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### Education Information

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Kimya/Analitik Kimya, Turkey 2001 - 2004

Postgraduate, Cukurova University, Fen Bilimleri Enstitüsü, Kimya/Analitik Kimya, Turkey 1998 - 2001

Undergraduate, Cukurova University, Fen Edebiyat Fakültesi, Kimya, Turkey 1994 - 1998

### Foreign Languages

Russian, B1 Intermediate

English, B2 Upper Intermediate

### Dissertations

Doctorate, Petrol Ağır Kesimleri İle Kömürlerin Birlikte Sıvılaştırılması ve Jet Yakıtı Eldesi, Cukurova University, Fen Bilimleri Enstitüsü, Kimya/Analitik Kimya, 2004

Postgraduate, Beypazarı (Çayırhan) Linyitinden Doğrudan Katalitik Hidrojenasyon İle Jet Yakıtı Eldesi, Cukurova University, Fen Edebiyat Fakültesi, Kimya/Analitik Kimya, 2001

### Academic Titles / Tasks

Professor, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2017 - Continues

Associate Professor, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2012 - 2017

Lecturer PhD, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, 2005 - 2012

### Advising Theses

Hasanoğlu A., Kömür/biyokütle karışımlarının hidrotermal gazlaştırılması, Doctorate, E.FAKI(Student), 2022

Hasanoğlu A., Haşıl uygulamalarında sentetik polimerler yerine nişasta bazlı polimerlerin kullanılması, Postgraduate, K.BOLAT(Student), 2020

Hasanoğlu A., Kömür-Biyokütle Karışımlarından Hidrojen Eldesi ve Karbondioksit Tecridi, Doctorate, A.SEÇER(Student), 2019

HASANOĞLU A., Kenafın İlimli Koşullarda Doğrudan Katalitik Gazlaştırılması ve Hidrojen Eldesi, Postgraduate,

İ.DEMİRÇİ(Student), 2017

HASANOĞLU A., Biyokütlenin Çözündürülmesi ve Atmosferik Koşullarda Gazlaştırılması, Doctorate,

M.KURTULUŞ(Student), 2017

HASANOĞLU A., BİYOKÜTLE HİDROLİZATLARININ DÜŞÜK SICAKLIK-BUHAR FAZINDA KATALİTİK GAZLAŞTIRILMASI, Postgraduate, Y.KENİŞ(Student), 2016

HASANOĞLU A., GRAFEN OKSİT/ARAMİD VE GRAFEN/ARAMİD KOMPOZİTLERİNİN GELİŞTİRİLMESİ, Postgraduate, E.ERİKLİ(Student), 2014

HASANOĞLU A., SORGUM BİYOKÜTLESİNDEN SULU FAZ REFORMLAMA İLE HİDROJEN GAZI ELDESİ, Postgraduate, O.İÇTEN(Student), 2011

HASANOĞLU A., ZEYTİN KARA SUYUNDAKİ TOKSİK FENOLİK BİLEŞİKLERİN FARKLI KARBON ELEKTROTLAR KULLANILARAK ELEKTRO-FENTON YÖNTEMİ İLE PARÇALANMASI, Postgraduate, F.KAPLAN(Student), 2009

HASANOĞLU A., TİTANYUM VE KARBON KEÇE ÜZERİNE PLATİN VE PLATİN/İRİDYUM KAPLAMA ELEKTRODLARIN KÖMÜR-SU KARIŞIMLARININ ELEKTROLİZİNDEKİ ETKİNLİKLERİNİN KIYASLANMASI, Postgraduate, H.KINIK(Student), 2009

HASANOĞLU A., BUĞDAY SAMANININ FARKLI KATALİZÖRLER KULLANILARAK SULU FAZ REFORMLAMA YÖNTEMİ İLE GAZLAŞTIRILMASI, Postgraduate, B.MERYEMOĞLU(Student), 2009

HASANOĞLU A., SÜPERKRİTİK KARBONDİOKSİT İLE ZEYTİNYAĞI ELDESİ VE BİYOFENOLİK İLE TRİGLİSERİD BİLEŞİMLERİ AÇISINDAN KONVANSİYONEL TEKNOLOJİLERLE ELDE EDİLEN ZEYTİNYAĞLAR İLE KIYASLANMASI, Postgraduate, C.BÜYÜKİKİZ(Student), 2007

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

- I. **The behavioral responses of *Ceratitis capitata* (Diptera: Tephritidae) to predominant volatile compounds of apricot**  
Tiring G., HASANOĞLU A., Gazit Y., Satar S.  
Phytochemistry Letters, vol.61, pp.292-297, 2024 (SCI-Expanded)
- II. **Utilization of PET (waste) via hydrothermal co-gasification with sorghum for hydrogen rich gas production**  
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- III. **Co-solvent effects on hydrothermal co-gasification of coal/biomass mixtures for hydrogen production**  
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FUEL, vol.331, 2023 (SCI-Expanded)
- IV. **Low temperature catalytic co-solvent gasification of biomass for hydrogen rich gas**  
Seçer A., Türker Üzden Ş., Hasanoğlu A.  
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- V. **Hydrogen production from low temperature supercritical water Co-Gasification of low rank lignites with biomass**  
Faki E., Uzden Ş., SEÇER A., HASANOĞLU A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.12, pp.7682-7692, 2022 (SCI-Expanded)
- VI. **Use of modified corn starches as environmental and cost-friendly alternatives of PVA in sizing applications**  
Bolat K., Hasanoğlu A., Seçer A.  
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- VII. **Hydrothermal co-gasification of sorghum biomass and çan lignite in mild conditions: An optimization study for high yield hydrogen production**  
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International Journal of Hydrogen Energy, vol.45, no.4, pp.2668-2680, 2020 (SCI-Expanded)
- VIII. **Evaluation of the effects of process parameters on co-gasification of çan lignite and sorghum**

**biomass with response surface methodology: An optimization study for high yield hydrogen production**

Secer A., HASANOĞLU A.

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- IX. **Hydrogen production by gasification of Kenaf under subcritical liquid-vapor phase conditions**  
HASANOĞLU A., Demirci I., Secer A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.27, pp.14127-14136, 2019 (SCI-Expanded)
- X. **Utilization of waste cotton linter for preparation of activated carbon to be used as catalyst support in aqueous-phase reforming process**  
Ozsel B. K., Nis B., MERYEMOĞLU B., HASANOĞLU A., Irmak S.  
ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.38, no.2, pp.445-450, 2019 (SCI-Expanded)
- XI. **Comparison of co-gasification efficiencies of coal, lignocellulosic biomass and biomass hydrolysate for high yield hydrogen production**  
SEÇER A., KÜÇET N., FAKI E., HASANOĞLU A.  
International Journal of Hydrogen Energy, pp.21269-21278, 2018 (SCI-Expanded)
- XII. **Hydrogen production by gasification of Kenaf under subcritical liquid-vapor phase conditions**  
HASANOĞLU A., Demirci I., SEÇER ATEŞ A.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, no.1, pp.18, 2018 (SCI-Expanded)
- XIII. **Production of activated carbon materials from kenaf biomass to be used as catalyst support in aqueous-phase reforming process**  
MERYEMOĞLU B., Irmak S., HASANOĞLU A.  
FUEL PROCESSING TECHNOLOGY, vol.151, pp.59-63, 2016 (SCI-Expanded)
- XIV. **A new approach for high-yield hydrogen production: Atmospheric pressure vapour-phase catalytic reforming of biomass hydrolysate**  
HASANOĞLU A., MERYEMOĞLU B., Irmak S., Kurtuluş M., ERBATUR O.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.30, pp.12880-12887, 2016 (SCI-Expanded)
- XV. **Improving activity of Pt supported metal catalysts by changing reduction method of Pt precursor for hydrogen production from biomass**  
Irmak S., MERYEMOĞLU B., OZSEL B. K., HASANOĞLU A., ERBATUR O.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.43, pp.14826-14832, 2015 (SCI-Expanded)
- XVI. **Developing Pt based bimetallic and trimetallic carbon supported catalysts for aqueous-phase reforming of biomass-derived compounds**  
Kaya B., IRMAK S., HASANOĞLU A., ERBATUR O.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.10, pp.3849-3858, 2015 (SCI-Expanded)
- XVII. **Does reduced or non-reduced biomass feed produce more gas in aqueous-phase reforming process?**  
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- XVIII. **Influence of particle size of support on reforming activity and selectivity of activated carbon supported platinum catalyst in APR**  
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- XIX. **Evaluation of various carbon materials supported Pt catalysts for aqueous-phase reforming of lignocellulosic biomass hydrolysate**  
Kaya B., IRMAK S., HASANOĞLU A., ERBATUR O.  
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- XX. **Hydrogen production from aqueous-phase reforming of sorghum biomass: An application of the response surface methodology**  
Meryemoglu B., HASANOĞLU A., Kaya B., IRMAK S., ERBATUR O.  
RENEWABLE ENERGY, vol.62, pp.535-541, 2014 (SCI-Expanded)
- XXI. **Biofuel production by liquefaction of kenaf (Hibiscus cannabinus L.) biomass**  
Meryemoglu B., HASANOĞLU A., IRMAK S., ERBATUR O.

- BIORESOURCE TECHNOLOGY, vol.151, pp.278-283, 2014 (SCI-Expanded)
- XXII. **Gasification efficiencies of cellulose, hemicellulose and lignin fractions of biomass in aqueous media by using Pt on activated carbon catalyst**  
IRMAK S., Kurtulus M., Hasanoglu (Hesenov) A., ERBATUR O.  
BIOMASS & BIOENERGY, vol.49, pp.102-108, 2013 (SCI-Expanded)
- XXIII. **Co-processing of Turkish High-Sulfur Coals and Their Blends with a Petroleum Asphalt. Part 1: In the Absence of a Catalyst**  
Hasanoglu (Hesenov) A., Gul O., Aksoy P., ERBATUR O.  
ENERGY & FUELS, vol.26, no.12, pp.7220-7229, 2012 (SCI-Expanded)
- XXIV. **Effect of support materials on supported platinum catalyst prepared using a supercritical fluid deposition technique and their catalytic performance for hydrogen-rich gas production from lignocellulosic biomass**  
Kaya B., IRMAK S., Hesenov A., ERBATUR O., Erkey C.  
BIORESOURCE TECHNOLOGY, vol.123, pp.723-726, 2012 (SCI-Expanded)
- XXV. **Comparison of batch aqueous-phase reforming of glycerol and lignocellulosic biomass hydrolysate**  
Meryemoglu B., Kaya B., IRMAK S., Hesenov A., ERBATUR O.  
FUEL, vol.97, pp.241-244, 2012 (SCI-Expanded)
- XXVI. **Electrolysis of coal slurries to produce hydrogen gas: Effects of different factors on hydrogen yield**  
Hesenov A., Meryemoglu B., ICTEN O.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.19, pp.12249-12258, 2011 (SCI-Expanded)
- XXVII. **Effects of the dietary flax or grape seed oils on the egg yolk fatty acid composition and on the n-3/n-6 polyunsaturated fatty acid ratio in laying hens**  
ÇELİK L. T., KUTLU H. R., SAHAN Z., KIRAZ A. B., SERBESTER U., HESENOV A., TEKELI A.  
REVUE DE MEDECINE VETERINAIRE, vol.162, no.6, pp.297-303, 2011 (SCI-Expanded)
- XXVIII. **Electrolysis of coal slurries to produce hydrogen gas: Relationship between CO<sub>2</sub> and H<sub>2</sub> formation**  
Hesenov A., KINIK H., PULL G., Gozmen B., IRMAK S., ERBATUR O.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.36, no.9, pp.5361-5368, 2011 (SCI-Expanded)
- XXIX. **Dietary inclusion of pumpkin seed oil for a cholesterol low and oleic and linolenic acid rich egg production in layer hens**  
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- XXX. **Degradations of model compounds representing some phenolics in olive mill wastewater via electro-Fenton and photoelectro-Fenton treatments**  
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ENVIRONMENTAL TECHNOLOGY, vol.32, no.7, pp.685-692, 2011 (SCI-Expanded)
- XXXI. **Aqueous-phase reforming of biomass using various types of supported precious metal and raney-nickel catalysts for hydrogen production**  
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INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.35, no.22, pp.12580-12587, 2010 (SCI-Expanded)
- XXXII. **Hydrolysis of kenaf (*Hibiscus cannabinus* L.) stems by catalytical thermal treatment in subcritical water**  
ÖZTÜRK I., IRMAK S., Hesenov A., ERBATUR O.  
BIOMASS & BIOENERGY, vol.34, no.11, pp.1578-1585, 2010 (SCI-Expanded)
- XXXIII. **Study on the stability of supercritical fluid extracted rosemary (*Rosmarinus officinalis* L.) essential oil**  
IRMAK S., SOLAKYILDIRIM K., Hesenov A., ERBATUR O.  
JOURNAL OF ANALYTICAL CHEMISTRY, vol.65, no.9, pp.899-906, 2010 (SCI-Expanded)
- XXXIV. **Oxidative degradations of reactive blue 4 dye by different advanced oxidation methods**  
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- XXXV. **Photocatalytic degradation of Basic Red 46 and Basic Yellow 28 in single and binary mixture by**

### UV/TiO<sub>2</sub>/periodate system

Goezmen B., Turabik M., Hesenov A.

JOURNAL OF HAZARDOUS MATERIALS, vol.164, pp.1487-1495, 2009 (SCI-Expanded)

XXXVI. **Catalytic direct liquefaction of high-sulfur coals and their blends with asphaltite in the absence of a solvent**

Guel O., GAFAROVA P., Hesenov A., SCHOBERT H. H., Erbatur O.

ENERGY & FUELS, vol.21, no.4, pp.2216-2225, 2007 (SCI-Expanded)

XXXVII. **PETR 84-Co-liquefaction of Cayirhan lignite blended with petroleum vacuum residue**

Hesenov A., Guel O., Aksoy P. G., Schobert H., ERBATUR O.

ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.232, 2006 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Tunçbilek Linyitinin Sorgum Biyokütlesi ve Biyokütle Hidrolizatı ile Birlikte Gazlaştırılması**  
Seçer A., Hasanoğlu A.  
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.24, no.1, pp.57-63, 2020 (Peer-Reviewed Journal)
- II. **Çan Linyitinin Katalitik Gazlaştırılması ile Hidrojen Eldesi**  
SEÇER A., HASANOĞLU A.  
Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.9, no.1, pp.223-232, 2019 (Peer-Reviewed Journal)
- III. **Investigation of Organic Solvents Effects on Kenaf (Hibiscus cannabinus L.) Biomass Conversion in Subcritical Water**  
MERYEMOĞLU B., HASANOĞLU A., KURTULUŞ M., IRMAK S.  
Journal of the Turkish Chemical Society, Section A: Chemistry, pp.1423-1430, 2018 (Scopus)
- IV. **Kenaf Hidrolizi Sonrası Kalan Katı Atığın Gazlaştırılması**  
MERYEMOĞLU B., HASANOĞLU A.  
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- V. **Kenaf Hidrolizatının Gazlaştırılması ve Cevap YüzeyYöntemi ile Optimizasyonu**  
HASANOĞLU A., MERYEMOĞLU B.  
Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, 2017 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Polietilen Tereftalat'ın (PET) Organik Çözücülerle Birlikte Gazlaştırılması**  
HASANOĞLU A., KOLDAŞ M.  
35. Ulusal Kimya Kongresi, Diyarbakır, Turkey, 09 September 2024
- II. **EVALUATION OF HYDROGEN PRODUCTION FROM GASIFICATION OF SINGLE PLASTIC (PET) AND MIX PLASTIC (PET/HDPE) WITH SORGHUM BIOMASS**  
TÜRKER ÜZDEN Ş., SEÇER A., HASANOĞLU A.  
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- III. **The effect of gasification of polyethylene terephthalate (PET) at different temperatures on total gas and hydrogen yield by atmospheric pressure vapor phase reforming**  
TÜRKER ÜZDEN Ş., HASANOĞLU A.  
3rd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2021), 15 December 2021
- IV. **Hydrogen production from Kenaf biomass: Effect of catalyst**  
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ENERSTOCK 2018, 25 - 28 April 2018
- V. **Comparison of activated carbon supported metal catalyst efficiencies of biomass hydrolysates for**

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

- VI. **Hydrogen Production from Kenaf Biomass: Effect of Catalyst**  
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- VII. **UTILIZATION OF AGRICULTURAL BY-PRODUCTS FOR ACTIVATED CARBON PRODUCTION AND ITS USE AS CATALYST SUPPORT**  
KAYA ÖZSEL B., NİŞ B., MERYEMOĞLU B., HASANOĞLU A.  
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- VIII. **Influence of type of carbon support on the reforming activity and selectivity of supported Pt catalysts for APR of glucose**  
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- IX. **Co-gasification of Çan Lignite with Kenaf Hydrolysate: Effects of Temperature and Flow Rate**  
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2 nd International Hydrogen Technologies Congress, 15 - 18 March 2017
- X. **Low Temperature-Steam Phase Catalytic Gasification of Biomass Hydrolysates**  
HASANOĞLU A., MERYEMOĞLU B., demirci İ., IRMAK S.  
2. Uluslararası Hidrojen Teknolojileri Kongresi, 15 - 18 March 2017
- XI. **High Yield Hydrogen Production Through Aqueous-Phase Reforming of Biomass Hydrolysate Over Carbon Nanotube Supported Pt Catalysts**  
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- XII. **Effect of Temperature on Catalytic Gasification of Biomass for Hydrogen Production**  
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- XIII. **High-Yield Hydrogen Production Through Aqueous-Phase Reforming of Biomass Hydrolysate Over Carbon Nanotube Supported Pt Catalysts**  
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- XIV. **Gasification of Çan Lignite with AVPR Method for Hydrogen Production**  
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- XV. **The Catalytic Gasification of Kenaf Water Mixtures Under Mild Condition**  
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- XVI. **The Effect of Organic Solvents On Biomass Hydrolysis**  
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- XVII. **THE EFFECT OF PEROXIDE ON BIOMASS HYDROLYSIS AND CATALYTIC GASIFICATION OF HYDROLYSATES**  
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- XIX. **Preparation supported Pt and Ru catalysts and their performances in AVPR Process**  
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- XX. **The effect of peroxide on biomass hydrolysis and catalytic gasification on hydrolysates**  
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- XXI. **LİGNOSELÜLOZİK BİYOKÜTLE HİDROLİZATLARININ GAZLAŞTIRILMASINDA KULLANILMAK ÜZERE AKTİF KATALİZÖR GELİŞTİRİLMESİ**  
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- XXII. **Evaluation of Activity of Prepared Activated Carbon Supported Pt Catalysts for Gasification of Biomass Hydrolysates**  
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- XXIII. **SULU FAZ REFORMLAMA YÖNTEMİYLE HİDROJEN GAZI OLUŞTURMADA KULLANILAN KATALİZÖRÜN DESTEK MATERYALİNİN PARTİKÜL BOYUTUNUN ETKİSİ**  
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VI. Ulusal Analitik Kimya Kongresi, Turkey, 3 - 07 September 2012
- XXIV. **BİYOKÜTLEDEN SULU ORTAMDA HİDROJENCE ZENGİN GAZ KARIŞIMI ELDE ETMEK İÇİN AKTİF KARBON DESTEKLİ PLATİN KATALİZÖRLERİN GELİŞTİRİLMESİ**  
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- XXVI. **DEVELOPING AQUEOUS PHASE REFORMING CATALYSTS VIA DOPING PLATINUM ON VARIOUS CARBON MATERIALS FOR HYDROGEN GAS PRODUCTION FROM LIGNOCELLULOSIC HYDROLYSATES**  
KAYA ÖZSEL B., MERYEMOĞLU B., HASANOĞLU A., IRMAK S., ERKEY C., ERBATUR O.  
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