

## Prof. TİMUR DOĞU

### Personal Information

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### Advising Theses

- Sezgi N. A., Doğu T., Hydrogen production from methanol steam reforming in a microwave reactor, Postgraduate, S.NIKAZAR(Student), 2019
- Sezgi N. A., Doğu T., Sorption enhanced reforming of ethanol over novel catalysts and microwave reactor application, Postgraduate, M.SARIYER(Student), 2018
- Sezgi N. A., Doğu T., Methanol steam reforming over silica aerogel supported catalyst for hydrogen production, Postgraduate, P.DEĞİRMENCİOĞLU(Student), 2018
- Sezgi N. A., Doğu T., Hydrogen production from formaldehyde, Postgraduate, C.AĞCA(Student), 2016
- DOĞU T., Hydrogen production from ethanol over mesoporous alumina based catalysts and microwave reactor applications, Doctorate, S.GÜNDÜZ(Student), 2014
- DOĞU T., Ethanol steam reforming with zirconia based catalysts, Postgraduate, A.ARSLAN(Student), 2014
- Sezgi N. A., Doğu T., Catalytic pyrolysis of plastic wastes over SAPO-34 catalyst, Postgraduate, T.BURSALI(Student), 2014
- DOĞU T., Etherification of biodiesel by-product glycerol to produce fuel oxygenates, Postgraduate, B.İKİZER(Student), 2014
- DOĞU T., Dimethyl ether from synthesis gas over bifunctional hybrid catalyst mixtures, Postgraduate, A.BAYAT(Student), 2013
- DOĞU T., Bi-functional nanostructured novel catalysts for dimethyl ether synthesis, Postgraduate, G.ÇELİK(Student), 2012
- DOĞU T., Novel bimetallic mesoporous catalysts for hydrogen production through steam reforming of ethanol, Doctorate, C.ŞENER(Student), 2012
- DOĞU T., Zr and silicotungstic acid incorporated silicate structured mesoporous catalysts for dimethyl ether synthesis, Postgraduate, S.ORMAN(Student), 2011
- DOĞU T., Sorption enhanced ethanol reforming over cobalt, nickel incorporated MCM-41 for hydrogen production, Postgraduate, S.GÜNDÜZ(Student), 2011
- SEZGİ N. A., DOĞU T., Dimethyl ether (DME) synthesis using mesoporous SAPO-34 like catalytic materials, Postgraduate, H.DEMİR(Student), 2011
- DOĞU T., Direct synthesis of dimethyl ether (DME) from synthesis gas using novel catalysts, Postgraduate, A.ARINAN(Student), 2010
- SEZGİ N. A., DOĞU T., Synthesis of aluminum incorporated mesoporous catalysts for pyrolysis of polypropylene, Doctorate, Z.OBALI(Student), 2010
- DOĞU T., Nanocomposite nafion and heteropolyacid incorporated mesoporous catalysts for dimethyl ether synthesis from methanol, Postgraduate, A.ÇİFTÇİ(Student), 2009
- DOĞU T., Dimethyl ether synthesis over novel mesoporous catalysts, Postgraduate, K.CEM(Student), 2008
- DOĞU T., Kinetic studies for dimethyl ether and diethyl ether production, Doctorate, D.VARIŞLI(Student), 2007
- DOĞU T., Steam reforming of ethanol for hydrogen production using Cu-MCM41 and Ni-MCM41 type mesoporous catalytic materials, Postgraduate, E.ÖZDOĞAN(Student), 2007
- DOĞU T., Synthesis and characterization of Pd-MCM-TYPE mesoporous nanocomposite materials, Postgraduate, C.ŞENER(Student), 2006
- DOĞU T., Dynamic and steady-state analysis of oxidative dehydrogenation of ethane, Doctorate,

G.KARAMULLAOĞLU(Student), 2005

DOĞU T., Vanadium and molybdenum incorporated MCM-41 catalysts for selective oxidation of ethanol, Doctorate, Y.GÜÇBİLMEZ(Student), 2005

DOĞU T., Synthesis and characterization of Cu-MCM-41 and Ni-MCM-41 type catalytic materials, Postgraduate, A.NALBANT(Student), 2005

DOĞU T., Carbon dioxide removal in steam reforming: Adsorption of Co<sub>2</sub> onto hydrotalcite and activated soda, Postgraduate, B.FIÇICILAR(Student), 2004

DOĞU T., Kinetic studies for the production of tertiary ethers used as gasoline additives, Doctorate, N.BOZ(Student), 2004

DOĞU T., Removal of hydrogen sulfide by regenerable metal oxide sorbents, Postgraduate, D.KARAYILAN(Student), 2004

DOĞU T., Heteropolyacid catalysts for etherification of isoolefins, Postgraduate, Z.OBALI(Student), 2003

DOĞU T., Simultaneous production of tert-amyl alcohol and tert-amyl-ethyl-ether in a reactive distillation column, Postgraduate, D.VARIŞLI(Student), 2003

DOĞU T., Heat effects in catalysts with bimodal pore size distributions, Postgraduate, E.ŞAHİN(Student), 2000

DOĞU T., Oxidative dehydrogenation of ethane, Postgraduate, G.KARAMULLAOĞLU(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

DOĞU T., Adsorption studies for alcohols, iso-olefins and corresponding ethers (Etbe, tame) on amberlyst-15, Postgraduate, E.AYDIN(Student), 1999

DOĞU T., Catalytic cracking of n-decane in the presence of carbon dioxide, Postgraduate, A.RENGİN(Student), 1999

DOĞU T., Kinetic studies for the catalytic oxidative dehydrogenation of isobutane, Doctorate, S.ÖNEN(Student), 1997

DOĞU T., Production of the additives for environmentally benign gasoline, Postgraduate, İ.GÖNDERMEN(Student), 1997

DOĞU T., Production of boron fiber by chemical vapor deposition and its characterization, Postgraduate, A.ERSOY(Student), 1997

DOĞU T., Kinetics of boron fiber production., Doctorate, N.ASLI(Student), 1996

DOĞU T., Thermal cracking kinetics of the heavy paraffins in the presence of carbon dioxide under subcritical and supercritical conditions, Doctorate, G.KARAKAŞ(Student), 1995

ÖNAL I., DOĞU T., Oxidative coupling of methane using superconductor and semiconductor type catalytic materials, Doctorate, Y.ERARSLANOĞLU(Student), 1995

DOĞU T., Kinetics of vapour phase production of ETBE, Postgraduate, F.ÇERSU(Student), 1995

DOĞU T., Kinetics of activated carbon production from almond shell, hazelnut shell and beech wood and characterization of products, Doctorate, S.BALCI(Student), 1992

DOĞU T., Investigation of viscous flow and diffusion in porous solids, Postgraduate, N.KADER(Student), 1992

DOĞU T., The Effect of macro and micropore diffusion resistances on selectivity in multiple reaction system, Postgraduate, M.İLHAN(Student), 1991

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Process intensification methods in steam reforming of ethanol with nickel impregnated mesoporous carbon: Microwave heating and sorption enhanced reforming**  
Sarıyer M., Sezgi N. A., Doğu T.  
International Journal of Hydrogen Energy, vol.67, pp.912-924, 2024 (SCI-Expanded)
- II. **Dimethyl ether from syngas and effect of CO<sub>2</sub> sorption on product distribution over a new bifunctional catalyst pair containing STA@SBA-15**  
ÇELİK ÖZCAN M., PEKMEZCİ KARAMAN B., OKTAR N., DOĞU T.  
FUEL, vol.330, 2022 (SCI-Expanded)
- III. **Heteropolyacid Incorporated Bifunctional Core-Shell Catalysts for Dimethyl Ether Synthesis from Carbon Dioxide/Syngas**  
PEKMEZCİ KARAMAN B., OKTAR N., DOĞU T.

CATALYSTS, vol.12, no.10, 2022 (SCI-Expanded)

- IV. **Effects of synthesis route on the performance of mesoporous ceria-alumina and ceria-zirconia-alumina supported nickel catalysts in steam and autothermal reforming of diesel**  
Bozda A. A., Sezgi N. A., Doğu T.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.7, pp.4568-4583, 2022 (SCI-Expanded)
- V. **Bifunctional Silicotungstic Acid and Tungstophosphoric Acid Impregnated Cu-Zn-Al & Cu-Zn-Zr Catalysts for Dimethyl Ether Synthesis from Syngas**  
Karaman B. P., OKTAR N., DOĞU G., DOĞU T.  
CATALYSIS LETTERS, vol.150, no.9, pp.2744-2761, 2020 (SCI-Expanded)
- VI. **Performance comparison of microwave and conventionally heated reactors for sorption enhanced reforming of ethanol over Ni impregnated SBA-15**  
Sariyer M., Bozdag A. A., Sezgi N. A., Doğu T.  
CHEMICAL ENGINEERING JOURNAL, vol.377, 2019 (SCI-Expanded)
- VII. **Effect of synthesis media pH and gel separation technique on properties of copper incorporated SBA-15 catalyst**  
Akti F., Balci S., DOĞU T.  
MATERIALS CHEMISTRY AND PHYSICS, vol.236, 2019 (SCI-Expanded)
- VIII. **Fifty Years of Moment Technique for Dynamic Analysis of Chemical Reactor Parameters**  
DOĞU G., DOĞU T.  
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.17, no.5, 2019 (SCI-Expanded)
- IX. **Catalytic performances of Ni and Cu impregnated MCM-41 and Zr-MCM-41 for hydrogen production through steam reforming of acetic acid**  
Cakiryilmaz N., ARBAĞ H., OKTAR N., DOĞU G., DOĞU T.  
CATALYSIS TODAY, vol.323, pp.191-199, 2019 (SCI-Expanded)
- X. **Role of synthesis media on properties of tin and copper incorporated SBA-15 catalysts and their activity in selective oxidation of ethanol**  
Akti F., BALCI F. S., DOĞU T.  
MATERIALS CHEMISTRY AND PHYSICS, vol.223, pp.249-259, 2019 (SCI-Expanded)
- XI. **Effect of W incorporation on the product distribution in steam reforming of bio-oil derived acetic acid over Ni based Zr-SBA-15 catalyst**  
Cakiryilmaz N., ARBAĞ H., OKTAR N., DOĞU G., DOĞU T.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.7, pp.3629-3642, 2018 (SCI-Expanded)
- XII. **Hydrogen production over molybdenum loaded mesoporous carbon catalysts in microwave heated reactor system**  
Guler M., DOĞU T., VARIŞLI D.  
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.219, pp.173-182, 2017 (SCI-Expanded)
- XIII. **Performance comparison of mesoporous alumina supported Cu & Ni based catalysts in acetic acid reforming**  
Karaman B. P., Cakiryilmaz N., ARBAĞ H., OKTAR N., DOĞU G., DOĞU T.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.42, pp.26257-26269, 2017 (SCI-Expanded)
- XIV. **Microwave-assisted ammonia decomposition reaction over iron incorporated mesoporous carbon catalysts**  
VARIŞLI D., Korkusuz C., DOĞU T.  
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.201, pp.370-380, 2017 (SCI-Expanded)
- XV. **Enhancement of catalytic performance of Ni based mesoporous alumina by Co incorporation in conversion of biogas to synthesis gas**  
ARBAĞ H., YAŞYERLİ S., YAŞYERLİ N., DOĞU G., DOĞU T.  
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.198, pp.254-265, 2016 (SCI-Expanded)
- XVI. **Optimization of CO<sub>2</sub>/CO Ratio and Temperature for Dimethyl Ether Synthesis from Syngas over a New Bifunctional Catalyst Pair Containing Heteropolyacid Impregnated Mesoporous Alumina**  
Bayat A., DOĞU T.

- INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.55, no.44, pp.11431-11439, 2016 (SCI-Expanded)
- XVII. **Effect of calcination/reduction temperature of Ni impregnated CeO<sub>2</sub>-ZrO<sub>2</sub> catalysts on hydrogen yield and coke minimization in low temperature reforming of ethanol**  
ARSLAN KELAM A., DOĞU T.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.38, pp.16752-16761, 2016 (SCI-Expanded)
- XVIII. **Contribution of Pd Membrane to Dehydrogenation of Isobutane Over a New Mesoporous Cr/MCM-41 Catalyst**  
ÇETİNYOKUŞ S., DOĞAN M., DOĞU T.  
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.14, no.3, pp.727-736, 2016 (SCI-Expanded)
- XIX. **Etherification of glycerol with C-4 and C-5 reactive olefins**  
Ikizer B., OKTAR N., DOĞU T.  
FUEL PROCESSING TECHNOLOGY, vol.138, pp.570-577, 2015 (SCI-Expanded)
- XX. **Hydrogen by steam reforming of ethanol over Co-Mg incorporated novel mesoporous alumina catalysts in tubular and microwave reactors**  
Gunduz S., DOĞU T.  
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.168, pp.497-508, 2015 (SCI-Expanded)
- XXI. **Coke Minimization during Conversion of Biogas to Syngas by Bimetallic Tungsten-Nickel Incorporated Mesoporous Alumina Synthesized by the One-Pot Route**  
ARBAĞ H., YAŞYERLİ S., YAŞYERLİ N., DOĞU G., DOĞU T., Crnivec I. G. O., Pintar A.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.54, no.8, pp.2290-2301, 2015 (SCI-Expanded)
- XXII. **Effect of synthesis route of mesoporous zirconia based Ni catalysts on coke minimization in conversion of biogas to synthesis gas**  
Mustu H., YAŞYERLİ S., YAŞYERLİ N., DOĞU G., DOĞU T., Djinovic P., Pintar A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.8, pp.3217-3228, 2015 (SCI-Expanded)
- XXIII. **Steam reforming of ethanol with zirconia incorporated mesoporous silicate supported catalysts**  
ARSLAN KELAM A., Gunduz S., DOĞU T.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.39, no.32, pp.18264-18272, 2014 (SCI-Expanded)
- XXIV. **Performance of silicotungstic acid incorporated mesoporous catalyst in direct synthesis of dimethyl ether from syngas in the presence and absence of CO<sub>2</sub>**  
Celik G., Arinan A., Bayat A., Ozbelge H. O., Doğu T., Varışlı D.  
Topics in Catalysis, vol.56, pp.1764-1774, 2013 (SCI-Expanded)
- XXV. **Activity Comparison of Different Solid Acid Catalysts in Etherification of Glycerol with tert-Butyl Alcohol in Flow and Batch Reactors**  
Ozbay N., OKTAR N., DOĞU G., DOĞU T.  
TOPICS IN CATALYSIS, vol.56, pp.1790-1803, 2013 (SCI-Expanded)
- XXVI. **Cr Incorporated MCM-41 Type Catalysts for Isobutane Dehydrogenation and Deactivation Mechanism**  
Kilicarslan S., DOĞAN M., DOĞU T.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.52, no.10, pp.3674-3682, 2013 (SCI-Expanded)
- XXVII. **Dimethyl ether, diethyl ether & ethylene from alcohols over tungstophosphoric acid based mesoporous catalysts**  
Ciftci A., Varışlı D., Tokay K. C., Sezgi N. A., Doğu T.  
CHEMICAL ENGINEERING JOURNAL, vol.207, pp.85-93, 2012 (SCI-Expanded)
- XXVIII. **Catalytic degradation of polypropylene over alumina loaded mesoporous catalysts**  
Obali Z., SEZGİ N. A., DOĞU T.  
CHEMICAL ENGINEERING JOURNAL, vol.207, pp.421-425, 2012 (SCI-Expanded)
- XXIX. **Synthesis of TPA impregnated SBA-15 catalysts and their performance in polyethylene degradation reaction**  
Aydemir B., SEZGİ N. A., DOĞU T.  
AIChE JOURNAL, vol.58, no.8, pp.2466-2472, 2012 (SCI-Expanded)

- XXX. **Effects of Sorption Enhancement and Isobutene Formation on Etherification of Glycerol with tert-Butyl Alcohol in a Flow Reactor**  
Ozbay N., OKTAR N., DOĞU G., DOĞU T.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.51, no.26, pp.8788-8795, 2012 (SCI-Expanded)
- XXXI. **Sorption-Enhanced Reforming of Ethanol over Ni- and Co-Incorporated MCM-41 Type Catalysts**  
Gunduz S., DOĞU T.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.51, no.26, pp.8796-8805, 2012 (SCI-Expanded)
- XXXII. **Gas phase reaction kinetics in boron fibre production**  
Firat F., SEZGİ N. A., Ozbelge H. O., DOĞU T.  
AIChE JOURNAL, vol.58, no.5, pp.1562-1569, 2012 (SCI-Expanded)
- XXXIII. **Dimethyl ether synthesis over alumina based catalysts**  
Tokay K. C., DOĞU T., DOĞU G.  
CHEMICAL ENGINEERING JOURNAL, vol.184, pp.278-285, 2012 (SCI-Expanded)
- XXXIV. **Structural variations of MCF and SBA-15-like mesoporous materials as a result of differences in synthesis solution pH**  
Aktas O., YAŞYERLİ S., DOĞU G., DOĞU T.  
MATERIALS CHEMISTRY AND PHYSICS, vol.131, pp.151-159, 2011 (SCI-Expanded)
- XXXV. **The synthesis and characterization of aluminum loaded SBA-type materials as catalyst for polypropylene degradation reaction**  
Obali Z., SEZGİ N. A., DOĞU T.  
CHEMICAL ENGINEERING JOURNAL, vol.176, pp.202-210, 2011 (SCI-Expanded)
- XXXVI. **Synthesis and characterization of V, Mo and Nb incorporated micro-mesoporous MCM-41 materials**  
Solmaz A., BALCI F. S., DOĞU T.  
MATERIALS CHEMISTRY AND PHYSICS, vol.125, pp.148-155, 2011 (SCI-Expanded)
- XXXVII. **Nafion-Incorporated Silicate Structured Nanocomposite Mesoporous Catalysts for Dimethyl Ether Synthesis**  
Ciftci A., SEZGİ N. A., DOĞU T.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.49, no.15, pp.6753-6762, 2010 (SCI-Expanded)
- XXXVIII. **Effect of Synthesis Conditions on the Structure and Catalytic Performance of V- and Ce-Incorporated SBA-15-like Materials in Propane Selective Oxidation**  
Aktas O., YAŞYERLİ S., DOĞU G., DOĞU T.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.49, no.15, pp.6790-6802, 2010 (SCI-Expanded)
- XXXIX. **Dimethyl Ether Synthesis over Novel Silicotungstic Acid Incorporated Nanostructured Catalysts**  
Ciftci A., VARIŞLI D., DOĞU T.  
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.8, 2010 (SCI-Expanded)
- XL. **Conversion of Biodiesel By-Product Glycerol to Fuel Ethers over Different Solid Acid Catalysts**  
Ozbay N., OKTAR N., DOĞU G., DOĞU T.  
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.8, 2010 (SCI-Expanded)
- XLI. **Petrochemicals from ethanol over a W-Si-based nanocomposite bidisperse solid acid catalyst**  
Varisli D., DOĞU T., DOĞU G.  
CHEMICAL ENGINEERING SCIENCE, vol.65, no.1, pp.153-159, 2010 (SCI-Expanded)
- XLII. **Novel Mesoporous Nanocomposite WO<sub>x</sub>-Silicate Acidic Catalysts: Ethylene and Diethylether from Ethanol**  
Varisli D., DOĞU T., DOĞU G.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.48, no.21, pp.9394-9401, 2009 (SCI-Expanded)
- XLIII. **Methanol dehydration reaction to produce clean diesel alternative dimethylether over mesoporous aluminosilicate-based catalysts**  
VARIŞLI D., Tokay K. C., Ciftci A., DOĞU T., DOĞU T.  
TURKISH JOURNAL OF CHEMISTRY, vol.33, no.3, pp.355-366, 2009 (SCI-Expanded)
- XLIV. **Mechanism Studies on CVD of Boron Carbide from a Gas Mixture of BCl<sub>3</sub>, CH<sub>4</sub>, and H<sub>2</sub> in a Dual Impinging-jet Reactor**

- Karaman M., SEZGİ N. A., DOĞU T., Ozbelge H. O.  
AICHE JOURNAL, vol.55, no.3, pp.701-709, 2009 (SCI-Expanded)
- XLV. **Activity Comparison of MCM-41 and V-MCM-4 Catalysts for Ethanol Selective Oxidation and DRIFTS Analysis**  
Gucbilmez Y., DOĞU T., BALCI F. S.  
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.7, 2009 (SCI-Expanded)
- XLVI. **Preface Somer Symposium Series I**  
DOĞU T., Ozbelge O.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.196, pp.1-2, 2009 (SCI-Expanded)
- XLVII. **Performance of Acidic MCM-Like Aluminosilicate Catalysts in Pyrolysis of Polypropylene**  
Obali Z., SEZGİ N. A., DOĞU T.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.196, pp.116-130, 2009 (SCI-Expanded)
- XLVIII. **Dynamic analysis of sorption of Methylene Blue dye on granular and powdered activated carbon**  
YENER J., KOPAÇ T., DOĞU G., DOĞU T.  
CHEMICAL ENGINEERING JOURNAL, vol.144, no.3, pp.400-406, 2008 (SCI-Expanded)
- XLIX. **Silicotungstic acid impregnated MCM-41-like mesoporous solid acid catalysts for dehydration of ethanol**  
Varisli D., DOĞU T., DOĞU G.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.47, no.12, pp.4071-4076, 2008 (SCI-Expanded)
- L. **Activated carbon-tungstophosphoric acid catalysts for the synthesis of tert-amyl ethyl ether (TAEE)**  
Obali Z., DOĞU T.  
CHEMICAL ENGINEERING JOURNAL, vol.138, pp.548-555, 2008 (SCI-Expanded)
- LI. **Effect of thermal treatments and palladium loading on hydrogen sorption characteristics of single-walled carbon nanotubes**  
KOCABAŞ S., KOPAÇ T., DOĞU G., DOĞU T.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.33, no.6, pp.1693-1699, 2008 (SCI-Expanded)
- LII. **Ni and Cu incorporated mesoporous nanocomposite catalytic materials**  
Nalbant A., DOĞU T., Balci S.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.8, no.2, pp.549-556, 2008 (SCI-Expanded)
- LIII. **Dynamic and steady state analysis of low temperature ethane oxidative dehydrogenation over chromia and chromia-vanadia catalysts**  
Karamullaoglu G., DOĞU T.  
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.5, 2007 (SCI-Expanded)
- LIV. **Oxidative dehydrogenation of ethane over chromium-vanadium mixed oxide and chromium oxide catalysts**  
Karamullaoglu G., Dogu T.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.46, no.22, pp.7079-7086, 2007 (SCI-Expanded)
- LV. **Ethylene and diethyl-ether production by dehydration reaction of ethanol over different heteropolyacid catalysts**  
Varisli D., Dogu T., Dogu G.  
CHEMICAL ENGINEERING SCIENCE, vol.62, pp.5349-5352, 2007 (SCI-Expanded)
- LVI. **Ni-MCM-41 type mesoporous catalysts synthesized by one-pot hydrothermal procedure for steam reforming of ethanol**  
Ozdogan E., DOĞU T., DOĞU G.  
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.5, 2007 (SCI-Expanded)
- LVII. **Direct hydrothermal synthesis of palladium-incorporated silicate-structured mesoporous catalysts**  
Sener C., DOĞU T., Dogu G.  
TURKISH JOURNAL OF CHEMISTRY, vol.31, no.5, pp.473-478, 2007 (SCI-Expanded)
- LVIII. **Alcohols as alternatives to petroleum for environmentally clean fuels and petrochemicals**  
DOĞU T., Varisli D.  
TURKISH JOURNAL OF CHEMISTRY, vol.31, no.5, pp.551-567, 2007 (SCI-Expanded)

- LIX. **Kinetic investigation of chemical vapor deposition of B<sub>4</sub>C on tungsten substrate**  
Karaman M., Sezgi N. A., Dogu T., Ozbelge H. O.  
AICHE JOURNAL, vol.52, no.12, pp.4161-4166, 2006 (SCI-Expanded)
- LX. **Selective oxidation of H<sub>2</sub>S to elemental sulfur over Ce-V mixed oxide and CeO<sub>2</sub> catalysts prepared by the complexation technique**  
Yasyerli S., Dogu G., Dogu T.  
CATALYSIS TODAY, vol.117, pp.271-278, 2006 (SCI-Expanded)
- LXI. **Effects of synthesis conditions on the structure of Pd incorporated MCM-41 type mesoporous nanocomposite catalytic materials with high Pd/Si ratios**  
Sener C., Dogu T., Dogu G.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.94, pp.89-98, 2006 (SCI-Expanded)
- LXII. **Breakthrough analysis for CO<sub>2</sub> removal by activated hydrotalcite and soda ash**  
Ficicilar B., Dogu T.  
CATALYSIS TODAY, vol.115, pp.274-278, 2006 (SCI-Expanded)
- LXIII. **Ethylene and acetaldehyde production by selective oxidation of ethanol using mesoporous V-MCM-41 catalysts**  
Gucbilmez Y., Dogu T., Balci S.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.45, no.10, pp.3496-3502, 2006 (SCI-Expanded)
- LXIV. **Batch adsorber rate analysis of Methylene Blue on Amberlite and clinoptilolite**  
Yener J., Kopac T., Dogu G., Dogu T.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.41, no.9, pp.1857-1879, 2006 (SCI-Expanded)
- LXV. **Diffusion Resistances and Contribution of Surface Diffusion in TAME and TAEE Production Using Amberlyst-15**  
DOĞU T., AYDIN GÖL E., Boz N., MÜRTEZAOĞLU K., DOĞU G.  
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.1, 2003 (SCI-Expanded)
- LXVI. **Reactivity of CO<sub>2</sub> during thermal cracking of heavy paraffins under supercritical conditions**  
Karakas G., Dogu T., Somer T.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.36, no.11, pp.4445-4451, 1997 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **ZrO<sub>2</sub> modified CuO-ZnO incorporated mesoporous catalysts for synthesis gas conversion**  
Arinan A., VARIŞLI D., DOĞU T.  
19th International Congress of Chemical and Process Engineering, CHISA 2010 and 7th European Congress of Chemical Engineering, ECCE-7, Prague, Czech Republic, 28 August - 01 September 2010
- II. **Mechanism and characterization studies on boron carbides deposited by chemical vapor deposition technique**  
Karaman M., Özbelge H. Ö., Sezgi N. A., Doğu T.  
Symposium on Materials and Technologies for Direct Thermal-to-Electric Energy Conversion held at the 2005 MRS Fall Meeting, Massachusetts, United States Of America, 28 November - 02 December 2005, vol.886, pp.455-456

### Supported Projects

- DOĞU T., Project Supported by Higher Education Institutions, Sentez Gazı Üretimi İçin Etanolün Karışık Oksit Katalizörlerle Buharlı Reformlama Reaksiyonu, 2013 - 2013
- DOĞU T., İkizer B., Project Supported by Higher Education Institutions, Biyodizel Yan Ürünü Gliserolün Isobüten ile Eterifikasyonuna Yönelik Asidik Katalizör Geliştirilmesi, 2013 - 2013
- DOĞU T., Project Supported by Higher Education Institutions, Adsorpsiyon Destekli Etanol Reformlama Reaksiyonu İle Hidrojen Üretimi, 2011 - 2013

DOĐU T., Project Supported by Higher Education Institutions, Mezogözenekli, Alumina Esash Ve Nanoyapılı Katalizörler İle Dimetil Eter Sentezi, 2011 - 2011

DOĐU T., Project Supported by Higher Education Institutions, Mikrodalga Enerjisi Altında Yeni Mezogözenekli Katalizörler Yardımıyla Buhar Reform Reaksiyonu Kullanarak Etanolden Sentez Gazı Üretimi, 2010 - 2010

DOĐU T., Project Supported by Higher Education Institutions, Karbondioksit Ve Metanolden Doğrudan Dimetil Karbonat Sentezi, 2010 - 2010

DOĐU T., Project Supported by Higher Education Institutions, Metanol Dehidrasyonu İle Dimetil Eter (dme) Sentezi, 2008 - 2008

DOĐU T., Project Supported by Higher Education Institutions, Kömür Bazlı Sentez Gazlardan Alternatif Dizel Yakıt Üretimi, 2008 - 2008

## **Metrics**

Publication: 74  
Citation (WoS): 1911  
Citation (Scopus): 1520  
H-Index (WoS): 29  
H-Index (Scopus): 24

## **Non Academic Experience**

Orta Dođu Teknik Üniversitesi  
Ankara Üniversitesi  
Orta Dođu Teknik Üniversitesi  
McGill Üniversitesi Kanada