

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, Post Graduate, S.NIKAZAR(Student), 2019
- Sezgi N. A. , Doğu T., Sorption enhanced reforming of ethanol over novel catalysts and microwave reactor application, Post Graduate, M.SARIYER(Student), 2018
- Sezgi N. A. , Doğu T., Methanol steam reforming over silica aerogel supported catalyst for hydrogen production, Post Graduate, P.DEĞİRMENCİOĞLU(Student), 2018
- Sezgi N. A. , Doğu T., Hydrogen production from formaldehyde, Post Graduate, 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, Post Graduate, A.ARSLAN(Student), 2014
- Sezgi N. A. , Doğu T., Catalytic pyrolysis of plastic wastes over SAPO-34 catalyst, Post Graduate, T.BURSALI(Student), 2014
- DOĞU T., Etherification of biodiesel by-product glycerol to produce fuel oxygenates, Post Graduate, B.İKİZER(Student), 2014
- DOĞU T., Dimethyl ether from synthesis gas over bifunctional hybrid catalyst mixtures, Post Graduate, A.BAYAT(Student), 2013
- DOĞU T., Bi-functional nanostructured novel catalysts for dimethyl ether synthesis, Post Graduate, 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, Post Graduate, S.ORMAN(Student), 2011
- DOĞU T., Sorption enhanced ethanol reforming over cobalt, nickel incorporated MCM-41 for hydrogen production, Post Graduate, S.GÜNDÜZ(Student), 2011
- SEZGİ N. A. , DOĞU T., Dimethyl ether (DME) synthesis using mesoporous SAPO-34 like catalytic materials, Post Graduate, H.DEMİR(Student), 2011
- DOĞU T., Direct synthesis of dimethyl ether (DME) from synthesis gas using novel catalysts, Post Graduate, 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, Post Graduate, A.ÇİFTÇİ(Student), 2009
- DOĞU T., Dimethyl ether synthesis over novel mesoporous catalysts, Post Graduate, 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-MCM-41 and Ni-MCM-41 type mesoporous catalytic materials, Post Graduate, E.ÖZDOĞAN(Student), 2007
- DOĞU T., Synthesis and characterization of Pd-MCM-TYPE mesoporous nanocomposite materials, Post Graduate, 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, Post Graduate, A.NALBANT(Student), 2005

DOĞU T., Carbon dioxide removal in steam reforming: Adsorption of Co₂ onto hydrotalcite and activated soda, Post Graduate, 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, Post Graduate, D.KARAYILAN(Student), 2004

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

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

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

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

DOĞU T., Catalytic cracking of n-decane in the presence of carbon dioxide, Post Graduate, 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, Post Graduate, İ.GÖNDERMEN(Student), 1997

DOĞU T., Production of boron fiber by chemical vapor deposition and its characterization, Post Graduate, 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, Post Graduate, 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, Post Graduate, N.KADER(Student), 1992

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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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, pp.2744-2761, 2020 (Journal Indexed in SCI)
- II. **Performance comparison of microwave and conventionally heated reactors for sorption enhanced reforming of ethanol over Ni impregnated SBA-15**
Sarıyer M., Bozdag A. A. , Sezgi N. A. , Doğu T.
CHEMICAL ENGINEERING JOURNAL, vol.377, 2019 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)

- IV. **Fifty Years of Moment Technique for Dynamic Analysis of Chemical Reactor Parameters**
DOĞU G., DOĞU T.
INTERNATIONAL JOURNAL OF CHEMICAL REACTOR ENGINEERING, vol.17, 2019 (Journal Indexed in SCI)
- V. **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.
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- VI. **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 (Journal Indexed in SCI)
- VII. **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.
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- VIII. **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 (Journal Indexed in SCI)
- IX. **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, pp.26257-26269, 2017 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **Optimization of CO₂/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, pp.11431-11439, 2016 (Journal Indexed in SCI)
- XIII. **Effect of calcination/reduction temperature of Ni impregnated CeO₂-ZrO₂ 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, pp.16752-16761, 2016 (Journal Indexed in SCI)
- XIV. **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, pp.727-736, 2016 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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, pp.2290-2301, 2015 (Journal Indexed in SCI)
- XVIII. **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.
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- XIX. **Steam reforming of ethanol with zirconia incorporated mesoporous silicate supported catalysts**
ARSLAN KELAM A., Gunduz S., DOĞU T.
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- XX. **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 (Journal Indexed in SCI)
- XXI. **Performance of silicotungstic acid incorporated mesoporous catalyst in direct synthesis of dimethyl ether from syngas in the presence and absence of CO₂**
Celik G., Arinan A., Bayat A., Ozbelge H. O. , DOĞU T., VARIŞLI D.
Topics in Catalysis, vol.56, pp.1764-1774, 2013 (Journal Indexed in SCI Expanded)
- XXII. **Cr Incorporated MCM-41 Type Catalysts for Isobutane Dehydrogenation and Deactivation Mechanism**
Kilicarslan S., DOĞAN M., DOĞU T.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.52, pp.3674-3682, 2013 (Journal Indexed in SCI)
- XXIII. **Dimethyl ether, diethyl ether & ethylene from alcohols over tungstophosphoric acid based mesoporous catalysts**
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CHEMICAL ENGINEERING JOURNAL, vol.207, pp.85-93, 2012 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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, pp.2466-2472, 2012 (Journal Indexed in SCI)
- XXVI. **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, pp.8788-8795, 2012 (Journal Indexed in SCI)
- XXVII. **Sorption-Enhanced Reforming of Ethanol over Ni- and Co-Incorporated MCM-41 Type Catalysts**
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- XXVIII. **Gas phase reaction kinetics in boron fibre production**
Firat F., SEZGİ N. A. , Ozbelge H. O. , DOĞU T.
AICHE JOURNAL, vol.58, pp.1562-1569, 2012 (Journal Indexed in SCI)
- XXIX. **Dimethyl ether synthesis over alumina based catalysts**
Tokay K. C. , DOĞU T., DOĞU G.
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- XXX. **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 (Journal Indexed in SCI)
- XXXI. **The synthesis and characterization of aluminum loaded SBA-type materials as catalyst for polypropylene degradation reaction**
Obali Z., SEZGİ N. A. , DOĞU T.
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- XXXII. **Synthesis and characterization of V, Mo and Nb incorporated micro-mesoporous MCM-41 materials**
Solmaz A., BALCI F. S. , DOĞU T.
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- XXXIII. **Effect of Synthesis Conditions on the Structure and Catalytic Performance of V- and Ce-Incorporated SBA-15-like Materials in Propane Selective Oxidation**
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- XXXIV. **Nafion-Incorporated Silicate Structured Nanocomposite Mesoporous Catalysts for Dimethyl Ether Synthesis**
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- XXXV. **Dimethyl Ether Synthesis over Novel Silicotungstic Acid Incorporated Nanostructured Catalysts**
Ciftci A., VARIŞLI D., DOĞU T.
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- XXXVI. **Petrochemicals from ethanol over a W-Si-based nanocomposite bidisperse solid acid catalyst**
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- XXXVII. **Conversion of Biodiesel By-Product Glycerol to Fuel Ethers over Different Solid Acid Catalysts**
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- XXXVIII. **Novel Mesoporous Nanocomposite WO_x-Silicate Acidic Catalysts: Ethylene and Diethylether from Ethanol**
Varisli D., DOĞU T., DOĞU G.
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- XXXIX. **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, pp.355-366, 2009 (Journal Indexed in SCI)
- XL. **Mechanism Studies on CVD of Boron Carbide from a Gas Mixture of BCl₃, CH₄, and H₂ in a Dual Impinging-jet Reactor**
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- XLI. **Activity Comparison of MCM-41 and V-MCM-4 Catalysts for Ethanol Selective Oxidation and DRIFTS Analysis**
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- XLII. **Performance of Acidic MCM-Like Aluminosilicate Catalysts in Pyrolysis of Polypropylene**
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- XLIII. **Preface Somer Symposium Series I**
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- XLIV. **Dynamic analysis of sorption of Methylene Blue dye on granular and powdered activated carbon**
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- XLV. **Silicotungstic acid impregnated MCM-41-like mesoporous solid acid catalysts for dehydration of**

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- XLVI. **Activated carbon-tungstophosphoric acid catalysts for the synthesis of tert-amyl ethyl ether (TAEE)**
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- XLVII. **Effect of thermal treatments and palladium loading on hydrogen sorption characteristics of single-walled carbon nanotubes**
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- XLVIII. **Ni and Cu incorporated mesoporous nanocomposite catalytic materials**
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- XLIX. **Dynamic and steady state analysis of low temperature ethane oxidative dehydrogenation over chromia and chromia-vanadia catalysts**
Karamullaoglu G., DOĞU T.
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- L. **Oxidative dehydrogenation of ethane over chromium-vanadium mixed oxide and chromium oxide catalysts**
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- LI. **Ethylene and diethyl-ether production by dehydration reaction of ethanol over different heteropolyacid catalysts**
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- LII. **Ni-MCM-41 type mesoporous catalysts synthesized by one-pot hydrothermal procedure for steam reforming of ethanol**
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- LIII. **Direct hydrothermal synthesis of palladium-incorporated silicate-structured mesoporous catalysts**
Sener C., DOĞU T., Dogu G.
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- LIV. **Alcohols as alternatives to petroleum for environmentally clean fuels and petrochemicals**
DOĞU T., Varisli D.
TURKISH JOURNAL OF CHEMISTRY, vol.31, pp.551-567, 2007 (Journal Indexed in SCI)
- LV. **Kinetic investigation of chemical vapor deposition of B4C on tungsten substrate**
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- LVI. **Selective oxidation of H₂S to elemental sulfur over Ce-V mixed oxide and CeO₂ catalysts prepared by the complexation technique**
Yasyerli S., Dogu G., Dogu T.
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- LVII. **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.
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- LVIII. **Breakthrough analysis for CO₂ removal by activated hydrotalcite and soda ash**
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- LIX. **Ethylene and acetaldehyde production by selective oxidation of ethanol using mesoporous V-MCM-41 catalysts**

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LX. Batch adsorber rate analysis of Methylene Blue on Amberlite and clinoptilolite

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SEPARATION SCIENCE AND TECHNOLOGY, vol.41, pp.1857-1879, 2006 (Journal Indexed in SCI)

LXI. Diffusion Resistances and Contribution of Surface Diffusion in TAME and TAAE Production Using Amberlyst-15

DOĞU T., AYDIN GÖL E., Boz N., MÜRTEZAOĞLU K., DOĞU G.

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LXII. Reactivity of CO₂ during thermal cracking of heavy paraffins under supercritical conditions

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Refereed Congress / Symposium Publications in Proceedings

I. 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

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

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

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Citations

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