II, Undergraduate, 2013-2014
KÜTLE VE ENERJİ DENKLİKLERİ, Undergraduate, 2013-2014
PROSES TASARIMI I, Undergraduate, 2013-2014
ELEKTROKİMYA, Undergraduate, 2013-2014
PROSES TASARIMI II, Undergraduate, 2013-2014

Advising Theses

DEMİR KIRAN N., HİDROMETALURJİK YÖNTEMLERİN UYGULANMASIYLA MALAHİT CEVHERİNDEN METALİK BAKIR ÜRETİLMESİNİN İNCELENMESİ, Doctorate, M.KAYRA(Student), 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Leaching Kinetics of Manganese Oxides Obtained from Waste Alkaline Batteries in Sulfuric Acid Solutions Containing Molasses**
TURHAN ÖZDEMİR G. D., DEMİR KIRAN N.
JOURNAL OF SUSTAINABLE METALLURGY, vol.8, no.2, pp.927-941, 2022 (SCI-Expanded)
- II. **Optimization of process parameters and kinetic modelling for leaching of copper from oxidized copper ore in nitric acid solutions**
TANAYDIN M. K., Tanaydin Z. B., DEMİR KIRAN N.
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.32, no.4, pp.1301-1313, 2022 (SCI-Expanded)
- III. **Recovery of Cu(II) by Acorga M5640 After Leaching of Malachite Ore in Perchloric Acid Solutions**
Demirkiran N., Tanaydin M. K.
JOURNAL OF SUSTAINABLE METALLURGY, vol.7, no.2, pp.495-505, 2021 (SCI-Expanded)
- IV. **Dissolution kinetics of metallic zinc obtained from spent zinc-carbon batteries in nitric acid solutions**
DEMİR KIRAN N., Senel M.
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.40, no.3, 2021 (SCI-Expanded)
- V. **Optimization by response surface method of dissolution of metallic zinc obtained from waste Zinc-Carbon batteries in nitric acid solutions**
Demirkiran N., Senel M., Turhan Özdemir G. D.
REVISTA DE METALURGIA, vol.57, no.2, 2021 (SCI-Expanded)
- VI. **Determination of Optimum Process Conditions by Central Composite Design Method and Examination of Leaching Kinetics of Smithsonite Ore Using Nitric Acid Solution**
Tanaydin M. K., Tanaydin Z. B., DEMİR KIRAN N.
JOURNAL OF SUSTAINABLE METALLURGY, vol.7, no.1, pp.178-191, 2021 (SCI-Expanded)
- VII. **Kinetic models for the extraction of copper by Acorga M5640 after leaching of malachite ore in perchloric acid solutions and the stripping of copper from loaded organic phase**
TANAYDIN M. K., DEMİR KIRAN N.
BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING, vol.37, no.2, pp.399-414, 2020 (SCI-Expanded)
- VIII. **Investigating dissolution of colemanite in sulfuric acid solutions by particle size measurements**
SİS H., Bentli I., DEMİR KIRAN N., Ekmekyapar A.
SEPARATION SCIENCE AND TECHNOLOGY, vol.54, no.8, pp.1353-1362, 2019 (SCI-Expanded)
- IX. **Investigation of selective leaching and kinetics of copper from malachite ore in aqueous perchloric acid solutions**
TANAYDIN M. K., DEMİR KIRAN N.
SEPARATION SCIENCE AND TECHNOLOGY, vol.54, no.5, pp.815-827, 2019 (SCI-Expanded)
- X. **A Kinetic Model for Dissolution of Zinc Oxide Powder Obtained from Waste Alkaline Batteries in Sodium Hydroxide Solutions**
DEMİR KIRAN N., TURHAN ÖZDEMİR G. D.
METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE, vol.50, no.1, pp.491-501, 2019 (SCI-Expanded)
- XI. **Dissolution kinetics of calcined ulexite in ammonium sulfate solutions**
DEMİR KIRAN N., TANAYDIN M. K., TURHAN ÖZDEMİR G. D.
REVISTA DE METALURGIA, vol.54, no.1, 2018 (SCI-Expanded)
- XII. **Dissolution kinetics of colemanite in HCl solutions by measuring particle size distributions**
SİS H., Bentli I., DEMİR KIRAN N., Ekmekyapar A.

SEPARATION SCIENCE AND TECHNOLOGY, vol.53, no.1, pp.198-205, 2018 (SCI-Expanded)

- XIII. **Copper adsorption by natural manganese dioxide**
Demirkiran N.
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.25, no.2, pp.647-653, 2015 (SCI-Expanded)
- XIV. **EXAMINATION OF THE USE OF AMMONIUM ACETATE AS LIXIVANT IN RECOVERY OF ZINC FROM WASTE BATTERIES AND KINETIC ANALYSIS**
Demirkiran N.
ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL, vol.14, no.1, pp.51-56, 2015 (SCI-Expanded)
- XV. **LEACHING OF MALACHITE ORE IN AMMONIUM SULFATE SOLUTIONS AND PRODUCTION OF COPPER OXIDE**
EKMEKYAPAR A., DEMİRKIRAN N., KÜNKÜL A., AKTAS E.
BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING, vol.32, no.1, pp.155-165, 2015 (SCI-Expanded)
- XVI. **Preparation of cupric oxide by isothermal oxidation of metallic copper powder produced by electroless deposition**
DEMİRKIRAN N., Tanaydin M. K.
RUSSIAN JOURNAL OF NON-FERROUS METALS, vol.55, no.6, pp.529-532, 2014 (SCI-Expanded)
- XVII. **Copper Cementation with Zinc Recovered from Spent Zinc-Carbon Batteries and Dissolution of Cement Copper in Hydrochloric Acid Solutions**
Demirkiran N.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.52, no.24, pp.8157-8166, 2013 (SCI-Expanded)
- XVIII. **Dissolution of thermally dehydrated ulexite in ammonium acetate solutions**
DEMİRKIRAN N., BAYRAKCI N., Asin C.
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.23, no.6, pp.1797-1803, 2013 (SCI-Expanded)
- XIX. **A Study on Preparation of Copper Powder without an External Electrical Current Source**
Demirkiran N.
REVISTA DE CHIMIE, vol.64, no.4, pp.378-381, 2013 (SCI-Expanded)
- XX. **Recovery of Zinc Ions From the Resulting Solution after Copper Cementation with Metallic Zinc**
Demirkiran N.
SEPARATION SCIENCE AND TECHNOLOGY, vol.48, no.5, pp.827-832, 2013 (SCI-Expanded)
- XXI. **INVESTIGATION OF THE USE OF AMMONIUM ACETATE AS AN ALTERNATIVE LIXIVANT IN THE LEACHING OF MALACHITE ORE**
KÜNKÜL A., GULEZGIN A., DEMİRKIRAN N.
CHEMICAL INDUSTRY & CHEMICAL ENGINEERING QUARTERLY, vol.19, no.1, pp.25-35, 2013 (SCI-Expanded)
- XXII. **IMMOBILIZATION OF GLUCOSE OXIDASE IN SILICA SOL-GEL FILM FOR APPLICATION TO BIOSENSOR AND AMPEROMETRIC DETERMINATION OF GLUCOSE**
DEMİRKIRAN N., EKİNCİ E., ASİLTÜRK M.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.57, no.4, pp.1336-1339, 2012 (SCI-Expanded)
- XXIII. **Investigation of Leaching Kinetics of Copper from Malachite Ore in Ammonium Nitrate Solutions**
EKMEKYAPAR A., AKTAS E., KÜNKÜL A., DEMİRKIRAN N.
METALLURGICAL AND MATERIALS TRANSACTIONS B-PROCESS METALLURGY AND MATERIALS PROCESSING SCIENCE, vol.43, no.4, pp.764-772, 2012 (SCI-Expanded)
- XXIV. **Reductive leaching of pyrolusite ore by using sawdust for production of manganese sulfate**
EKMEKYAPAR A., Asin C., DEMİRKIRAN N., KÜNKÜL A., BAYSAR A., CEYLAN K.
RUSSIAN JOURNAL OF NON-FERROUS METALS, vol.53, no.3, pp.211-217, 2012 (SCI-Expanded)
- XXV. **Boric Acid Extraction from Calcined Colemanite with Ammonium Carbonate Solutions**
KÜNKÜL A., ASLAN N. E., EKMEKYAPAR A., DEMİRKIRAN N.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.51, no.9, pp.3612-3618, 2012 (SCI-Expanded)
- XXVI. **INVESTIGATION OF COPPER CEMENTATION KINETICS BY ROTATING ALUMINUM DISC FROM THE LEACH SOLUTIONS CONTAINING COPPER IONS**
EKMEKYAPAR A., Tanaydin M., DEMİRKIRAN N.
PHYSICO-CHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.48, no.2, pp.355-367, 2012 (SCI-Expanded)

- XXVII. **Immobilization of Glucose Oxidase in GLYMO/MTEOS Sol-Gel Film for Glucose Biosensor Application**
DEMİR KIRAN N., EKİNCİ E.
ACTA CHIMICA SLOVENICA, vol.59, no.2, pp.302-306, 2012 (SCI-Expanded)
- XXVIII. **Recovering of copper with metallic aluminum**
DEMİR KIRAN N., KÜNKÜL A.
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.21, no.12, pp.2778-2782, 2011 (SCI-Expanded)
- XXIX. **Dissolution of ulexite in ammonium carbonate solutions**
DEMİR KIRAN N., KÜNKÜL A.
THEORETICAL FOUNDATIONS OF CHEMICAL ENGINEERING, vol.45, no.1, pp.114-119, 2011 (SCI-Expanded)
- XXX. **Kinetic Investigation of Reaction Between Mineral Ulexite and Citric Acid**
EKMEKYAPAR A., KÜNKÜL A., DEMİR KIRAN N.
MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.31, no.4, pp.250-255, 2010 (SCI-Expanded)
- XXXI. **Dissolution kinetics of ulexite in ammonium nitrate solutions**
Demirkiran N.
HYDROMETALLURGY, vol.95, pp.198-202, 2009 (SCI-Expanded)
- XXXII. **DISSOLUTION KINETICS OF ULEXITE PREPARED UNDER DIFFERENT CALCINATION TEMPERATURES**
DEMİR KIRAN N., KÜNKÜL A.
BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING, vol.25, no.4, pp.751-758, 2008 (SCI-Expanded)
- XXXIII. **Dissolution kinetics of ulexite in acetic acid solutions**
EKMEKYAPAR A., DEMİR KIRAN N., KUENKUEL A.
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.86, pp.1011-1016, 2008 (SCI-Expanded)
- XXXIV. **A study on dissolution of ulexite in ammonium acetate solutions**
Demirkiran N.
CHEMICAL ENGINEERING JOURNAL, vol.141, pp.180-186, 2008 (SCI-Expanded)
- XXXV. **Dissolution kinetics of calcined ulexite in ammonium carbonate solutions**
Kunkul A., Demirkiran N.
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.24, no.6, pp.947-952, 2007 (SCI-Expanded)
- XXXVI. **Leaching kinetics of calcined ulexite in ammonium nitrate solutions**
DEMİR KIRAN N.
JOURNAL OF CHEMICAL ENGINEERING OF JAPAN, vol.40, no.9, pp.755-760, 2007 (SCI-Expanded)
- XXXVII. **Dissolution kinetics of ulexite in perchloric acid solutions**
Demirkiran N., Kunkul A.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.83, pp.76-80, 2007 (SCI-Expanded)
- XXXVIII. **A kinetic study of copper cementation with zinc in aqueous solutions**
Demirkiran N., EKMEKYAPAR A., Kunkul A., Baysar A.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.82, no.2, pp.80-85, 2007 (SCI-Expanded)
- XXXIX. **Dissolution kinetics of ulexite in ammonium sulfate solutions**
Kunkul A., Demirkiran N., BAYSAR A.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.42, no.5, pp.982-986, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Determination of Optimum pH and NH₃ Concentration of Malachite Ore for NH₃/NH₄NO₃ Leaching by Response Surface Method to Produce Cu/Zn Oxide Binary Catalyst**
TANAYDIN Z. B., DEMİR KIRAN N., Baysar A.
Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.38, no.2, pp.333-345, 2023 (Peer-Reviewed Journal)
- II. **Usability of alloys with different composition as electrode for electrochemical reduction of ferricyanide ion**
Altay I., YAPICI S., DEMİR KIRAN N.
SN APPLIED SCIENCES, vol.4, no.4, 2022 (ESCI)

- III. **KINETIC MODEL FOR DISSOLUTION OF CEMENT COPPER IN SULFURIC ACID SOLUTIONS CONTAINING CUPRIC IONS**
DEMİRKIRAN N., TURHAN ÖZDEMİR G. D.
CHEMISTRY & CHEMICAL TECHNOLOGY, vol.15, no.3, pp.395-402, 2021 (ESCI)
- IV. **Malahit Cevherinin Perklorik Asit Çözeltilerindeki Çözünürlüğünün İncelenmesi**
Tanaydın M. K., DEMİRKIRAN N.
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.32, no.3, pp.175-185, 2017 (Peer-Reviewed Journal)
- V. **Sulu Çözeltilerden Lewatit S-108 Katyon Değişim Reçinesiyle Bakır İyonlarının Adsorpsiyonu**
TOSUN E., TANAYDIN M. K., TURHAN ÖZDEMİR G. D., DEMİRKIRAN N.
Adıyaman Üniversitesi Mühendislik Bilimleri Dergisi, vol.5, pp.77-87, 2016 (Peer-Reviewed Journal)
- VI. **Atık Alkali Pillerden Elde Edilen Çinko Tozun Sodyum Hidroksit Çözeltilerindeki Çözünürlüğünün İncelenmesi**
TURHAN ÖZDEMİR G. D., DEMİRKIRAN N.
AFYON KOCATEPE ÜNİVERSİTESİ FEN VE MÜHENDİSLİK BİLİMLERİ DERGİSİ, vol.16, pp.61-67, 2016 (Peer-Reviewed Journal)
- VII. **DISSOLUTION KINETICS AND VARIATION OF PARTICLE SIZE OF KIRKA (TURKEY) ULEXITE IN HCL SOLUTIONS**
Sis H., Bentli I., Ekmekyapar A., Demirkiran N.
The Journal of Ore Dressing, vol.17, no.33, pp.27-37, 2015 (Peer-Reviewed Journal)
- VIII. **Dissolution kinetics and variation of particle size of Kırka Turkey ulexite in HCl solutions**
SİS H., BENTLİ İ., EKMEKYAPAR A., DEMİRKIRAN N.
Journal of Ore Dressing, vol.17, no.33, pp.27-37, 2015 (Peer-Reviewed Journal)
- IX. **ATIK PİLLERDEN METAL KAZANILMASINDA AMONYUM ASETATIN LIÇ REAKTİFİ OLARAK KULLANILABİLİRLİĞİNİN İNCELENMESİ**
DEMİRKIRAN N.
Çevre Bilim ve Teknoloji, vol.3, no.4, pp.275-282, 2012 (Peer-Reviewed Journal)
- X. **Sol-jel Kaplama Çözeltisi Bileşiminin Hidrojen Peroksit Yanıtlarına Etkisi**
DEMİRKIRAN N., EKİNCİ E.
KARAEMLAS FEN VE MÜHENDİSLİK DERGİSİ, vol.2, no.2, pp.18-23, 2012 (Peer-Reviewed Journal)
- XI. **LIÇ PROSESİNDE KULLANIM AMACIYLA KALSİNE ULEKSİT HAZIRLANMASI**
DEMİRKIRAN N., KÜNKÜL A.
Madencilik, vol.50, no.1, pp.43-53, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Amonyak/Amonyum Nitrat Çözeltilerinde Malahit Cevherinden Bakır ve Çinko Liçinin Yanıt Yüzey Yöntemiyle Optimizasyonu**
BAKICI TANAYDIN Z., BAYSAR A., DEMİRKIRAN N.
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019, pp.1206-1210
- II. **Production of ZnO from the Resulting Aqueous Solution after Dissolution of Metallic Zinc in Spent Zinc-Carbon Batteries**
DEMİRKIRAN N., Dardağan M., TURHAN ÖZDEMİR G. D.
International Conference on Innovative Engineering Applications (CIEA 2018), Sivas, Turkey, 20 - 22 September 2018, pp.315-320
- III. **Dissolution of Manganese Powder Obtained from the Waste Alkaline Batteries in Sulfuric Acid Solutions**
TURHAN G. D., DEMİRKIRAN N.
IATS'17 Symposium, Elazığ, Turkey, 19 - 21 October 2017

- IV. **Investigation of the Dissolution Behaviors in Different Solvents of the Zinc and Manganese Powders Obtained from the Spent Alkaline Batteries**
TURHAN ÖZDEMİR G. D., DEMİRKIRAN N.
Interrotional conference on advances and innovation in engineering, Elazığ, Turkey, 10 - 12 May 2017, vol.1, pp.131-134
- V. **Effect of the Reducing Agents on the Dissolution of the Manganese Powders Obtained from the Spent Alkaline Batteries**
TURHAN ÖZDEMİR G. D., DEMİRKIRAN N.
Interrotional conference on advances and innovation in engineering, Elazığ, Turkey, 10 - 12 May 2017, vol.1, pp.127-130
- VI. **Optimization of Copper Cementation by Aluminum Using Response Surface Methodology**
DARDAĞAN M., DEMİRKIRAN N., TURHAN ÖZDEMİR G. D.
Interrotional conference on advances and innovation in engineering, Elazığ, Turkey, 10 - 12 May 2017, vol.1, pp.137-141
- VII. **Effect of the Reducing Agents on the Dissolution of the Manganese Powders Obtained from the Spent Alkaline Batteries**
TURHAN ÖZDEMİR G. D., DEMİRKIRAN N.
Interrotional conference on advances and innovation in engineering, Elazığ, Turkey, 10 - 12 May 2017, vol.1, pp.127-130
- VIII. **Equilibrium Studies for Adsorption of Methylene Blue onto Hazelnut Husk**
SARICI ÖZDEMİR Ç., KARADAŞ K., DARDAĞAN M., DEMİRKIRAN N., TURHAN ÖZDEMİR G. D.
Interrotional conference on advances and innovation in engineering, Elazığ, Turkey, 10 - 12 May 2017, vol.1, pp.109-111
- IX. **Equilibrium Studies for Adsorption of Methylene Blue onto Hazelnut Husk Çiğdem**
SARICI ÖZDEMİR Ç., KARADAŞ K., DARDAĞAN M., DEMİRKIRAN N., TURHAN ÖZDEMİR G. D.
Interrotional conference on advances and innovation in engineering, Elazığ, Turkey, 10 - 12 May 2017, vol.1, pp.109-111
- X. **Kinetic Behaviour of Methylene Blue onto Hazelnut Husk**
DEMİRKIRAN N., DARDAĞAN M., KARADAŞ K., SARICI ÖZDEMİR Ç., TURHAN ÖZDEMİR G. D.
Interrotional conference on advances and innovation in engineering, Elazığ, Turkey, 10 - 12 May 2017, vol.1, pp.106-108
- XI. **Investigation of the Dissolution Behaviors in Different Solvents of the Zinc and Manganese Powders Obtained from the Spent Alkaline Batteries**
TURHAN ÖZDEMİR G. D., DEMİRKIRAN N.
Interrotional conference on advances and innovation in engineering, Elazığ, Turkey, 10 - 12 May 2017, vol.1, pp.131-134
- XII. **Kinetic Behaviour of Methylene Blue onto Hazelnut Husk**
DEMİRKIRAN N., DARDAĞAN M., KARADAŞ K., SARICI ÖZDEMİR Ç., TURHAN ÖZDEMİR G. D., GÜLEÇ F.
Interrotional conference on advances and innovation in engineering, Elazığ, Turkey, 10 - 12 May 2017, vol.1, pp.106-108
- XIII. **Optimization of Copper Cementation by Aluminum Using Response Surface Methodology**
DARDAĞAN M., DEMİRKIRAN N., TURHAN ÖZDEMİR G. D.
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