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Eğitim Bilgileri

Doktora, Iowa State University of Science and Technology, Mühendislik Fakültesi, Kimya Mühendisliği, Amerika Birleşik Devletleri 1988 - 1994

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Türkiye 1985 - 1987

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Türkiye 1980 - 1985

Yabancı Diller

İspanyolca, A2 Temel

Almanca, B1 Orta

Yaptığı Tezler

Doktora, Proton NMR studies on supported metal catalysts, Iowa State University of Science and Technology, M, 1994

Yüksek Lisans, Momentum and heat transfer studies in an eccentric annulus, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 1987

Araştırma Alanları

Proses ve Reaktör Tasarımı, Temel İşlemler ve Termodinamik, Mühendislik ve Teknoloji

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2005 - Devam Ediyor

Prof. Dr., University of California, Berkeley, College Of Chemistry, Chemical And Biomolecular Engineering, 2015 - 2016

Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1999 - 2004

Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1995 - 1999

Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Mikro ve Nanoteknoloji Anabilim Dalı, 2022 - Devam Ediyor

Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2010 - 2013

Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2004 - 2006

Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 1998 - 2001

Verdiği Dersler

Advances in Catalysis, Yüksek Lisans, 2019 - 2020

Yönetilen Tezler

ÜNER D., Interaction of hydrogen with titanium dioxide and palladium-titanium dioxide surface at low and high temperature, Yüksek Lisans, M.YARAR(Öğrenci), 2022

ÜNER D., Investigation of the transient behaviors of photocatalytic no oxidation over TiO₂, Yüksek Lisans, S.ERNAM(Öğrenci), 2022

ÜNER D., Empirical evaluation of storage materials and conditions for propellant grade white fuming nitric acid, Yüksek Lisans, K.SAÇ(Öğrenci), 2022

ÜNER D., Determining service life and ageing characteristics of composite solid propellants by their chemical properties, Yüksek Lisans, Y.KÖSA(Öğrenci), 2022

ÜNER D., Modeling kinetics and thermodynamics of amine based fuel and oxidizer interactions, Yüksek Lisans, M.ÖZKAN(Öğrenci), 2021

Kazanç Özerinç F., Üner D., MODELING THE EFFECT OF SCR DENOX UNIT ON DIESEL ENGINE PERFORMANCE, Yüksek Lisans, P.PELEN(Öğrenci), 2020

Üner D., Sustainable hydrogen production process development using reducible oxides, Doktora, A.ÇALIŞAN(Öğrenci), 2020

Üner D., Elucidating the role of adsorbed states of hydrogen, water and carbon dioxide over TiO₂ and Pd/TiO₂, Yüksek Lisans, B.YILMAZ(Öğrenci), 2020

Üner D., Ammonia synthesis reaction under time interrupted conditions, Doktora, M.YASİN(Öğrenci), 2019

Üner D., Effect of ZnO morphology on photocatalytic activity determined by no oxidation, Yüksek Lisans, O.KAHRAMAN(Öğrenci), 2019

Üner D., Valorization of Şırnak asphaltite and biomass, Yüksek Lisans, V.HELVACI(Öğrenci), 2019

İpek Torun B., Üner D., HYDROGEN ADSORPTION ON CU (I)-EXCHANGED ZEOLITES, Yüksek Lisans, İ.Altıparmak(Öğrenci), 2019

ÜNER D., Effect of cobalt doping on photocatalytic activity of lead titanate, Yüksek Lisans, S.ODABAŞI(Öğrenci), 2018

Erkoç E., Üner D., Gliserolün fotokatalitik oksidasyonu, Yüksek Lisans, Ö.AKYAVAŞOĞLU(Öğrenci), 2018

ÜNER D., Optimization of operation temperatures and durations during solar thermal water splitting towards greater energy efficiencies, Yüksek Lisans, E.YAVUZYILMAZ(Öğrenci), 2016

ÜNER D., YILMAZ A., Hydrothermal synthesis of rare earth ions doped LaBO₃ and GdBO₃ orthoborates and their photoluminescence properties, Yüksek Lisans, S.VAHED(Öğrenci), 2016

ÜNER D., YILMAZ A., Nadir toprak iyonları ile katkılı LaBO₃ ve GdBO₃ ortoboratların hidrotermal sentezi, karakterizasyonu ve lüminesans özelliklerinin araştırılması, Yüksek Lisans, S.Vahed(Öğrenci), 2016

ÜNER D., The role of precious metal nanoparticles on the oxygen exchange kinetics from ceria, Yüksek Lisans, D.KAYA(Öğrenci), 2016

ÜNER D., Population balance modeling of TiO₂ nanoparticles synthesized via thermal hydrolysis method, Yüksek Lisans, A.DOĞAN(Öğrenci), 2015

ÜNER D., Characterization of adsorption-desorption properties of oxygen and water on mixed oxides, Yüksek Lisans,

C.ATEŞ(Öğrenci), 2015

ÜNER D., Karışık yapılı metal oksitlerde oksijen ve su adsorpsiyon desorpsiyon özelliklerinin karakterizasyonu., Yüksek Lisans, C.Ateş(Öğrenci), 2015

ÜNER D., Ni-bazlı bimetalik katalizörlerde metanın karbondioksit reformasyonu., Doktora, H.Ay(Öğrenci), 2014

ÜNER D., Design constraints for gas-liquid catalytic microreactors, Yüksek Lisans, N.BERKER(Öğrenci), 2014

ÜNER D., Carbon dioxide reforming of methane on Ni-based bimetallic catalysts, Doktora, H.AY(Öğrenci), 2014

ÜNER D., Ters akışlı reaktörlerde CO₂ indirgenmesi, Yüksek Lisans, N.Can(Öğrenci), 2013

ÜNER D., Syngas production over reducible metal oxides, Yüksek Lisans, A.ÇALIŞAN(Öğrenci), 2013

ÜNER D., Photocatalytic oxidation of NO_x over TiO₂ containing cement based materials, Yüksek Lisans, İ.BAYAR(Öğrenci), 2013

ÜNER D., Carbon dioxide reduction in reverse flow reactors, Yüksek Lisans, N.CAN(Öğrenci), 2013

ÜNER D., Çimento esaslı malzemeleri içeren TiO₂ ile NO_x'un fotokatalitik oksitlenmesi, Yüksek Lisans, İ.Bayar(Öğrenci), 2013

ÜNER D., Characterization and reactivity studies for chemical loop gasification of high sulfur lignites, Doktora, A.KANCA(Öğrenci), 2013

ÜNER D., Photocatalytic activity in nano sized titanium dioxide structures, Doktora, M.MEHMET(Öğrenci), 2012

ÜNER D., Supported Ru based ammonia synthesis catalysts, Yüksek Lisans, M.YAŞİN(Öğrenci), 2012

ÜNER D., YILMAZ A., Zaman kesikli reaksiyon koşullarında mezoporoz oksit katalizörleri kullanılarak hidrokarbonlardan hidrojen üretimi, Doktora, M.Can(Öğrenci), 2012

ÜNER D., Hydrogen generation from conventional fuels over mesoporous mixed oxide catalysts under time interrupted reaction conditions, Doktora, M.CAN(Öğrenci), 2011

ÜNER D., Photocatalytic carbon dioxide reduction in liquid media, Yüksek Lisans, B.İPEK(Öğrenci), 2011

ÜNER D., Synthesis and characterization of ethanol electro-oxidation catalysts, Doktora, H.DEMİR(Öğrenci), 2010

ÜNER D., The effects of platinum particle size to the efficiency of a dye sensitized solar cell (DSSC), Yüksek Lisans, H.BERK(Öğrenci), 2010

ÜNER D., Photocatalytic and photoelectrochemical water splitting over ordered titania nanotube arrays, Yüksek Lisans, O.KARSLIOĞLU(Öğrenci), 2009

ÜNER D., NO_x storage and reduction over Ce-Zr mixed oxide supported catalysts, Yüksek Lisans, B.ÇAĞLAR(Öğrenci), 2009

ÜNER D., Acidity characterization and adsorption characteristics of cobalt and lead doped SBA15 mesoporous materials, Yüksek Lisans, Ö.GÜNER(Öğrenci), 2007

ÜNER D., Methane activation via bromination over sulfated zirconia/SBA-15 catalysts, Doktora, V.DEĞİRMENCİ(Öğrenci), 2007

ÜNER D., Synthesis and characterization of Co-Pb/SBA-15 mesoporous catalysts, Yüksek Lisans, B.AKÇA(Öğrenci), 2006

ÜNER D., Structure and activity predictions on mono- and bi-metallic catalysts, Yüksek Lisans, E.ERÜNAL(Öğrenci), 2006

ÜNER D., Structure sensitivity of selective CO oxidation over precious metal catalysts, Yüksek Lisans, B.ATALIK(Öğrenci), 2005

ÜNER D., Artificial photosynthesis: Dye assisted photocatalytic reduction of carbon dioxide over pure and platinum containing titania, Yüksek Lisans, Ö.ÖZCAN(Öğrenci), 2005

ÜNER D., Dizel kurum oksidasyon katalizörler filtre sistem tasarımı, Yüksek Lisans, V.Eyüp(Öğrenci), 2005

ÜNER D., Steam reforming of ethanol over sol-gel-synthesized mixed oxide catalysts, Yüksek Lisans, H.ÖNDER(Öğrenci), 2005

ÜNER D., Diesel soot oxidation catalyst filter sytem design, Yüksek Lisans, V.EYÜP(Öğrenci), 2005

ÜNER D., Destekli metal katalizörlerinin karakterizasyonunda adsorblanma kalorimetresinin kullanımı : pt/y-al₂o₃ katalizörü üzerinde adsorblanmanın yapısal duyarlılığı, Yüksek Lisans, M.Üner(Öğrenci), 2004

ÜNER D., Adsorption calorimetry in supported catalyst characterization: Adsorption structure sensitivity on Pt/gamma-AI₂O₃, Yüksek Lisans, M.ÜNER(Öğrenci), 2004

ÜNER D., Soot oxidation catalysis, Yüksek Lisans, M.KEMAL(Öğrenci), 2002

ÜNER D., CO oxidation on alumina supporter Pd-Pt mono- and BI-metallic catalysts : temperature hysteresis., Yüksek Lisans, S.Kaya(Öğrenci), 2002

ÜNER D., CO oxidation on alumina supported Pd-Pt mono and bi-metallic catalysts: Temperature hysteresis, Yüksek

Lisans, S.KAYA(Öğrenci), 2002

ÜNER D., Assessment of exhaust emissions from gasoline fueled motor vehicles, Yüksek Lisans, R.GÜLTEKİN(Öğrenci), 2001

ÜNER D., Catalytic combustion of diesel soot, Yüksek Lisans, B.DERNAİKA(Öğrenci), 2001

ÜNER D., Effect of cerium dioxide on carbonmonoxide oxidation reaction mechanism over Pt/y-Al₂O₃ catalyst, Yüksek Lisans, U.ORAN(Öğrenci), 2001

ÜNER D., Thermal and photocatalytic oxidation of carbon monoxide over titanium dioxide-effects of platinum deposition, Yüksek Lisans, İ.ÖZEN(Öğrenci), 2001

Üner D., Adsorption dynamics and reaction kinetics at gas-solid interfaces: applications in catalysis and gas sensors, Yüksek Lisans, N.Alper(Öğrenci), 1999

ÜNER D., DOĞU T., Determination of rate processes and parameters for hydrogen adsorption on silica supported ruthenium catalysts, Yüksek Lisans, A.İLDEŞ(Öğrenci), 1999

Üner D., Improvements in adhesion properties of solid propellant rocket liner, Yüksek Lisans, F.Burcu(Öğrenci), 1998

Üner D., Studies on photocatalytic reactions : heterogeneous photocatalysis by titaniumdioxide, Yüksek Lisans, S.Özbek(Öğrenci), 1998

Üner D., De-nox catalysis via bimetallics, Yüksek Lisans, D.Ernur(Öğrenci), 1998

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Effects of dead volume and inert sweep gas flow on photocatalytic hydrogen evolution over Pt/TiO₂**
Can Özcan E., ÜNER D., Yıldırım R.
International Journal of Hydrogen Energy, cilt.75, ss.540-546, 2024 (SCI-Expanded)
- II. **Dissociation of HNO₃ in water revisited: experiment and theory**
Munar I., Özer M. Ö., Fusco E., ÜNER D., Aviyente V., Bühl M.
Physical Chemistry Chemical Physics, cilt.26, sa.23, ss.16616-16624, 2024 (SCI-Expanded)
- III. **LaCoO₃ is a promising catalyst for the dry reforming of benzene used as a surrogate of biomass tar**
Çağlar B., ÜNER D.
Turkish Journal of Chemistry, cilt.48, sa.4, ss.643-658, 2024 (SCI-Expanded)
- IV. **PdH α -phase is associated with residual oxygen as revealed by in situ 1H NMR measurements and DFT-NMR estimations**
Mete E., YILMAZ B., ÜNER D.
Applied Surface Science, cilt.641, 2023 (SCI-Expanded)
- V. **Pd as a reduction promoter for TiO₂: Oxygen and hydrogen transport at 2D and 3D Pd interfaces with TiO₂ monitored by TPR, operando 1H NMR and CO oxidation studies**
YARAR M., Bouzani A., ÜNER D.
Catalysis Communications, cilt.174, 2023 (SCI-Expanded)
- VI. **Recommendations for improving the experimental protocol for the determination of photocatalytic activity by nitric oxide oxidation measurements**
ERNAM S., Akgül Z. E., ÜNER D.
Turkish Journal of Chemistry, cilt.47, sa.5, ss.1285-1295, 2023 (SCI-Expanded)
- VII. **Elucidating the role of adsorption during artificial photosynthesis: H₂O and CO₂ adsorption isotherms over TiO₂ reveal thermal effects under UV illumination**
ÜNER D., YILMAZ B.
PHOTOSYNTHESIS RESEARCH, cilt.154, sa.3, ss.353-367, 2022 (SCI-Expanded)
- VIII. **Oxygen vacancies on Pd/TiO₂ are detected at low pressures by ESR spectroscopy at ambient temperatures**
ÜNER D., YARAR M.
Turkish Journal of Chemistry, cilt.46, sa.4, ss.1081-1088, 2022 (SCI-Expanded)
- IX. **Microstructure, resistivity, and shear strength of electrically conductive adhesives made of silver-coated copper powder**

Hamrah Z. S., Lashgari V. A., Mohammadi M. H. D., Uner D., Pourabdoli M.

MICROELECTRONICS RELIABILITY, cilt.127, 2021 (SCI-Expanded)

- X. **Construction of phase diagrams to estimate phase transitions at high pressures: A critical point at the solid liquid transition for benzene**
Ibrahimoglu B., ÜNER D., Veziroglu A., Karakaya F., Ibrahimoglu B.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.46, sa.29, ss.15168-15180, 2021 (SCI-Expanded)
- XI. **The effect of H₂:N₂ ratio on the NH₃ synthesis rate and on process economics over the Co₃Mo₃N catalyst**
ASLAN M., Hargreaves J. S., ÜNER D.
Faraday Discussions, cilt.229, ss.475-488, 2021 (SCI-Expanded)
- XII. **Elucidating the Barriers on Direct Water Splitting: Key Role of Oxygen Vacancy Density and Coordination over PbTiO₃ and TiO₂**
METE E., Ellialtioglu S., GÜLSEREN O., ÜNER D.
JOURNAL OF PHYSICAL CHEMISTRY C, cilt.125, sa.3, ss.1874-1880, 2021 (SCI-Expanded)
- XIII. **Double Perovskite Structure Induced by Co Addition to PbTiO₃: Insights from DFT and Experimental Solid-State NMR Spectroscopy**
Mete E., Odabasi S., Mao H., Chung T., Ellialtioglu S., Reimer J. A., Gulseren O., ÜNER D.
JOURNAL OF PHYSICAL CHEMISTRY C, cilt.123, sa.44, ss.27132-27139, 2019 (SCI-Expanded)
- XIV. **H-2 adsorption on Cu(I)-ZSM-5: Exploration of Cu(I)-exchange in solution**
Altıparmak İ., Karakaya B., Üner D., İpek Torun B.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.44, ss.18866-18874, 2019 (SCI-Expanded)
- XV. **Fundamentals of hydrogen storage processes over Ru/SiO₂ and Ru/Vulcan**
ASLAN M. Y., ÜNER D.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.44, sa.34, ss.18903-18914, 2019 (SCI-Expanded)
- XVI. **Steam methane reforming over structured reactors under concentrated solar irradiation**
Calisan A., Ogulgonen C. G., Yilmaz A., ÜNER D., Kincal S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.44, sa.34, ss.18682-18693, 2019 (SCI-Expanded)
- XVII. **Finding the optimum between volatility and cycle temperatures in solar thermochemical hydrogen production: Pb/PbO pair**
Calisan A., Ogulgonen C. G., Kincal S., ÜNER D.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.44, sa.34, ss.18671-18681, 2019 (SCI-Expanded)
- XVIII. **In situ and downstream sulfidation reactivity of PbO and ZnO during pyrolysis and hydrogenation of a high-sulfur lignite**
KANCA A., ÜNER D.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.44, sa.34, ss.18827-18835, 2019 (SCI-Expanded)
- XIX. **Facilitating role of Pd for hydrogen, oxygen and water adsorption/desorption processes from bulk CeO₂ and CeO₂/gamma- Al₂O₃**
Kaya D., Singh D., Kincal S., ÜNER D.
CATALYSIS TODAY, cilt.323, ss.141-147, 2019 (SCI-Expanded)
- XX. **Enhancement of hydrogen storage capacity of multi-walled carbon nanotubes with palladium doping prepared through supercritical CO₂ deposition method**
ERÜNAL E., Ulusal F., ASLAN M. Y., GÜZEL B., ÜNER D.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.43, sa.23, ss.10755-10764, 2018 (SCI-Expanded)
- XXI. **Effect of mechanical activation on thermal energy storage properties of Co₃O₄/CoO system**
Nekokar N., Pourabdoli M., Hamidi A. G., ÜNER D.
ADVANCED POWDER TECHNOLOGY, cilt.29, sa.2, ss.333-340, 2018 (SCI-Expanded)
- XXII. **H-2 Adsorption on Cu(I)-SSZ-13**
Ipek B., Pollock R. A., Brown C. M., Üner D., Lobo R. F.
JOURNAL OF PHYSICAL CHEMISTRY C, cilt.122, ss.540-548, 2018 (SCI-Expanded)
- XXIII. **Following the structure and reactivity of Tuncbilek lignite during pyrolysis and hydrogenation**
Kanca A., Dodd M., Reimer J. A., ÜNER D.

- FUEL PROCESSING TECHNOLOGY, cilt.152, ss.266-273, 2016 (SCI-Expanded)
- XXIV. **Using spilled over hydrogen in NH₃ synthesis over supported Ru catalysts**
ÜNER D., ASLAN M. Y.
CATALYSIS TODAY, cilt.272, ss.49-57, 2016 (SCI-Expanded)
- XXV. **Dry reforming of methane over CeO₂ supported Ni, Co and Ni-Co catalysts**
Ay H., ÜNER D.
APPLIED CATALYSIS B-ENVIRONMENTAL, cilt.179, ss.128-138, 2015 (SCI-Expanded)
- XXVI. **The influence of relative humidity on photocatalytic oxidation of nitric oxide (NO) over TiO₂**
ÜNER D., Bayar I., Tabari T.
APPLIED SURFACE SCIENCE, cilt.354, ss.260-266, 2015 (SCI-Expanded)
- XXVII. **Time interrupted behavior of ammonia synthesis over ruthenium based catalysts**
ÜNER D., ASLAN M. Y., Uner N. B.
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, cilt.249, 2015 (SCI-Expanded)
- XXVIII. **Effect of process control agents on synthesizing nano-structured 2Mg-9Ni-Y catalyst by mechanical milling and its catalytic effect on desorption capacity of MgH₂**
Hosseini-Gourajoubi F., Pourabdoli M., ÜNER D., Raygan S.
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- XXIX. **A comparative study for synthesis methods of nano-structured (9Ni-2Mg-Y) alloy catalysts and effect of the produced alloy on hydrogen desorption properties of MgH₂**
Pourabdoli M., Raygan S., Abdizadeh H., ÜNER D.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.38, sa.36, ss.16090-16097, 2013 (SCI-Expanded)
- XXX. **Determination of kinetic parameters and hydrogen desorption characteristics of MgH₂-10 wt% (9Ni-2Mg-Y) nano-composite**
Pourabdoli M., Raygan S., Abdizadeh H., ÜNER D.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.38, sa.27, ss.11910-11919, 2013 (SCI-Expanded)
- XXXI. **On the mechanism of photocatalytic CO₂ reduction with water in the gas phase**
ÜNER D., Oymak M. M.
CATALYSIS TODAY, cilt.181, sa.1, ss.82-88, 2012 (SCI-Expanded)
- XXXII. **Comparative photodecolorization of red dye by anatase, rutile (TiO₂), and wurtzite (ZnO) using response surface methodology**
Khameneh S., Sadrnezhaad S. K., Rad M. K., ÜNER D.
TURKISH JOURNAL OF CHEMISTRY, cilt.36, sa.1, ss.121-135, 2012 (SCI-Expanded)
- XXXIII. **NO oxidation and NO_x storage over Ce-Zr mixed oxide supported catalysts**
Caglar B., ÜNER D.
CATALYSIS COMMUNICATIONS, cilt.12, sa.6, ss.450-453, 2011 (SCI-Expanded)
- XXXIV. **Carbon Nanotube Structures as Support for Ethanol Electro-Oxidation Catalysis**
Kivrak H., Kuliyevev S., Tempel H., Schneider J., Uner D.
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, cilt.9, 2011 (SCI-Expanded)
- XXXV. **Sulfated Zirconia Modified SBA-15 Catalysts for Cellobiose Hydrolysis**
Degirmenci V., ÜNER D., Cinlar B., Shanks B. H., YILMAZ A., van Santen R. A., Hensen E. J. M.
CATALYSIS LETTERS, cilt.141, sa.1, ss.33-42, 2011 (SCI-Expanded)
- XXXVI. **CO₂ utilisation by photocatalytic conversion to methane and methanol**
Uner D., Oymak M. M., Ipek B.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, cilt.3, ss.142-162, 2011 (SCI-Expanded)
- XXXVII. **Selective methane bromination over sulfated zirconia in SBA-15 catalysts**
Degirmenci V., YILMAZ A., ÜNER D.
CATALYSIS TODAY, cilt.142, ss.30-33, 2009 (SCI-Expanded)
- XXXVIII. **Pt-incorporated anatase TiO₂(001) surface for solar cell applications: First-principles density functional theory calculations**
METE E., ÜNER D., GÜLSEREN O., ELLİALTIOĞLU S. Ş.
PHYSICAL REVIEW B, cilt.79, sa.12, 2009 (SCI-Expanded)

- XXXIX. **Determination of the dispersion of supported Pt particles by gas-phase and liquid-phase measurements**
Kivrak H., Mastalir A., Kiraly Z., ÜNER D.
CATALYSIS COMMUNICATIONS, cilt.10, sa.6, ss.1002-1005, 2009 (SCI-Expanded)
- XL. **On the Structure Sensitivity of CO Oxidation on Alumina Supported Pd-Pt Bimetallic Catalysts**
Kaya S., Erunal E., Shaltaf R., Ellialtioglu S., ÜNER D.
TURKISH JOURNAL OF CHEMISTRY, cilt.33, sa.1, ss.11-21, 2009 (SCI-Expanded)
- XLI. **Oxidation States and the Acidity of Ordered Arrays of Co-Pb Mixed Oxide Nanoparticles Templated in SBA15**
Akca B., Guner O., Can M., YILMAZ A., ÜNER D.
TOPICS IN CATALYSIS, cilt.49, ss.187-192, 2008 (SCI-Expanded)
- XLII. **Synthesis and NMR Characterization of Titanium and Zirconium Oxides Incorporated in SBA-15**
Degirmenci V., Erdem O. F., Ergun O., YILMAZ A., Michel D., ÜNER D.
TOPICS IN CATALYSIS, cilt.49, ss.204-208, 2008 (SCI-Expanded)
- XLIII. **CO Oxidation over Mono and Bi-Metallic Sequentially Impregnated Pd-Pt Catalysts**
Kaya S., ÜNER D.
TURKISH JOURNAL OF CHEMISTRY, cilt.32, sa.5, ss.645-652, 2008 (SCI-Expanded)
- XLIV. **Dye sensitized CO₂ reduction over pure and platinized TiO₂**
Ozcan O., Yukruk F., Akkaya E. U., Uner D.
TOPICS IN CATALYSIS, cilt.44, sa.4, ss.523-528, 2007 (SCI-Expanded)
- XLV. **Effect of molecular and electronic structure on the light-harvesting properties of dye sensitizers**
Mete E., Uner D., Cakmak M., Gulseren O., Ellialtuglu S.
JOURNAL OF PHYSICAL CHEMISTRY C, cilt.111, sa.20, ss.7539-7547, 2007 (SCI-Expanded)
- XLVI. **Sulfated zirconia in SBA-15 structures with strong Bronsted acidity as observed by H-1 MAS NMR spectroscopy**
Degirmenci V., Erdem O. F., Yilmaz A., Michel D., Uner D.
CATALYSIS LETTERS, cilt.115, ss.79-85, 2007 (SCI-Expanded)
- XLVII. **Dye sensitized artificial photosynthesis in the gas phase over thin and thick TiO₂ films under UV and visible light irradiation**
Ozcan O., Yukruk F., Akkaya E. U., Uner D.
APPLIED CATALYSIS B-ENVIRONMENTAL, cilt.71, ss.291-297, 2007 (SCI-Expanded)
- XLVIII. **Liquid chromatography as a novel method for determination of the dispersion of supported Pd particles**
Kiraly Z., Mastalir A., Csaszar A., Demir H., Uner D., Findenegg G. H.
JOURNAL OF CATALYSIS, cilt.245, sa.2, ss.267-271, 2007 (SCI-Expanded)
- XLIX. **Preparation and characterization of ordered TiO₂ photocatalysts: films and mesoporous structures**
Erguen O., Karslioglu O., YILMAZ A., ÜNER D.
TURKISH JOURNAL OF CHEMISTRY, cilt.31, sa.5, ss.501-508, 2007 (SCI-Expanded)
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Akademi Dışı Deneyim

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