

Assoc. Prof. GAYE ÖZGÜR ÇAKAL

Personal Information

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ScopusID: 8926808000

Yoksis Researcher ID: 46518

Education Information

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Kimya Mühendisliği (Dr), Turkey 1999 - 2004

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Kimya Mühendisliği (YI) (Tezli), Turkey 1996 - 1998

Undergraduate, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, Turkey 1991 - 1995

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Dynamic behavior of continuous flow stirred slurry reactors in boric acid production, Middle East Technical University, Genel Biyoloji Anabilim Dalı, Kimya Mühendisliği (Dr), 2004

Postgraduate, Study of reactivity of coal in carbonization and gasification by thermogravimetric analysis, Middle East Technical University, Genel Biyoloji Anabilim Dalı, Kimya Mühendisliği (YI) (Tezli), 1998

Research Areas

Chemical Engineering and Technology, Chemical Technologies, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Ankara University, Nükleer Bilimler Enstitüsü, Nükleer Araştırmalar ve Teknolojileri Anabilim Dalı, 2018 - 2023

Assistant Professor, Ankara University, Nükleer Bilimler Enstitüsü, Medikal Fizik Bölümü, 2012 - 2018

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Chemical Engineering, 1997 - 2005

Academic and Administrative Experience

Head of Department, Ankara University, 2018 - 2023

Ankara University, 2015 - 2021

Ankara University, 2015 - 2021

Erasmus Coordinator, Ankara University, 2013 - 2021

Courses

Thermal and Fluid Sciences, Undergraduate, 2021 - 2022

Fluid Mechanics, Undergraduate, 2021 - 2022

RADYOKİMYA 1, Postgraduate, 2018 - 2019, 2015 - 2016, 2013 - 2014

ARAŞTIRMA YÖNTEMLERİ, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017

ARAŞTIRMA YÖNTEMLERİ, Doctorate, 2018 - 2019, 2017 - 2018

Nükleer Enerji ile Elektrik Üretimi (2.öğretim), Associate Degree, 2018 - 2019

Nükleer Enerji ile Elektrik Üretimi, Associate Degree, 2018 - 2019

RESEARCH METHODS, Postgraduate, 2017 - 2018, 2016 - 2017

İLERİ NÜKLEER ISI TRANSFERİ, Doctorate, 2016 - 2017, 2015 - 2016

Kütle ve Enerji Denklikleri (Mass and Energy Balances), Undergraduate, 2014 - 2015

Radyokimyasal İşlemler Laboratuvarı, Postgraduate, 2013 - 2014

Advising Theses

Çakal G. Ö., Adsorption of strontium and cesium from aqueous solutions by using natural, synthetic and magnetic zeolites, Postgraduate, A.MURAT(Student), 2022

Çakal G. Ö., Adsorption of Lead from aqueous solutions by using natural zeolite, perlite and clay minerals, Postgraduate, O.UYGUN(Student), 2022

ÇAKAL G. Ö., Bor nitrürün dozimetrik özelliklerinin lüminesans tekniklerle incelenerek sağlık fiziği uygulamalarında kullanılabilirliğinin araştırılması, Postgraduate, Ç.HAKAN(Student), 2021

ÇAKAL G. Ö., Gamma dose rate effects in TL and OSL of various luminescence dosimetric materials, Postgraduate, M.BAŞDOĞAN(Student), 2019

ÇAKAL G. Ö., GÖKÇE Ş. Ç., The effect of the use of thermoplastic mask on skin dose in head and neck irradiation, Postgraduate, E.İLKE(Student), 2019

ÇAKAL G. Ö., Radyokimyasal ayırma teknikleri kullanılarak sedimentlerde 210Pb ve 210po aktivite derişimlerinin belirlenmesi, Postgraduate, S.LİMON(Student), 2016

ÇAKAL G. Ö., Düşük seviye sıvı sintilasyon sayım (Isc) tekniği ile içme sularında toplam alfa ve beta aktivitesinin ölçülmesi için standart bir yöntem uygulanması, Postgraduate, R.GÜVEN(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comparison of h-BN material with metal implants in radiotherapy applications: Characterization and dose distribution measurements in LINAC**
Bozkurt A., ÇAKAL G. Ö., KAYA KELEŞ Ş., KAŞKAŞ ÖZTEPE A.
Radiation Physics and Chemistry, vol.212, 2023 (SCI-Expanded)
- II. **Magnetic sepiolite/iron(III) oxide composite for the adsorption of lead(II) ions from aqueous solutions**
Uygun O., Murat A., ÇAKAL G. Ö.
CLAY MINERALS, no.3, pp.267-279, 2023 (SCI-Expanded)
- III. **Adsorptive removal of stable and radioactive Pb(II) isotopes from aqueous solution using bentonite, zeolite and perlite: Characterization, isotherm and thermodynamic studies**

Uygun O., Guven R., ÇAKAL G. Ö.

Clay Minerals, 2023 (SCI-Expanded)

- IV. **Histomorphometric and biomechanical evaluation of the osseointegration around micro- and nano-level boron-nitride coated titanium dental implants**
Özmeriç N., ÇAKAL G. Ö., Gökmenoğlu C., Özmeriç A., Oduncuoğlu B. F., Hacaloğlu T., Kaftanoğlu B.
Journal of Stomatology, Oral and Maxillofacial Surgery, vol.123, no.6, 2022 (SCI-Expanded)
- V. **Thermoluminescence and optically stimulated luminescence of colemanite-rich borate mineral**
Kalita J., KAYA KELEŞ Ş., ÇAKAL G. Ö., Meriç N., Polymeris G.
Journal of Luminescence, vol.242, 2022 (SCI-Expanded)
- VI. **Thermoluminescence and optically stimulated luminescence properties of ulexite mineral**
Kalita J. M., Kaya-Keles Ş., ÇAKAL G. Ö., Meric N., Polymeris G. S.
Journal of Luminescence, vol.230, 2021 (SCI-Expanded)
- VII. **REFINER PRODUCTION OF SODIUM PERBORATE AND HYDROGEN PEROXIDE BLEACHED MECHANICAL PULP: CHARACTERIZATION AND PHYSICOMECHANICAL PROPERTIES**
Celik A. G., ÇAKAL G. Ö.
CELLULOSE CHEMISTRY AND TECHNOLOGY, vol.54, no.7-8, pp.735-743, 2020 (SCI-Expanded)
- VIII. **Gamma dose rate effects in luminescence signals of various artificial, well established dosimetric phosphors**
Polymeris G. S., Basdogan M., ÇAKAL G. Ö., AŞLAR E., Meric N.
RADIATION MEASUREMENTS, vol.133, 2020 (SCI-Expanded)
- IX. **Synthesis of zinc borate using water soluble additives: Kinetics and product characterization**
ÇAKAL G. Ö., Baltacı B., BAYRAM G., ÖZKAR S., Eroglu I.
JOURNAL OF CRYSTAL GROWTH, vol.533, 2020 (SCI-Expanded)
- X. **Surface Characterization and Corrosion Resistance of Boron Nitride Coated Titanium Dental Implants**
ÇAKAL G. Ö., Gokmenoglu C., Kaftanoglu B., Ozmeric N.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.55, no.3, pp.608-614, 2019 (SCI-Expanded)
- XI. **Coating of titanium implants with boron nitride by RF-magnetron sputtering**
GÖKMENOĞLU C., ÖZMERİÇ KURTULUŞ N., ÇAKAL G. Ö., Dokmetas N., Ergene C., KAFTANOĞLU B.
BULLETIN OF MATERIALS SCIENCE, vol.39, no.5, pp.1363-1370, 2016 (SCI-Expanded)
- XII. **CHARACTERIZATION OF ESPEY COLEMANITE AND VARIATION OF ITS PHYSICAL PROPERTIES WITH TEMPERATURE**
Celik A. G., ÇAKAL G. Ö.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.52, no.1, pp.66-76, 2016 (SCI-Expanded)
- XIII. **An application of LSC method for the measurement of gross alpha and beta activities in spiked water and drinking water samples**
ÇAKAL G. Ö., Guven R. Y., YÜCEL H.
NUKLEONIKA, vol.60, no.3, pp.637-642, 2015 (SCI-Expanded)
- XIV. **Flame retardancy and mechanical properties of pet-based composites containing phosphorus and boron-based additives**
Kilinc M., ÇAKAL G. Ö., BAYRAM G., Eroglu I., ÖZKAR S.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.132, no.22, 2015 (SCI-Expanded)
- XV. **Umbilical cord boron levels in term gestations**
Caglar G. S., ÇAKAL G. Ö., Kiseli M.
TRACE ELEMENTS AND ELECTROLYTES, vol.32, no.1, pp.37-41, 2015 (SCI-Expanded)
- XVI. **Surfactant modified zinc borate synthesis and its effect on the properties of PET**
Baltacı B., ÇAKAL G. Ö., BAYRAM G., EROĞLU İ., ÖZKAR S.
POWDER TECHNOLOGY, vol.244, pp.38-44, 2013 (SCI-Expanded)
- XVII. **EXPANDED PERLITE AGGREGATE CHARACTERIZATION FOR USE AS A LIGHTWEIGHT CONSTRUCTION RAW MATERIAL**

- Celik A. G., KILIÇ A. M., ÇAKAL G. Ö.
PHYSICOCHEMICAL PROBLEMS OF MINERAL PROCESSING, vol.49, no.2, pp.689-700, 2013 (SCI-Expanded)
- XVIII. PRODUCTION OF FINE ZINC BORATE IN INDUSTRIAL SCALE**
ÇAKAL G. Ö.
CHEMICAL INDUSTRY & CHEMICAL ENGINEERING QUARTERLY, vol.18, no.4, pp.547-553, 2012 (SCI-Expanded)
- XIX. Evaluation of serum boron levels and lipid profile in pregnancies with or without gestational diabetes**
Caglar G. S., ÇAKAL G. Ö., Yuce E., PABUÇCU R.
JOURNAL OF PERINATAL MEDICINE, vol.40, no.2, pp.137-140, 2012 (SCI-Expanded)
- XX. INVESTIGATION OF SYNERGISTIC EFFECT OF BORON ON FIRE RETARDANCY OF COTTON FABRICS**
ÇAKAL G. Ö., Gogebakan Z., COŞKUN S.
TEKSTİL VE KONFEKSİYON, vol.21, no.3, pp.265-271, 2011 (SCI-Expanded)
- XXI. Scale-up synthesis of zinc borate from the reaction of zinc oxide and boric acid in aqueous medium**
Kilinc M., ÇAKAL G. Ö., Yesil S., BAYRAM G., Eroglu I., ÖZKAR S.
JOURNAL OF CRYSTAL GROWTH, vol.312, no.22, pp.3361-3366, 2010 (SCI-Expanded)
- XXII. Improved synthesis of fine zinc borate particles using seed crystals**
Guerhan D., ÇAKAL G. Ö., Eroglu I., ÖZKAR S.
JOURNAL OF CRYSTAL GROWTH, vol.311, no.6, pp.1545-1552, 2009 (SCI-Expanded)
- XXIII. Simulation of continuous boric acid slurry reactors in series by microfluid and macrofluid models**
ÇAKAL G. Ö., Eroglu I., Oezkar S.
JOURNAL OF CRYSTAL GROWTH, vol.306, no.1, pp.240-247, 2007 (SCI-Expanded)
- XXIV. Physical and chemical properties of selected Turkish lignites and their pyrolysis and gasification rates determined by thermogravimetric analysis**
ÇAKAL G. Ö., Yucel H., Guruz A. G.
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.80, no.1, pp.262-268, 2007 (SCI-Expanded)
- XXV. Gypsum crystal size distribution in four continuous flow stirred slurry boric acid reactors in series compared with the batch**
ÇAKAL G. Ö., Eroglu I., ÖZKAR S.
JOURNAL OF CRYSTAL GROWTH, vol.290, no.1, pp.197-202, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. Enhanced Arsenic(V) Removal from Aqueous Solution by a Novel Magnetic Biochar Derived from Dairy Cattle Manure**
Akyurek Z., Celebi H., ÇAKAL G. Ö., Turgut S.
KOREAN CHEMICAL ENGINEERING RESEARCH, vol.60, no.3, pp.423-432, 2022 (ESCI)
- II. The Dietary, Serum and Urine Analysis of Boron and Micronutrients in Postmenopausal Women**
GÜLBAHAR A., ÇAKAL G. Ö., Dinçer Cengiz S., YÜCEL G. S.
CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.12, pp.812-816, 2022 (Peer-Reviewed Journal)
- III. Nükleer Adli Bilim ve İnceleme Konuları**
YÜCEL H., ÇAKAL G. Ö., Yüksel A. Ö., Kurt R., UYAR E., Güven S., HANCI İ. H.
Adli Bilimler Dergisi, vol.12, no.1, pp.37-48, 2013 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. Karayazı (Erzurum-Türkiye) Civarındaki Kil Minerallerinden Lityum Zenginleştirilmesi**
KADIOĞLU Y. K., ÇAKAL G. Ö., DENİZ YAĞCIOĞLU K., GÜVEM R.
19. Ulusal Kil Sempozyumu (Kil'2023), Eskişehir, Turkey, 06 September 2023
- II. Adsorption of Lead Isotopes from Aqueous Solutions Using Clay Minerals**

Uygun O., Güven R., ÇAKAL G. Ö.

International Nuclear Sciences and Technologies-INSTEC2022, Aydın, Turkey, 19 - 22 October 2022

- III. **Adsorption of Strontium and Cesium from Aqueous Solutions Using Natural, Synthetic and Modified Zeolites**
Murat A., ÇAKAL G. Ö.
International Nuclear Sciences and Technologies-INSTEC2022, Aydın, Turkey, 19 - 22 October 2022
- IV. **Investigation of Using h-BN Materials Having Different Diameters On Dose Distribution In Radiotherapy**
ÇAKAL G. Ö., Bozkurt A., KAYA KELEŞ Ş., KAŞKAŞ ÖZTEPE A.
International Boron Symposium- BORON2022, İstanbul, Turkey, 5 - 07 October 2022
- V. **Determination of the dosimetric properties of boron nitride by TL/OSL techniques**
Öztoprak H. Ç., Çakal G. Ö., Kaya Keleş Ş., Şahiner E., Polymeris G.
The Sixth Asia-Pacific Conference on Luminescence and Electron Spin Resonance Dating – APLED 2022, Ankara, Turkey, 26 - 28 September 2022
- VI. **DO BORON NITRIDE COATED TITANIUM IMPLANTS PREVENT BIOFILM FORMATION?**
IŞIK S., ÇAKAL G. Ö., Hacaloğlu T., KAFTANOĞLU B., GÜRPINAR Ö., ESER Ö., Sargon M. F., ÇAĞLAR Ö.
23rd EFORT Annual Congress, Lizbon, Portugal, 22 - 24 June 2022
- VII. **Dose measurement in radiotherapy using various thermoluminescence dosimeters**
Bozkurt A., KAYA KELEŞ Ş., ÇAKAL G. Ö., KAŞKAŞ ÖZTEPE A.
Ninth International Conference on Radiation in Various Fields of Research, Herceg Novi, Montenegro, 14 - 18 June 2021
- VIII. **Effect of boron nitride- coating on the osseointegration of titanium dental implants – A rabbit model**
ÖZMERİÇ KURTULUŞ N., GÖKMENOĞLU C., ÇAKAL G. Ö., Özmeriç A., ODUNCUOĞLU B. F., Kaftanoğlu B.
28th Annual Scientific Meeting of the European Association for Osseointegration, Lizbon, Portugal, 26 - 28 September 2019, vol.30, pp.233
- IX. **Gamma dose rate effects in luminescence signals of various dosimetric phosphors**
MERİÇ N., Başdoğan M., ÇAKAL G. Ö., AŞLAR E., ŞAHİNER E., Polymeris G.
19th International Conference on Solid State Dosimetry, 15 - 20 September 2019
- X. **DETERMINATION OF OPTIMUM PARAMETERS FOR 241Am ALPHA SOURCE PREPARATION BY ELECTRODEPOSITION METHOD**
YÜCEL H., ÇAKAL G. Ö., Güven R., Limon S.
NUTECH-2017 International Conference on Developments and Applications of Nuclear Technologies Kraków, 10-13 September, Krakow, Poland, 10 - 13 September 2017
- XI. **An application of LSC technique to determine 90Sr/90Y radionuclides in dry tea samples**
ÇAKAL G. Ö., GÜVEN R., YÜCEL H.
3rd International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, Adana, Turkey, 10 - 12 May 2017
- XII. **Measurement of Gross Alpha And Beta Activities in Drinking Water by Using Liquid Scintillation Counting LSC Technique and Proportional Counter**
Güven R., ÇAKAL G. Ö., YÜCEL H.
International Conference on Theoretical and Experimental Studies in Nuclear Applications and Technology, 28 - 30 April 2016
- XIII. **Measurement of Gross Alpha and Beta Activities in Drinking Water in Ankara by Using Low Level Liquid Scintillation and Gas Proportional Counting Methods**
GÜVEN R., ÇAKAL G. Ö., YÜCEL H.
TESNAT2016-Theoretical and Experimental Studies in Nuclear Applications and Technology, Hatay, Turkey, 28 - 30 April 2016
- XIV. **Measurement of 210Pb and 210Po Activity Concentrations in Certified Lagoon Sediment and Moss Soil by using LSC and Alpha Particle Spectrometry**
ÇAKAL G. Ö., Limon S., Güven R., YÜCEL H.
Third International Conference on Po and Radioactive Pb Isotopes, INCO-PoPb-2015, 11 - 14 October 2015, pp.79

- XV. **Coating of Titanium Implants with Boron Nitride by RF Magnetron Sputtering**
GÖKMENOĞLU C., ÖZMERİÇ KURTULUŞ N., ÇAKAL G. Ö., Dökmetaş N., Ergene C., Kaftanoğlu B.
EuroPerio8, European Federation of Periodontology, 3 - 06 June 2015
- XVI. **An Application of LSC Method for the Measurement of Gross Alpha and Beta Activities in Spiked Water and Drinking Water Samples**
ÇAKAL G. Ö., Güven R., YÜCEL H.
NUTECH-2014, International Conference on Development and Applications of Nuclear Technologies, Poland, 21 - 24 September 2014
- XVII. **Boron Nitride Coating on Titanium Dental Implants**
ÖZMERİÇ KURTULUŞ N., GÖKMENOĞLU C., Dökmetaş N., ÇAKAL G. Ö., Ergene C., Kaftanoğlu B.
American Academy of Periodontology, 99th Annual Meeting, Philadelphia, United States Of America, 28 September - 01 October 2013
- XVIII. **Effect of Temperature on the Thermal and Physical Properties of Espey Colemanite**
ÇELİK A. G., ÇAKAL G. Ö., KILIÇ A. M.
8th International Industrial Minerals Symposium, İstanbul, Turkey, 29 - 30 November 2012, pp.105-112
- XIX. **Maternal and Umbilical Cord Blood Boron Levels in Term Gestations**
CENGİZ S., ÇAĞLAR G. S., ÇAKAL G. Ö.
The 14th World Congress on Controversies in Obstetrics, Gynecology Infertility, All About Women's Health, Paris, France, 17 - 20 November 2011, pp.63
- XX. **Evaluation of Serum Boron Levels and Lipid Profiles in Pregnancy with or without Gestational Diabetes**
ÇAĞLAR G. S., ÇAKAL G. Ö., Yüce E., Pabuccu R.
ISTERH International Society for Trace Element Research in Humans, Antalya, Turkey, 16 - 21 October 2011, pp.9
- XXI. **Yüzey Etkin Madde Türünün Çinko Borat Sentezine Etkisi**
Baltacı B., ÇAKAL G. Ö., BAYRAM G., EROĞLU İ., ÖZKAR S.
9. Ulusal Kimya Mühendisliği Kongresi, Ankara, Turkey, 22 - 25 June 2010
- XXII. **Poli etilen tereftalat PET Bazlı Kompozitlere Fosfat ve Bor Bazlı Alev Geciktiricilerin Sinerjist Etkileri ve Kompozitlerin Yanma Davranışları ile Mekanik Özelliklerinin Belirlenmesi**
Kılınç M., BAYRAM G., YILMAZ A., ÇAKAL G. Ö., EROĞLU İ., ÖZKAR S.
3. Ulusal Polimer Bilim ve Teknoloji Kongresi ve Sergisi, Kocaeli, Turkey, 12 - 14 May 2010, pp.46
- XXIII. **Effect of Using Polymeric Additive on the Synthesis of Zinc Borate**
Baltacı B., ÇAKAL G. Ö., BAYRAM G., EROĞLU İ., ÖZKAR S.
6th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries, Antalya, Turkey, 7 - 12 March 2010, pp.160
- XXIV. **Borik Asit Üretim Sisteminin Algısal Yöntem İle Denetlenmesi**
Dervişoğlu Ö., Aşar I., ÇAKAL G. Ö., EROĞLU İ., Özgen C.
8. Ulusal Kimya Mühendisliği Kongresi, Malatya, Turkey, 26 - 29 August 2008, pp.18
- XXV. **Characterization of Flame Retardancy and Effect of Synergism on PET Based Composites via Phosphate Based Flame Retardant Additives**
Kılınç M., BAYRAM G., YILMAZ A., ÇAKAL G. Ö., EROĞLU İ., ÖZKAR S.
Polymer Processing Society 24th Annual Meeting, Salerno, Italy, 15 - 19 June 2008, pp.753
- XXVI. **Taze Kağıt Hamurunun İşletme Koşullarında Sodyum Perborat Monohidrat ile Ağartılması**
ÇELİK A. G., Saka M., Çelen M. E., ÇAKAL G. Ö.
II. Ulusal Bor Çalıştayı, Ankara, Turkey, 17 - 18 April 2008, pp.311-317
- XXVII. **3 5 Mol Kristal Sulu Çinko Boratın Pilot Ölçekte Üretimi ve Karakterizasyonu**
Kılınç M., Yeşil S., ÇAKAL G. Ö., BAYRAM G., EROĞLU İ., ÖZKAR S.
II. Ulusal Bor Çalıştayı, Ankara, Turkey, 17 August - 18 April 2008, pp.125-131
- XXVIII. **Bleaching of Mechanical Pulp with Sodium Perborate**
ÇELİK A. G., ÇAKAL G. Ö., Nas C., Saka M.
19th Industrial Minerals International Congress Exhibition, 30 March - 02 April 2008
- XXIX. **Production and Characterization of Hydrated Zinc Borate**

Kılınç M., Yeşil S., ÇAKAL G. Ö., BAYRAM G., ÖZKAR S., EROĞLU İ.

Somer Symposium 1, 14 - 15 May 2007, pp.51

- XXX. **Development of new boron micronutrient and determination of product applications**
ÇAKAL G. Ö., Soylu F., Celen M. E., Sener S., TABAN S., Shukla S. B.
Forum on Endocrine Disrupting Chemicals, California, United States Of America, 03 June 2005, pp.183-184
- XXXI. **Kinetics of Zinc Borate Production Reaction from Zinc Oxide and Boric Acid**
Gürhan D., EROĞLU İ., ÇAKAL G. Ö., ÖZKAR S.
III. International Boron Symposium, Ankara, Turkey, 2 - 04 November 2006, pp.231-236
- XXXII. **Inferencial Control of Boric Acid Production System**
Dervişoğlu Ö., Aşar I., EROĞLU İ., Özgen C., ÇAKAL G. Ö.
III. International Boron Symposium, Ankara, Turkey, 2 - 04 November 2006, pp.245-252
- XXXIII. **The Effect of Stirring Rate on the Dissolution of Colemanite and Particle Size of Gypsum Crystals during the Boric Acid Production in a Batch Reactor**
Erdoğan A., ÇAKAL G. Ö., ÖZKAR S., EROĞLU İ.
2nd International Boron Symposium, Turkey, 23 - 25 September 2004, pp.319-325
- XXXIV. **Particle Size Distribution of Gypsum Crystals in Four Continuous Flow Stirred Slurry Reactors in Series**
ÇAKAL G. Ö., ÖZKAR S., EROĞLU İ.
16th International Symposium on Industrial Crystallization, Dresden, Germany, 11 - 14 September 2005, vol.1, pp.465-471
- XXXV. **Kesikli Reaktörde Çinko Borat Üretimini Etkileyen Parametrelerin İncelenmesi**
Gürhan D., ÇAKAL G. Ö., EROĞLU İ., ÖZKAR S.
I. Ulusal Bor Çalıştayı, Ankara, Turkey, 28 - 29 April 2005, pp.223-230
- XXXVI. **Comparison of the Particle Sizes of Gypsum Crystals Obtained in the Production of Boric Acid by Batch and Continuous Flow Systems**
ÇAKAL G. Ö., Erdoğan A., ÖZKAR S., EROĞLU İ.
2nd International Boron Symposium, Turkey, 23 - 26 September 2004, pp.311-318
- XXXVII. **Sürekli Akışlı Karıştırmalı Borik Asit Reaktörlerinde Kolemanit Sülfürik Asit Besleme Oranının Ürün Safsızlığına Etkisi**
ÇAKAL G. Ö., ÖZKAR S., EROĞLU İ.
6. Ulusal Kimya Mühendisliği Kongresi, Turkey, 7 - 10 September 2004, pp.43
- XXXVIII. **Kolemanit Mineralinin Sülfürik Asitte Çözünme Kinetiğinin İncelenmesi**
Erdoğan A., ÇAKAL G. Ö., ÖZKAR S., EROĞLU İ.
6. Ulusal Kimya Mühendisliği Kongresi, Turkey, 7 - 10 September 2004, pp.44
- XXXIX. **Simulation of Gypsum Crystallization in Continuous Boric Acid Reactors by Microfluid and Macrofluid Models**
ÇAKAL G. Ö., Erdoğan A., Özkar N., ÖZKAR S., EROĞLU İ.
WASIC Workshop on Advance in Sensoring in Industrial Crystallization, İstanbul, Turkey, 18 - 20 June 2003, pp.50-57
- XL. **Effect of Particle Size of Colemanite on Gypsum Crystallization During Boric Acid Production**
Erdoğan A., ÇAKAL G. Ö., Özkar N., EROĞLU İ., ÖZKAR S.
WASIC Workshop on Advance in Sensoring in Industrial Crystallization, İstanbul, Turkey, 18 - 20 June 2003, pp.42-49
- XLI. **Termogravimetric Analiz Yöntemi ile Türk Kömürlerinin Karbonizasyon ve CO2 Aktivasyonu Sonucu Reaksiyona Girme Hızlarının Belirlenmesi**
ÇAKAL G. Ö., Gürüz G., YÜCEL H.
III. Ulusal Kimya Mühendisliği Kongresi, Erzurum, Turkey, 1 - 04 September 1998, pp.545-550

Supported Projects

Çakal G. Ö., Project Supported by Higher Education Institutions, Doğal, sentetik ve manyetik zeolitler ile sulu çözeltilerden stronsiyum ve sezyumun adsorpsiyonu, 2021 - 2022

Çakal G. Ö., Project Supported by Higher Education Institutions, Doğal zeolit, perlit ve kil mineralleri ile sulu çözeltilerden kurşun iyonlarının adsorpsiyonu, 2021 - 2022

Çağlar Ö., Işık S., Çakal G. Ö., Kaftanoğlu B., Hacaloğlu T., Project Supported by Higher Education Institutions, Osteomyelit Modelinde Bor Nitrür Kaplanmış İmplantların Antibakteriyel Etkinliğinin İncelenmesi, 2018 - 2020

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