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Education Information

Doctorate, Yıldız Technical University, Kimya Müh. Böl., Turkey 1987 - 1993

Postgraduate, Yıldız Technical University, Kimya Müh. Böl., Turkey 1983 - 1986

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Gaz Yakıt Oksijen Ön Karışım Alevlerinden Isı Geçişinin ve Bu Alevlerin Isı Etkinliklerinin İncelenmesi, Yıldız Teknik Üniversitesi, Kimy Met. Fak., Kimya Müh. Böl., 1993

Postgraduate, Alkali ve Toprak Alkali Metal Tuzları Sulu Çözeltilerinin Çeşitli Basınçlarda İncelenmesi, Yıldız Teknik Üniversitesi, Kimy Met. Fak., Kimya Müh. Böl., 1986

Research Areas

Chemistry, Physical Chemistry, Surface Chemistry, Natural Sciences

Academic Titles / Tasks

Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2017 - Continues

Associate Professor, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, 2011 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

1. The potential capability of treated perlite for removal of penta chloro nitrobenzene

Gülen J., Deler Ö.

Zeitschrift fur Physikalische Chemie, vol.238, no.6, pp.1103-1121, 2024 (SCI-Expanded)

- II. **Green synthesis of iron and silver nanoparticles from aqueous extract of buckwheat husk waste: antibacterial, cytotoxic, and dye decolorization properties**
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- III. **A concise approach for interpreting the removal kinetic of 2,4-D by carbonized peanut shell**
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- IV. **A novel biosorbent for remediation of colored waste water**
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- V. **Remediation of sulfur in two Turkish lignites under various treatments**
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- VI. **Carbon monoxide absorption with iron and alcohol solutions via design expert method**
Kandilci H. G., Özgündüz H. İ., Acaralı N., Gülen J.
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- VII. **Two-step fermentation of cooked rice with Aspergillus oryzae and Clostridium acetobutylicum YM1 for biobutanol production**
Öztürk A. B., Al-Shorgani N. K. N., Cheng S., Arasoğlu T., Gülen F. J., Habaki H., Egashira R., Kalil M. S., Yusoff W. M. W., Cross J. S.
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- VIII. **Chemical beneficiation of two Turkish lignites with various chemical treatments**
Gülen F. J., Boztepe A., Öztürk A. B., Kaya M., Kumral M.
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- IX. **Adsorption of 2,4-Dichlorophenoxyacetic Acid from Aqueous Solution Using Carbonized Chest Nut as Low Cost Adsorbent: Kinetic and Thermodynamic**
Gulen J., Aslan S.
ZEITSCHRIFT FUR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS, vol.234, no.3, pp.461-484, 2020 (SCI-Expanded)
- X. **Methylene Blue Adsorption on a Low Cost Adsorbent-Carbonized Peanut Shell**
Gulen J., Zorbay F.
WATER ENVIRONMENT RESEARCH, vol.89, no.9, pp.805-816, 2017 (SCI-Expanded)
- XI. **Removal of methylene blue by using porous carbon adsorbent prepared from carbonized chest nut shell**
GÜLEN F. J., İskeçeli M.
MATERIALS TESTING-MATERIALS AND COMPONENTS TECHNOLOGY AND APPLICATION, vol.59, no.2, pp.188-194, 2017 (SCI-Expanded)
- XII. **Removal of amitraz from aqueous solutions on clay by adsorption technique at industrial scale**
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- XIII. **Ultrasonic-assisted adsorption of methylene blue on sumac leaves**
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- XIV. **Utilization of petrographic analysis for determination of petroleum coke mixtures**
Cicioğlu Sütçü E., GÜLEN F. J.
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- XV. **The Effects of Temperature and Mineral Acids on the Demineralization Degree of Nallihan Lignite**
Gulen J., DOYMAZ İ., Pişkin S., Ongen S.

- ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.35, no.3, pp.202-208, 2013 (SCI-Expanded)
- XVI. **Adsorption of amitraz on the clay**
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American Journal of Engineering, vol.2, no.6, pp.1-8, 2013 (SCI-Expanded)
- XVII. **A Pyrolytic Study: The Effects of Heating Rates and Sweeping Gas Flow Rates on Temperatures**
Gulen J., ARSLAN H.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.31, no.20, pp.1840-1847, 2009 (SCI-Expanded)
- XVIII. **Pyrolysis and Gasification of Cotton Scrap Materials as a Municipal Solid Waste Material**
Gulen J., ARSLAN H.
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- XIX. **Investigation of the aqueous salt solutions of some first and second group metals at various pressures**
FILIZ M., Guelen J.
FLUID PHASE EQUILIBRIA, vol.267, no.1, pp.18-22, 2008 (SCI-Expanded)
- XX. **Adsorption of methylene blue from aqueous solution on pyrolyzed petrified sediment**
Aroguz A. Z., Gulen J., Evers R. H.
BIORESOURCE TECHNOLOGY, vol.99, no.6, pp.1503-1508, 2008 (SCI-Expanded)
- XXI. **The effect of aqueous caustic and various acid treatments on the removal of mineral matter in asphaltite**
DOYMAZ I., Gulen J., Pişkin S., TOPRAK S.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.29, no.4, pp.337-346, 2007 (SCI-Expanded)
- XXII. **Mineral matter identification in Nallihan lignite by leaching with mineral acids**
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- XXIII. **Removal of mineral matter from Silopi-Harput asphaltite by acid treatment**
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- XXIV. **Removal of mineral matter from Silopi-Harput asphaltite by acid treatment**
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- XXVI. **Thermal analysis of borogypsum and its effects on the physical properties of Portland cement**
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- XXVIII. **Heat Transfers from Gaseous Fuel Oxygen Flames to Metals**
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Applied Energy, vol.39, pp.201-205, 1991 (SCI-Expanded)

Articles Published in Other Journals

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GÜLEN F. J., TURAK F., ÖZGÜR M.
Eur. Chem. Bull., 2014, 3(6), 537-542, vol.3, pp.537-542, 2014 (Peer-Reviewed Journal)
- II. **Reçineler ve Kullanım Alanları**
GÜLEN F. J.
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- III. **Bor ve Bor Ürünlerinin Uygulama Alanları**
GÜLEN F. J., acaralı N., Saraç H.
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- IV. **Adsorption of 2,4-D on carbonized chest nut shell**
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- V. **Removal of Amitrole by Activated Clay**
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International Journal of Modern Chemistry, vol.2, no.2, pp.47-56, 2012 (Peer-Reviewed Journal)
- VI. **Biyogaz Hakkında Genel Bilgi ve Yan Ürünlerinin Kullanım Alanları**
GÜLEN F. J., Çeşmeli Ç.
EÜFBED Fen Bilimleri Enstitüsü Dergisi, vol.5, no.1, pp.65-84, 2012 (Peer-Reviewed Journal)
- VII. **Zeolitler ve kullanım Alanları**
GÜLEN F. J., Zorbay F., Aslan S.
KARAEMLAS FEN VE MÜHENDİSLİK DERGİSİ, vol.2, no.1, pp.63-68, 2012 (Peer-Reviewed Journal)
- VIII. **Removal of 2,4-dichlorofenoxyacetic Acid (2,4-D) with Carbonized Peanut Shell**
GÜLEN F. J., ErKayacan H.
A Journal of Modern Chemistry & Chemical Technology, vol.3, pp.28-34, 2012 (Peer-Reviewed Journal)
- IX. **Treatments of Çan Lignite with Some Mineral Acids after Sodyum Hydroxide Washing**
Gülen F. J., Pişkin S., Doymaz İ.
International Journal of Chemistry, vol.3, no.3, pp.75-80, 2011 (Peer-Reviewed Journal)
- X. **Treatments of Çan Lignite with Some Mineral Acids after Sodyum Hydroxide Washing**
GÜLEN F. J., PİŞKİN S., DOYMAZ İ.
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- XI. **Kömür ve Biyokütle Karışımının Yakılması Sonucu Oluşacak Sıcaklık Dağılımının Modellenmesi**
Çubuk H., GÜLEN F. J., Tepecik A.
Fırat Uni. Fen ve Müh. Bil. Dergisi, vol.20, no.4, pp.635-640, 2008 (Peer-Reviewed Journal)
- XII. **Biyogaz**
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Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.4, no.4, pp.121-129, 2005 (Peer-Reviewed Journal)
- XIII. **Briquetting of Fine Size Asphaltite without Binder**
Ateşok G., Özer M., Burat F., Önal G., GÜLEN F. J.
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- XIV. **Ardışık Yöntemlerle Silopi Asfaltitlerdeki Mineral Maddenin Giderilmesi**
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- XV. **Investigation of Petrographic and Structural Properties of Some Turkish Lignites**
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- XVI. **Gaz Yakıt-Oksijen Ön Karışım Alevlerinin Yanma Hızlarını Ölçmek İçin Bir Yöntem Geliştirilmesi**
Kocabıyık S., GÜLEN F. J., Kadırgan N.
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- XVII. **Saray, Çan, Tunçbilek, Ağaçlı, Seyitömer, Seyitömer (düşük kalorili) Linyitlerinin ve Şırnak**

Asfaltlerinin Termik Özelliklerinin İncelenmesi

Pişkin S., Kuyulu A., Loç İ., Kın B., GÜLEN F. J., Dinçer S.

Doğa TU Mühendislik ve Çevre Der, vol.13, no.3, pp.390-403, 1989 (Peer-Reviewed Journal)

Books

- I. **Potential Methods for Converting Coal into Gasification Products for Reduced Global Warming,**
GÜLEN F. J.
in: Impacts and Solutions to Global Warming, İbrahim Dinçer, Özgür Çolpan, Fethi Kadioğlu, Editor, Springer, Usa, pp.1035-1054, 2014
- II. **Effect of Oxidative Medium on Removal of Sulfur and Mineral Matter from the Çan Lignites**
GÜLEN F. J.
in: Global Warming Engineering Solutions Entitled Book, Dinçer, İ., Midilli, A., Hepbaşlı, A., Karakoç, T., Editor, Green Energy And Applied Technology Council (Atc) Series (Isbn 978-1-4419-1016-5), Newyork, pp.347-355, 2010

Papers Published in Refereed Scientific Meetings

- I. **Water Purification by a Biomass Adsorbent under Ultrasonic Effec**
Gülen F. J., Küçük İ., Salt İ., Saygı Yalçın B.
, 5. International Turkic World Conference on Chemical Science and Technologies, ITWCCST 2019 Conference, Sakarya, Turkey, 25 - 29 October 2019, pp.11-12
- II. **Production of Biobutanol from Cooked-Rice by Two-Step Fermentation**
Öztürk A. B., Arasoğlu T., Gülen F. J., Cross J. S.
JAPAN-CHINA-KOREA Joint Symposium on Energy and Environment, Nagano, Japan, 5 - 07 September 2019, pp.1
- III. **Optimization Study of Water-Based Acrylic Coatings for Glass Materials**
OKTAY R., ACARALI N., GÜLEN F. J.
Paint istanbul 2018, İstanbul, Turkey, 20 March 2018
- IV. **Optimization Study of Water Based Glass Dyes**
OKTAY R., ACARALI N., GÜLEN F. J.
paintistanbul2018, 20 - 21 March 2018
- V. **Examination of the Parameters Affecting the Functional Time of Electrical Primers**
Dündar M., Özkan D., Şahin A., GÜLEN F. J.
, International Conference on Advances in Mechanical Engineering ICAME 17, İstanbul, Turkey, 19 December 2017, pp.843-848
- VI. **Agglomerate Modeling Through Discreetly Distrubuted Catalyst Particles for Anion Exchange Membrane Fuel Cells**
Karpuz Ö., GÜLEN F. J.
International Conference on Advances in Mechanical Engineering ICAME 17, İstanbul, Turkey, 19 December 2017, pp.855-859
- VII. **A Study on Thermochemical and Biochemical Conversion Technologies for Biomass Residues**
Özgündüz İ., Acaralı N., Öztürk B., Çakırsoy A., GÜLEN F. J.
International Conference on Energy Systems Istanbul 2016 ICES 2016, İstanbul, Turkey, 21 December 2016, pp.294-298
- VIII. **A STUDY ON THERMOCHEMICAL AND BIOCHEMICAL CONVERSION TECHNOLOGIES FOR BIOMASS RESIDUES**
ÖZGÜNDÜZ H. İ., ACARALI N., ÖZTÜRK A. B., ÇAKIRSOY A., GÜLEN F. J.
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- IX. **Enhancement Biobutanol Tolerance of Clostridium Species and Sustainable Butanol Production Methods**

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- XI. **Removal of a Cationic Dye by a Biomass Adsorbent**
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- XII. **Investigation of Briquetting Performance of Yeniköy Lignite by Using Humic Acid**
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- XIII. **Losses of Alloying Elements in Metallurgical Applications**
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- XIV. **Investigation of Briquetting of A Turkish Lignite by Using Additives**
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- XV. **Removal of Monocrotophos by Clay**
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- XVII. **Adsorption of Naproxen Sodium by Clay**
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- XVIII. **Petrokok Kullanımı, Tanınması ve Düşündürdükleri**
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- XX. **Chemical Treatments for Decreasing of Sulfur and Mineral Matter in Nallıhan Lignite**
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- XXIII. **Boyar Madde Giderimi**
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- XXIV. **Metilen Mavisi Giderimi**
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- XXV. **Desulphurization Methods of Flue Gases**
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- XXVI. **Various Applications for Decreasing of Sulfur in Lignite**
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- XXVIII. **The Effect of Oxidative Medium for Decreasing of Sulfur & Mineral Matter of Çan Lignite**
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- XXX. **Pestisit Adsorpsiyonu İçin Bitkisel Kabuktan Faydalanma**
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X. Ulusal Spektroskopi Kongresi, İzmir, Turkey, 04 July 2007, pp.74
- XXXI. **Thermodynamic Aspects of the Adsorption of Dye on Sediment**
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- XXXII. **Utilization of Borax Waste as an Additive in Building Brick Production**
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- XXXV. **Tekstil Atıklarının Değerlendirilmesi**
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- XXXVIII. **Türkiye'nin Hidroelektrik Potansiyeli ve Çevresel Etkileri**
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- XXXIX. **Değişik Reaktifler Kullanarak Nallıhan Linyitinin Demineralizasyonu**
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- XL. **Demineralization of Asphaltite with Different Acids after Treating Sodium Hydroxide**
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- XLI. **Silopi-Harpur Asfaltitlerinin Flotasyon ve Demineralizasyonla Zenginleştirilmesi**
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- XLIII. Usage of Boron Concentration Wastes in Some Industries such as Brick, Cement, etc.**
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- XLIV. Talk Cevherinin Flotasyonla Zenginleştirilmesi ve Değerlendirilmesi**
GÜLEN F. J., Möröydor E., Yakar İ., Pişkin S.
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- XLV. Talk Cevherinin Boyut Analizine Göre Yapısal İncelenmesi**
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- XLVI. Fiziksel Özelliklerin Kömürün Kalitesine ve Termik Özelliklerine Etkisi**
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12. Ulusal Isı Bilimi ve Tekniği Kongresi, Sakarya, Turkey, 28 February 2000, vol.2, pp.757-761
- XLVII. Usage of Gypsum Waste Containing Boron in Plaster Production**
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Non Academic Experience

Yıldız Teknik Üni, Yrd. Doç. Dr.