Prof. DENIZ ÜNER

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: P-5819-2015

ScopusID: 6603719926 Yoksis Researcher ID: 3562

Education Information

Doctorate, Iowa State University of Science and Technology, College of Engineering, Chemical Engineering, United States Of America 1988 - 1994

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Kimya Mühendisliği (Yl) (Tezli), Turkey 1985 - 1987

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, Turkey 1980 - 1985

Foreign Languages

Spanish, A2 Elementary German, B1 Intermediate

Dissertations

Doctorate, Proton NMR studies on supported metal catalysts, Iowa State University of Science and Technology, Engineering, Chemical Engineering, 1994

Postgraduate, Momentum and heat transfer studies in an eccentric annulus, Middle East Technical University, Graduate School of Natural and Applied Sciences, 1987

Research Areas

Process and Reactor Design, Basic Operations and Thermodynamics, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2005 - Continues

Professor, University of California, Berkeley, College Of Chemistry, Chemical And Biomolecular Engineering, 2015 - 2016

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 1999 - 2004

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 1995 - 1999

Academic and Administrative Experience

Head of Department, Middle East Technical University, Graduate School of Natural and Applied Sciences, Micro and Nanotechnology, 2022 - Continues

 $Middle\ East\ Technical\ University,\ Faculty\ of\ Engineering,\ Department\ of\ Chemical\ Engineering,\ 2010-2013$

Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 2004 - 2006

Middle East Technical University, Faculty of Engineering, Department of Chemical Engineering, 1998 - 2001

Courses

Advances in Catalysis, Postgraduate, 2019 - 2020

Advising Theses

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

ÜNER D., Investigation of the transient behaviors of photocatalytic no oxidation over TiO2, Postgraduate,

S.ERNAM(Student), 2022

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

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

ÜNER D., Modeling kinetics and thermodynamics of amine based fuel and oxidizer interactions, Postgraduate, M.ÖZKAN(Student), 2021

Kazanç Özerinç F., Üner D., MODELING THE EFFECT OF SCR DENOX UNIT ON DIESEL ENGINE PERFORMANCE,

Postgraduate, P.PELEN(Student), 2020

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

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

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

Üner D., Effect of ZnO morphology on photocatalytic activity determined by no oxidation, Postgraduate,

O.KAHRAMAN(Student), 2019

Üner D., Valorization of Şırnak asphaltite and biomass, Postgraduate, V.HELVACI(Student), 2019

İpek Torun B., Üner D., HYDROGEN ADSORPTION ON CU (I)-EXCHANGED ZEOLITES, Postgraduate,

İ.Altıparmak(Student), 2019

 $\hbox{\"{U}NER D., Effect of cobalt doping on photocatalytic activity of lead titanate, Postgraduate, S.ODABA\\ \verb|SI(Student)|, 2018|, and all the properties of$

Erkoç E., Üner D., Gliserolün fotokatalitik oksidasyonu, Postgraduate, Ö.AKYAVAŞOĞLU(Student), 2018

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

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

ÜNER D., YILMAZ A., Hydrothermal synthesis of rare earth ions doped LaBO3 and GdBO3 and their photoluminescence

properties, Postgraduate, S.Vahed(Student), 2016

ÜNER D., The role of precious metal nanoparticles on the oxygen exchange kinetics from ceria, Postgraduate,

D.KAYA(Student), 2016

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

ÜNER D., Characterization of adsorption-desorption properties of oxygen and water on mixed oxides, Postgraduate, C.ATEŞ(Student), 2015

ÜNER D., Characterization of adsorption-desorption properties of oxygen & water on mixed oxides, Postgraduate, C.Ateş(Student), 2015

ÜNER D., Carbon dioxide reforming of methane on Ni-based bimetallic catalyts, Doctorate, H.Ay(Student), 2014

ÜNER D., Design constraints for gas-liquid catalytic microreactors, Postgraduate, N.BERKER(Student), 2014

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

ÜNER D., CO2 reduction in reverse flow reactors, Postgraduate, N.Can(Student), 2013

ÜNER D., Syngas production over reducible metal oxides, Postgraduate, A.ÇALIŞAN(Student), 2013

ÜNER D., Photocatalytic oxidation of NOX over TiO2 containing cement based materials, Postgraduate, İ.BAYAR(Student), 2013

ÜNER D., Carbon dioxide reduction in reverse flow reactors, Postgraduate, N.CAN(Student), 2013

ÜNER D., Photocatalytic oxidation of NOX over TiO₂ containing cement based materials, Postgraduate, İ.Bayar(Student), 2013

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

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

ÜNER D., Supported Ru based ammonia synthesis catalysts, Postgraduate, M.YASİN(Student), 2012

ÜNER D., YILMAZ A., Hydrogen generation of conventional fuels over mesoporous mixed oxide catalysts under time interrrupted reaction conditions, Doctorate, M.Can(Student), 2012

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

ÜNER D., Photocatalytic carbon dioxide reduction in liquid media, Postgraduate, B.İPEK(Student), 2011

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

ÜNER D., The effects of platinum particle size to the efficiency of a dye sensitized solar cell (DSSC), Postgraduate,

H.BERK(Student), 2010

ÜNER D., Photocatalytic and photoelectrochemical water splitting over ordered titania nanotube arrays, Postgraduate, O.KARSLIOĞLU(Student), 2009

ÜNER D., NOx storage and reduction over Ce-Zr mixed oxide supported catalysts, Postgraduate, B.ÇAĞLAR(Student), 2009

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

ÜNER D., Methane activation via bromination over sulfated zirconia/SBA-15 catalysts, Doctorate,

V.DEĞİRMENCİ(Student), 2007

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

ÜNER D., Structure and activity predictions on mono- and bi-metallic catalysts, Postgraduate, E.ERÜNAL(Student), 2006

ÜNER D., Structure sensitivity of selective CO oxidation over precious metal catalysts, Postgraduate, B.ATALIK(Student), 2005

ÜNER D., Artifical photosynthesis: Dye assisted photocatalytic reduction of carbon dioxide over pure and platinum containing titania, Postgraduate, Ö.ÖZCAN(Student), 2005

ÜNER D., Diesel soot oxidation catalyst filter system design, Postgraduate, V.Eyüp(Student), 2005

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

ÜNER D., Diesel soot oxidation catalyst filter sytem design, Postgraduate, V.EYÜP(Student), 2005

ÜNER D., Adsorption calorimetry in supported catalyst characterization: adsorption structure sensitivity on pt(y-Al2o3, Postgraduate, M.Üner(Student), 2004

ÜNER D., Adsorption calorimetry in supported catalyst characterization: Adsorption structure sensitivity on Pt/gamma-AI203, Postgraduate, M.ÜNER(Student), 2004

ÜNER D., Soot oxidation catalysis., Postgraduate, M.KEMAL(Student), 2002

ÜNER D., CO oxidation on alumina supporter Pd-Pt mono- and BI-metallic catalysts : temperature hysteresis.,

Postgraduate, S.Kaya(Student), 2002

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

Postgraduate, S.KAYA(Student), 2002

ÜNER D., Assessment of exhaust emissions from gasoline fueled motor vehicles, Postgraduate, R.GÜLTEKİN(Student), 2001

ÜNER D., Catalytic combustion of diesel soot, Postgraduate, B.DERNAİKA(Student), 2001

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

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

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

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

Üner D., Improvements in adhesion properties of solid propellant rocket liner, Postgraduate, F.Burcu(Student), 1998 Üner D., Studies on photocatalytic reactions: heterogeneous photocatalysis by titaniumdioxide, Postgraduate, S.Özbek(Student), 1998

Üner D., De-nox catalysis via bimetallics, Postgraduate, D.Ernur(Student), 1998

Published journal articles indexed by SCI, SSCI, and AHCI

I. Effects of dead volume and inert sweep gas flow on photocatalytic hydrogen evolution over Pt/TiO2 Can Özcan E., ÜNER D., Yildirim R.

International Journal of Hydrogen Energy, 2024 (SCI-Expanded)

II. Microstructure, resistivity, and shear strength of electrically conductive adhesives made of silvercoated copper powder

Hamrah Z. S., Lashgari V. A., Mohammadi M. H. D., Uner D., Pourabdoli M. MICROELECTRONICS RELIABILITY, vol.127, 2021 (SCI-Expanded)

Books & Book Chapters

I. On the Limits of Photocatalytic Water Splitting

IPEK TORUN B., ÜNER D.

in: Water Chemistry, Dr. Murat Eyvaz, Editor, IntechOpen, pp.1-23, 2019

II. Artificial Photosynthesis from a Chemical Engineering Perspective iPEK B., ÜNER D.

in: Artificial Photosynthesis, Dr Mohammad Najafpour, Editor, Intech, Rijeka, pp.13-36, 2012

III. Artificial Photosynthesis from a Chemical Engineering Perspective iPEK B., ÜNER D.

in: Artificial Photosynthesis, Dr Mohammad Najafpour, Editor, InTech, pp.13-36, 2012

Refereed Congress / Symposium Publications in Proceedings

I. selectivity control through microkinetic analysis of complex catalytic reactions

ÜNER D

5th Anatolian school of catalysis, İzmir, Turkey, 8 - 11 September 2019

II. H2 Storage at Ambient Temperature using Cu(I)-SSZ-39

İpek Torun B., Altiparmak I., Üner D.

4. Uluslararası Hidrojen Teknolojileri Konferansı, Edirne, Turkey, 20 - 23 June 2019

III. In-situ and downstream desulfurization ability of PbO and ZnO during pyrolysis and hydrogenation of a high-sulfur lignite

KANCA A., ÜNER D.

3th International Hydrogen Technologies Congress, 15 - 18 March 2018, pp.53-56

IV. Comparison of Low and High Pd Loadings on CNTs via Supercritical Fluid Deposition as Hydrogen Storage Materials

ERÜNAL E., ULUSAL F., ODABAŞI S., ASLAN M. Y., GÜZEL B., ÜNER D.

14th International Conference on Energy Storage, Adana, Turkey, 25 - 28 April 2018

V. Deposition Pressure and Calcination Effect on Hydrogen Storage Capacity of Palladium Doped Multiwalled Carbon Nanotubes Prepared via Supercritical Fluid Deposition Method

ERÜNAL E., ulusal f., ODABAŞI S., aslan m., GÜZEL B., ÜNER D.

14th International Conference on Energy Storage, 25 - 28 April 2018

VI. Hydrogen Storage Capacity Investigations of Pd Loading Ratio on MW-CNTs Prepared via ScCO2

Deposition Method

ERÜNAL E., ULUSAL F., ODABAŞI S., GÜZEL B., ÜNER D.

3rd International Hydrogen Technologies Congress, Antalya, Turkey, 14 - 18 March 2018, pp.96-98

VII. N'xx Catalyzed methane pyrolysis for H2 generation under concentrated solar irradiation oğulgonen c. g., ÇALIŞAN A., ÜNER D., KINCAL S.

3rd international hydrogen energies conference, Alanya, Turkey, 15 - 18 March 2018

VIII. steam methane reforming in microreactors under concentrated solar irradiation

ÇALIŞAN A., oğulgonen c. g., ÜNER D., KINCAL S.

3rd international hydrogen energies conference, alanya, Turkey, 15 - 18 March 2018

IX. Water splitting through Pb/PbO cycle

oğulgonen c. g., ÇALIŞAN A., ÜNER D., KINCAL S.

3rd international hydrogen energies conference, Alanya, Turkey, 15 - 18 March 2018

X. A low cost continuous H2-CH4 sensor assembly

oğulgonen c. g., ÇALIŞAN A., ÜNER D., KINCAL S.

3rd international hydrogen energies conference, alanya, Turkey, 15 - 18 March 2018

XI. Hyrogen storage capacity investiations of Pd loading ratio on ME-CNTs via Supercritical Fluid deposition metod

ERÜNAL E., ulusal f., ODABAŞI S., GÜZEL B., ÜNER D.

International Hydrogen energy congress, 15 - 18 March 2018, vol.1

XII. Water splitting through Pb/PbO cycle

ÇALIŞAN A., oğulgonen c. g., ÜNER D., KINCAL S.

3rd international hydrogen energies conference, alanya, Turkey, 15 - 18 March 2018

XIII. A Cost Analysis for Ammonia as a Hydrogen Carrier

ASLAN M. Y., AKBAYRAK S., özkar S., ÜNER D.

8th International Advanced Technologies Symposium, Elazığ, Turkey, 19 - 21 October 2017

XIV. The Effect of Oxygen Vacancies on Steam Reforming of Lean Methane by NiAl2O3, CeCoO3, and Sr0.6Ce0.4Fe0.7Co0.3O3

ÇALIŞAN A., ÜNER D.

4th Anatolian School of Catalysis, İzmir, Turkey, 11 - 14 September 2017

XV. The Effect of UV Light on Desorption of Oxygen from TiO2 and 0.5 wt Pt/TiO2

ODABAŞI S., ÜNER D.

4. Anadolu Kataliz Okulu, 11 - 14 September 2017

XVI. Effect of Ru Particle Size on the Behavior of Hydrogen over Ru/SiO2 Catalysts with Various Metal

Loadings

ASLAN M. Y., ÜNER D.

4th Anatolian School of Catalysis, İzmir, Turkey, 11 - 14 September 2017

XVII. H2 Molekülünün Heterojen Yapılı Kütlece 1 Pd/CeO2 Katalizörü Üzerine Oda Sıcaklığında Adsorplanmasının Tezgâh Üstü NMR Spektrometresi ile İncelenmesi

ÜNER D., volkan e.

29. ulusal k'xxmya kongresi, Turkey, 10 - 14 September 2017

XVIII. Effect of particle size and morphology on ZnO nanoparticles for photocatalytic NO oxidation kahraman o., ÜNER D.

4th Anatolian School of Catalysis, 11 - 14 September 2017

XIX. NMR Spectroscopy for catalysis

ÜNER D.

4th Anatolian School of Catalysis, 11 - 14 September 2017

XX. getting to know your catalyst

ÜNER D.

4th Anatolian School of Catalysis, 11 - 14 September 2017

XXI. Influence of Particle Size and Morphology of ZnO nanoparticles on Photocatalytic NO Oxidation Orhun K., ERKOÇ E., ÜNER D.

8th World Congress on Oxidation Catalysis, 3 - 08 September 2017

XXII. Photocatalytic Oxidation of Glycerol in Continuous Mini-Flow Reactor

Akyavaşoğlu Ö., ÜNER D., ERKOÇ E.

8th World Congress on Oxidation Calatlysis, 3 - 08 September 2017

XXIII. Transport limitations of oxygen exchange processes: an experimental study on Pt/Co3O4 ÇALIŞAN A., KINCAL S., ÜNER D.

13th European Congress on Catalysis, Floransa, Italy, 27 - 31 August 2017, pp.532

XXIV. Enhancing the rate of hydrogen and oxygen evolution from CeO2 during solar thermal water splitting: addition of Pd and Al2O3

ÜNER D., kaya d.

EUROPACAT 13th european congress on catalysis, 27 - 31 August 2017

XXV. Photocatalytic activity of the modified coupled semiconductors and its relationship with surface properties.

ÜNER D., khamaneh asl s.

EUROPACAT 13th European Congress on Catalysis, 27 - 31 August 2017

XXVI. photocorrosion of NT within water splitting and dye decolorization reactions

ÜNER D., khamaneh asl s.

EUROPACAT 13th european congress on catalysis, 27 - 31 August 2017

XXVII. 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.

second international hydrogen energies conference, 15 - 18 March 2017

XXVIII. Optimization Approach to Operation Conditions of Solar Thermochemical Water Splitting Process YAVUZYILMAZ E., ÜNER D., KINCAL S.

2nd International Hydrogen Technologies Congress, 15 - 18 March 2017

XXIX. Transport Limitations of Oxygen Exchange in Solar Thermochemical Processes: An Experimental Study on Co304

ÇALIŞAN A., KINCAL S., ÜNER D.

2nd International Hydrogen Technologies Congress, Adana, Turkey, 15 - 18 March 2017, pp.234-236

XXX. Hydrogen Storage Capacity of Palladium Doped Multi Wall Carbon Nanotubes Prepared via Supercritical CO2 Depostion Method

ERÜNAL E., Ulusal F., kaya d., ASLAN M. Y., GÜZEL B., ÜNER D.

2nd International Hydrogen Technologies Congress, Adana, Turkey, 15 - 18 March 2017

XXXI. Hydrogen Storage Capacity of Palladium Doped Multi-Walled Carbon Nanotubes Prepared via SupercriticalCO2 Deposition Method

ERÜNAL E., Ulusal F., ASLAN M. Y., GÜZEL B., ÜNER D.

2nd International Hydrogen Technologies Congress, Turkey, 15 - 18 March 2017

XXXII. ARTIFICIAL PHOTOSYNTHESIS: FROM MOLECULAR RATIONALIZATION TO INDUSTRIAL SCALE CATALYSIS

ÜNER D.

49th Polish annual conference on catalysis, 15 - 17 March 2017

XXXIII. CHEMICAL REACTIVITY IN CONFINED SPACE TIMES

ÜNER D.

8th EMCC Eastern Medditerranean Collaboative Chemical Engineeringt Conference, 26 February - 01 March 2017

XXXIV. Tuncbilek linyitinin kimyasal halka yontemi ile gazlastirmasi

KANCA A., ÇALIŞAN A., ÜNER D.

Ulusal Kimya muhendisligi kongresi, Turkey, 23 - 26 August 2016

XXXV. Stokyometrik olmayan oksitler uzerinde gunes enerjisinden hidrojen uretimi

YAVUZYILMAZ E., KINCAL S., ÜNER D.

ulusal kımya muhendisligi kongresi, Turkey, 23 - 26 August 2016

XXXVI. Ammonia Synthesis Reaction On Ru Nanoparticles

ASLAN M. Y., AKBAYRAK S., özkar S., ÜNER D.

6th national catalysis conference, Turkey, 27 - 30 April 2016

XXXVII. The Role Of Precious Metals On Adsorption Desorption Kinetics Of Oxygen Over Reducible Oxide ÜNER D., kaya d., singh d.

6th National catalysis conference, Turkey, 27 - 30 April 2016

XXXVIII. Catalytic Tar Removal on Nickel loaded Perovskites

ÇAĞLAR B., tabari t., ÜNER D.

6th national catalysis conference, Turkey, 27 - 30 April 2016

XXXIX. Catalytic Role of Pyrite on Hydrodesulfurization of Lignite and Asphaltite

halvaci v., KANCA A., ÜNER D.

6th National Catalysis Conference, Turkey, 27 - 30 April 2016

XL. Benzene Oxidation as an Alternative Method for Assessing Photocatalytic Activity

oymak m. m., tabari t., ÜNER D.

6th national catalysis conference, Turkey, 27 - 30 April 2016

XLI. Material Performance of Co304 CeO2 and Co Ce Mixed Oxide on Oxygen Storage for Solar Thermal Hydrogen Production

ÇALIŞAN A., KAYA D., ÜNER D.

12 EUROPEAN CONGRESS ON CATALYSIS, Kazan, Russia, 30 August - 04 September 2015

XLII. Photocatalytic removal of NO under visible light irradiation over sol gel synthesized PbTiO3 nanoparticles

TABARI T., ÜNER D.

12TH EUROPEAN CONGRESS ON CATALYSIS, Kazan, Russia, 30 August - 04 September 2015

XLIII. Fickian Spillover Models Validation and Parameter Estimation

Dheerendra S., Üner N. B., ÜNER D.

12th EUROPEAN CONGRESS ON CATALYSIS, Kazan, Russia, 30 August - 04 September 2015

XLIV. Estimating and Validating Time Interrupted Behavior of Ammonia Synthesis over Ruthenium Based Catalysts

ÜNER D., ASLAN M. Y., üner n. b.

249th American Chemical Society National Meeting, Denver, United States Of America, 22 - 26 March 2015

XLV. Using nonstoichiometric Co-Pb mixed metal oxides for solar thermal synthesis of hydrogen and CO Calisan A., Kincal S., ÜNER D.

248th National Meeting of the American-Chemical-Society (ACS), San-Francisco, Costa Rica, 10 - 14 August 2014, vol.248

Supported Projects

ÜNER D., ODABAŞI S., YAVUZYILMAZ E., KAHRAMAN O., HALVACI V., ASLAN M. Y., KAYA D., ÇALIŞAN A., Project Supported by Higher Education Institutions, Adsorplanmış moleküülerin NMR spektroskopisi ile incelenmesi, 2017 - 2017

ÜNER D., AKBAYRAK S., ASLAN M. Y., Project Supported by Higher Education Institutions, Rutenyum nanokümelerinin amonyak sentezinde katlizör olarak kullanımını incelenmesi, 2016 - 2016

ÜNER D., ATEŞ C., Project Supported by Higher Education Institutions, Karışık Yapılı Metal Oksitlerde Oksijen Ve Su Adsorpsiyon-Desorpsiyon Özelliklerinin Karakterizasyonu, 2014 - 2015

ÜNER D., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÜNER D., ASLAN M. Y., ATEŞ C., Project Supported by Higher Education Institutions, Ru/SBA-15 ve Kobalt-Oksit Sentezi için Kül Fırın Alımı, 2014 - 2014

ÜNER D., ASLAN M. Y., Project Supported by Higher Education Institutions, Soy metal amonyak sentezi katalizörlerinin hidrojenle zehirlenme mekanizmasının taşma olayları ile ilişkisinin incelenmesi, 2013 - 2013

ÜNER D., Project Supported by Higher Education Institutions, Gazların Katalizör Yüzeyine Adsorplanma Isılarının Mikrokalorimetre Yöntemi İle Tayini, 2012 - 2012

ÜNER D., Project Supported by Higher Education Institutions, Gaz Fazda Benzenin Katalitik Hidrojenlenmesi, Kinetik İncelenmesi Ve Mekanizmanın Aydınlatılması., 2011 - 2011

ÜNER D., Project Supported by Higher Education Institutions, Katalitik Tepkimelerin Gaz Fazında İncelenmesi, 2011 -2011

ÜNER D., Project Supported by Higher Education Institutions, Destekli değerli metal katalizörler üzerine adsorplanmış moleküllerin drıfts analizi karekterizasyonu., 2010 - 2010

Activities in Scientific Journals

APPLIED CATALYSIS B: ENVIRONMENTAL, Committee Member, 2022 - Continues Catalysis Reviews-Science And Engineering, Committee Member, 2016 - Continues Catalysis Communications, Committee Member, 2010 - Continues

Memberships / Tasks in Scientific Organizations

INTERNATIONAL ASSOCIATION FOR CATALYSIS SOCIETIES IACS, Country Representative, 2012 - Continues, France EUROPEAN FEDERATION OF CATALYSIS EFCATS, Country Representative, 2007 - Continues, Netherlands Catalysis Society of Turkey, Board Member, 2006 - Continues, Turkey

Scientific Refereeing

Project Supported by Public Organizations in Other Countries, Spanish Government Ministry of Science and Innovation, Spain, May 2022

Horizon Europe Project, Horizon Europe Project, REA, Belgium, November 2021

H2020 Project, ERC H2020 European Research Council Project, european research council, Belgium, May 2018 H2020 Project, ERC H2020 European Research Council Project, european research council, Belgium, March 2018

Metrics

Publication: 125 Citation (WoS): 1710 Citation (Scopus): 1704 H-Index (WoS): 23 H-Index (Scopus): 23

Congress and Symposium Activities

9th eastern mediterranean conference in Chemical engineering, Invited Speaker, Ankara, Turkey, 2018

Invited Talks

Storage of Solar Energy in Chemical Bonds, Conference, 9th Eastern Medditerranean Chemical Engineering Conference, Turkey, September 2018

Non Academic Experience

University of California Berkeley Orta Doğu Teknik Üniversitesi