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Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 2003 - 2008

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 1999 - 2003

Undergraduate, Cukurova University, Mühendislik-Mimarlık Fakültesi , Makina Mühendisliği , Turkey 1995 - 1999

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Vortex control behind side-by-side cylinders in shallow waters, Cukurova University, Fen Bilimleri, Makina Mühendisliği, 2008

Postgraduate, Turbulent wakes generated by side-by side cylinders in shallow-water, Cukurova University, Fen Bilimleri, Makina Mühendisliği, 2003

Research Areas

Mechanical Engineering, Energy, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Cukurova University, Mühendislik Fakültesi, Otomotiv Mühendisliği, 2018 - Continues

Assistant Professor, Cukurova University, Mühendislik Fakültesi, Otomotiv Mühendisliği, 2018 - 2018

Assistant Professor, Cukurova University, Mühendislik Fakültesi, Otomotiv Mühendisliği, 2015 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- Numerical investigation of crash behavior of vehicle side door beams under high-speed pole side impacts**

Akar M. A., Kumlu U., Yıldızhan Ş.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART D: JOURNAL OF AUTOMOBILE ENGINEERING, vol.237, no.14, pp.3408-3418, 2023 (SCI-Expanded)

- II. **Investigation on Flow Characteristics of Generic Car Body with Different Boundary Conditions**
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- III. **Combined effects of hydrogen and TiO₂ nanoparticle additive on terebinth oil biodiesel operated diesel engine**
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- IV. **Investigation of low-temperature performances of hybrid catalysts with different chain length OHC reductants.**
Keskin Z., Akar M. A.
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- V. **Variation of spark plug type and spark gap with hydrogen and methanol added gasoline fuel: Performance characteristics**
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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.50, pp.26513-26521, 2020 (SCI-Expanded)
- VI. **Hydrogen enriched waste oil biodiesel usage in compression ignition engine**
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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.38, pp.18046-18052, 2018 (SCI-Expanded)
- VII. **Recent studies on hydrogen usage in Wankel SI engine**
ÖZCANLI M., BAŞ O., AKAR M. A., YILDIZHAN Ş., SERİN H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.38, pp.18037-18045, 2018 (SCI-Expanded)
- VIII. **Investigation the Fuel Properties of Apricot Kernel Biodiesel and Diesel-Biodiesel Fuel Blends**
ÖZGÜR C., YAKARYILMAZ A. C., TOSUN E., AKAR M. A., ÖZGÜR T.
JOURNAL OF BIOTECHNOLOGY, vol.208, pp.30, 2018 (SCI-Expanded)
- IX. **Using HHO (Hydroxy) and hydrogen enriched castor oil biodiesel in compression ignition engine**
ÖZCANLI M., AKAR M. A., Calik A., SERİN H.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.36, pp.23366-23372, 2017 (SCI-Expanded)
- X. **Vortex shedding control on a bare cylinder using hexagonal perforated outer cylinder**
AKAR M. A., Kucuk M.
CANADIAN JOURNAL OF PHYSICS, vol.95, no.1, pp.69-84, 2017 (SCI-Expanded)
- XI. **Flow behavior downstream of two side-by-side circular cylinders in shallow water**
AKAR M. A., Oguz B., AKILLI H., ŞAHİN B.
CANADIAN JOURNAL OF PHYSICS, vol.94, no.10, pp.975-981, 2016 (SCI-Expanded)
- XII. **Performance and emission characteristics of compression ignition engine operating with false flax biodiesel and butanol blends**
AKAR M. A.
ADVANCES IN MECHANICAL ENGINEERING, vol.8, no.2, 2016 (SCI-Expanded)
- XIII. **The Influence of Diesel Fuel-biodiesel-ethanol-butanol Blends on the Performance and Emission Characteristics of a Diesel Engine**
Keskin A., YAŞAR A. N., Resitoglu I., Akar M. A., Sugoza I.
ENERGY SOURCES PART A-RECOVERY UTILIZATION AND ENVIRONMENTAL EFFECTS, vol.35, no.19, pp.1873-1881, 2013 (SCI-Expanded)
- XIV. **Suppression of asymmetric flow behavior downstream of two side-by-side circular cylinders with a splitter plate in shallow water**
Oruc V., Akar M. A., AKILLI H., ŞAHİN B.
MEASUREMENT, vol.46, no.1, pp.442-455, 2013 (SCI-Expanded)
- XV. **Artificial neural network approaches for prediction of backwater through arched bridge constrictions**

- PINAR E., Paydas K., SEÇKİN G., AKILLI H., ŞAHİN B., Cobaner M., Kocaman S., AKAR M. A.
ADVANCES IN ENGINEERING SOFTWARE, vol.41, no.4, pp.627-635, 2010 (SCI-Expanded)
- XVI. **Qualitative and quantitative measurements of horseshoe vortex formation in the junction of horizontal and vertical plates**
ŞAHİN B., AKILLI H., Karakus C., AKAR M. A., Ozkul E.
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- XVII. **Control of vortex shedding of circular cylinder in shallow water flow using an attached splitter plate**
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- XVIII. **Flow characteristics of circular cylinders arranged side-by-side in shallow water**
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Articles Published in Other Journals

- I. **Investigation of the under-vehicle plastic protection parts manufactured by core-back injection process in terms of strength and weight**
GÜLTEKİN Y., AKAR M. A., ALTINDAĞ A., DURAN D., KUMLU U.
International Journal of Automotive Engineering and Technologies, vol.12, no.4, pp.133-143, 2023 (Peer-Reviewed Journal)
- II. **Analysis of the wear and friction of brake pad added cashew and ulexite using ANSYS**
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International Journal of Automotive Engineering and Technologies, vol.12, no.3, pp.83-91, 2023 (Peer-Reviewed Journal)
- III. **Base Bleed Flow Control Tool for Circular Cylinders with three Side-By-Side Arrangements in Shallow Water**
AKAR M. A., AKILLI H.
International Journal of Pioneering Technology and Engineering, vol.2, no.1, pp.128-134, 2023 (Peer-Reviewed Journal)
- IV. **TAŞIT AERODİNAMİĞİNDE KULLANILAN AHMED CİSMİNİN AKIŞ MODELİ İÇİN PRİZMATİK AĞ KATMANI OLUŞTURURKEN İZLENECEK STRATEJİ KEİYİNCİ S., AKAR M. A., BAŞ O., ÖZCANLI M.**
Mühendislik Bilimleri ve Tasarım Dergisi, vol.10, no.3, pp.776-785, 2022 (Peer-Reviewed Journal)
- V. **A Review on Biodiesel: From Feedstock to Utilization in Internal Combustion Engines**
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Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), vol.5, no.1, pp.417-428, 2022 (Peer-Reviewed Journal)
- VI. **Tensile and Morphological Properties of Waste Tire Rubber Granule/Polyester Polymer Matrix Composite**
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Çukurova Üniversitesi Mühendislik Fakültesi dergisi, vol.37, no.3, 2022 (Peer-Reviewed Journal)
- VII. **Feasibility of a Composite Material Formed with a Waste Granular Rubber Tire on Racing Vehicle Aerodynamic Wings**
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Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.3, no.2, pp.26-31, 2020 (Peer-Reviewed Journal)
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- IX. **PERFORMANCE OF AN SI ENGINE WITH DIFFERENT SPARK PLUGS, VCR AND H2 ADDITION**
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- X. **Characterization of SCR Catalyst Based Ag-Nb-Pt**
KESKİN A., YAŞAR A., Zeycan K., AKAR M. A., REŞİTOĞLU İ. A., ÖZARSLAN H., AYDIN K.
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- XI. **Effect of Spark Plug Alteration on Performance Using Hydrogen Enriched Gasoline in Si Engine Under Various Loads and Compression Ratios**
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- XII. **The effect of the splitter plates on flow characteristics that are vertically placed to the flow between side by side cylinders in shallow water**
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- XIII. **Altıgen Delikli Silindirin Geçirgenlik Oranının Silindir Arkasındaki Akış Bölgesine Etkisi**
AKAR M. A., BAŞ O., KÜÇÜK M.
Çukurova Üniversitesi Mühendislik-Mimarlık Fakültesi Dergisi, vol.31, no.2, pp.79-86, 2016 (Peer-Reviewed Journal)
- XIV. **Control of flow structure in the wake region of circular cylinder with meshy wire in deep water**
Oğuz B., AKAR M. A., PINAR E., AKILLI H., ŞAHİN B.
PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSİTESİ MUHENDİSLİK BİLİMLERİ DERGİSİ, vol.22, no.4, pp.280-284, 2016 (ESCI)
- XV. **Control of Vortex Shedding around a Circular Cylinder by Using Mesh Wire**
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- XVII. **Silindir Arkasındaki Daimi Olmayan Akış Yapısının Pasif Yöntemle Kontrolü**
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- XVIII. **Silindir Arkasındaki Akış Yapısının Delikli Silindirlerle Pasif Kontrolü**
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- XIX. **Sığ Suda Yanyana Sıralı İki Silindir Arkasındaki Daimi Olmayan Akış Yapısının İncelenmesi**
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- XX. **Sığ Suda Yan Yana Sıralı İki Silindir Arkasında Oluşan Akış Yapısının Pasif Yöntemle Kontrolü**
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Ç.Ü. Fen Bilimleri Enstitüsü, vol.19, no.3, pp.20-24, 2008 (Peer-Reviewed Journal)
- XXI. **Akışkanlar Mekaniği Uygulamalarında Parçacık Görüntülemeli Hız Ölçme Tekniği**
ŞAHİN B., AKILLI H., ÖZTÜRK N. A., KARAKUŞ C., KAHRAMAN A., AKAR M. A., YANIKTEPE B., ÖZALP C.
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- I. **Ballistic evaluation of armor plates at different angles**
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2nd International Congress on Multidisciplinary Natural Sciences, Ankara, Turkey, 01 December 2022, pp.230-240
- II. **The Usage of Natural Fibers for Automotive Applications**
AKAR M. A., Tosun A. T., Yel F., KUMLU U.
5th International Conference on Design and Technologies for Polymeric and Composites Products (POLCOM), Bucharest, Romania, 24 - 27 November 2021, vol.404
- III. **Potential of Using Agricultural Waste Composites as Thermal Insulation Material**
SERİN H., GÜZEL G., KUMLU U., AKAR M. A.
5th International Conference on Design and Technologies for Polymeric and Composites Products (POLCOM), Bucharest, Romania, 24 - 27 November 2021, vol.404
- IV. **Recycled Waste Tyre Granules as Filler Material in Polymer Matrix: Mechanical Characterization Assessment**
Yel F., Akar M. A., Kumlu U.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.310
- V. **Crashworthiness Analysis of Vehicle Side Door Beam with Finite Element Analysis**
Kumlu U., Akar M. A., Özcanlı M., Serin H., Çalık A.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.615
- VI. **Evaluation of Jute and Cotton Fabrics as Reinforcement Agent in Polymer Matrix Composites**
Tosun A. T., Akar M. A., Kumlu U.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.311
- VII. **Taşıt Aerodinamiği Araştırmalarında Daha Gerçekçi bir Model: DrivAer**
Baş O., Akar M. A., Özcanlı M., Serin H., Keiyinci S.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.370
- VIII. **A Study to Investigate The Effect of Dimpled Surfaces and Linking Tunnels on Ahmed Car Model Flow Characteristics**
Aydın V. K., Akar M. A., Baş O., Özcanlı M., Keiyinci S.
6th International Mediterranean Science and Engineering Congress (IMSEC 2021), Antalya, Turkey, 25 - 27 October 2021, pp.155
- IX. **Assessment of Hydrogen Utilization in Compression Ignition Engines as a Sustainable Fuel: An Overview**
Tosun E., Özcanlı M., Akar M. A., Özgür T., Serin H.
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- X. **Numerical Investigations of Curved Slanted Surface on the Ahmed Body**
Akar M. A., Oran A. H., Özcanlı M., Baş O.
5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.307
- XI. **Comparison of stainless steel and ultra-high strength steel usage as a piston head material in internal combustion engines**
Özcanlı M., Akar M. A., Karaçor B.
5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.254-258
- XII. **A Short Review on Water Emulsified Fuel Effects on Engine Performance and Emission Characteristics**
Tosun E., Özcanlı M., Özgür T., Akar M. A., Serin H.
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XIII. Influence of Hybrid Catalysts on SCR Systems

Akar M. A., Keskin Z.

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XIV. Computational Fluid Dynamics Analysis and Optimization of Geometric Modifications of a Model Land Vehicle (Ahmed Body)

Akar M. A., Vural B., Özcanlı M., Baş O.

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XV. Simulation of Friction and Wear Behavior of Colemanite and Borax Reinforced Brake Pads

Yaşar G., Bilgi G., Akar M. A., Sugözü İ., Özcanlı M.

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XVI. A Benchmark Study for Front Wing Design of a Formula Student Race Car

Özcanlı M., Akar M. A., Baş O.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Turkey, 21 - 23 October 2020, pp.310

XVII. A Review on Design Characteristics of Speed Breaker Systems and New Trends

Akar M. A., Yel F., Yıldırım A. T., Tosun E., Özcanlı M.

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XVIII. Advanced steel usage as a crankshaft materials in internal combustion engines; A case study

Karaçor B., Özcanlı M., Akar M. A.

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XIX. A Literature Review of Ignition System and Spark Plug Studies

AKAR M. A., BAŞ O.

2. ULUSLARARASI 19 MAYIS YENİLİKÇİ BİLİMSEL YAKLAŞIMLAR KONGRESİ, 27 - 29 December 2019

XX. Ultra-high strength steel usage in a sedan car chassis: A theoretical study

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XXI. Recycled composite usage for race car wing production: Effect of the surface roughness on aerodynamics

Akar M. A., Karaçor B., Özcanlı M., Serin H.

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XXII. Ahmed Body Drag Reduction by Usage of Dimpled and Bumped Surface

AKAR M. A., Aydın V. K., BAŞ O., ÖZCANLI M.

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XXIII. Analysis of Wear and Friction Using ANSYS of Brake Pad Added Cashew and Ulexit

AKAR M. A., SUGÖZÜ İ., BİLGİ G., ÖZCANLI M.

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XXIV. Ag-Cu-Nb/Kordiyerit HC-SCR Katalizör Üretimi ve Analizi

AKAR M. A., Keskin Z.

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XXV. Variation of Spark Plug and Spark Gap Size with Hydrogen and Ethanol Added Gasoline Fuel: Performance Characteristics

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- 4th International Mediterranean Science and Engineering Congress, 25 - 27 April 2019
- XXVI. **Ag-Ti-Cu/ Kordiyerit Katalizör Üretimi ve Karakterizasyon Analizi**
AKAR M. A., Keskin Z.
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- XXVII. **Drag Coefficient Reduction Studies on Ahmed Body: A Review**
AKAR M. A., Vural B., Çalık a., SERİN H., ÖZCANLI M.
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- XXVIII. **Applications of Shear Thickening Fluids (STFs) and Preparation : A Review**
AKAR M. A., YILDIRIM A. T., ÇALIK A., ÖZCANLI M.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Turkey, 25 - 27 April 2019, pp.881-883
- XXIX. **Comparison of St-52 steel and ultra-high strength steel as a of pipe type chassis material for formula student race car**
Karaçor B., Özcanlı M., Akar M. A., Yıldızhan Ş., Serin H.
4th International Mediterranean Science and Engineering Congress (IMSEC 2019), Antalya, Turkey, 25 - 27 April 2019, pp.671-674
- XXX. **Manufacturing Methods of Polymer Matrix Composites: A Brief Review of Techniques Convenient for Mass Production**
YILDIZHAN Ş., AKAR M. A., ÖZCANLI M., SERİN H.
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- XXXI. **SCR Sistemine Yönelik Ti-V-Mo/Kordiyerit Katalizörünün Üretimi ve Karakterizasyonu**
AKAR M. A., Keskin Z.
International Mediterranean Science and Engineering Congress, 24 - 26 October 2018
- XXXII. **Etanolun İndirgeyici Olarak Kullanımının SCR Sisteminde NOx Dönüşümüne Olan Etkisi**
AKAR M. A., Keskin Z.
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- XXXIII. **Effect of bioethanol blending with gasoline on emissions characteristics with spark plug alteration for SI engine**
AKAR M. A., BAŞ O., ÖZGÜR T., ÖZCANLI M.
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- XXXIV. **Micro hardness and water absorption properties of Cotton/Epoxy Bio-Composite**
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- XXXV. **Investigation the fuel properties of apricot kernel biodiesel and diesel-biodiesel fuel blends**
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- XXXVIII. **A case study of energy efficiency in annealing furnaces**
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- XXXIX. **Nano-Metal Katalizör Katkılarının Üç Yollu Katalitik Konvertörün (TWC) Karbon Monoksit (CO) Oksitlemesine Etkileri**
AKAR M. A., ÇALIK A., BAŞ O., YILDIZHAN Ş.
IV. ULUSAL MÜHENDİSLİK KONGRESİ, Afyon, Turkey, 22 - 25 December 2017, pp.20

- XL. **Recent studies on hydrogen usage in rotary SI engine**
ÖZCANLI M., BAŞ O., AKAR M. A., YILDIZHAN Ş., SERİN H.
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- XLI. **Effect of Hydrogen Enriched Nigella Sativa Oil Biodiesel on Performance and Emissions**
SERİN H., YILDIZHAN Ş., BAŞ O., AKAR M. A., ÖZCANLI M.
2nd International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 October 2017, pp.2277
- XLII. **Hydrogen Enriched Waste Oil Biodiesel Usage in Compression Ignition Engine**
AKAR M. A., Kekilli E., BAŞ O., YILDIZHAN Ş., SERİN H., ÖZCANLI M.
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- XLIII. **Hydrogen Enriched Waste Oil Biodiesel Usage in Compression Ignition Engine**
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- XLV. **Ti-V-Cu Esaslı SCR Sistem Katalizör Üretimi ve Karakterize Edilmesi**
AKAR M. A., Keskin Z.
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- XLVI. **Gümüş-Niyobyum Esaslı HC-SCR Sistem Katalizör Sentezi ve Karakterizasyonu**
AKAR M. A., Keskin Z.
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