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Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Türkiye 2005 - 2010

Yüksek Lisans, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Türkiye 2003 - 2005

Lisans, Abant İzzet Baysal Üniversitesi, Fen Edebiyat Fakültesi, Kimya, Türkiye 1997 - 2002

Yabancı Diller

İngilizce, C1 İleri

Sertifika, Kurs ve Eğitimler

Diğer, SEM Use and Operation, Massachusetts Institute of Technology, 2011

Diğer, TEM Use and Operation, Massachusetts Institute of Technology, 2011

Diğer, XRD Use and Operation, Massachusetts Institute of Technology, 2011

Diğer, NMR Use and Operation, Laboratoire de Chimie de Coordination, 2009

Yaptığı Tezler

Doktora, The Preparation and Characterization of Zeolite Confined Ruthenium(0) Nanoclusters and Investigation of Their Catalytic Activity in the Dehydrogenation of Sodium Borohydride and the Hydrogenation of Olefins/Arenes, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, 2010

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Araştırma Alanları

Kimya, Fizikokimya, Kimyasal Kinetik, Nanokompozitler, İnorganik Kimya, İnorganik Tepkime Mekanizmaları ve Kinetiği, Kataliz, Nanokümler, Organik Kimya, Makromoleküller Kimyası, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., Van Yüzüncü Yıl Üniversitesi, Fen Fakültesi, Kimya, 2018 - Devam Ediyor

Doç.Dr., Van Yüzüncü Yıl Üniversitesi, Fen Fakültesi, Kimya, 2013 - 2018

Yrd.Doç.Dr., Van Yüzüncü Yıl Üniversitesi, Fen Fakültesi, Kimya, 2012 - 2013
Araştırma Görevlisi Dr., Van Yüzüncü Yıl Üniversitesi, Fen Fakültesi, Kimya, 2010 - 2012
Araştırma Görevlisi, Orta Doğu Teknik Üniversitesi, Fen Fakültesi, Kimya, 2003 - 2010

Mesleki Deneyim

BAP Koordinatörü, Van Yüzüncü Yıl Üniversitesi, 2019 - Devam Ediyor

Yönetilen Tezler

- Zahmakran M., MIL-101 Metal Organik Kafes Yapısı Kararlı Paladyum (0) Nanokümelere: Sentezi, Tanımlanması ve Amonyak-Boranın Metanoliz Tepkimesindeki Katalitik Performanslarının İncelenmesi, Yüksek Lisans, N.Caner(Öğrenci), 2018
- Zahmakran M., NANOİDROTALSİT KARARLI RUTENYUM NANOKÜMELERİ: SENTEZİ, TANIMLANMASI VE LİGNİN MODEL BİLEŞİKLERİNİN OKSİDASYON TEPKİMELERİNDEKİ KATALİTİK PERFORMANSI, Yüksek Lisans, İ.Burak(Öğrenci), 2017
- Zahmakran M., Metal Organik Kafes Yapısında Kararlaştırılmış Geçiş Metal Nanokümelere ve Fenol Hidrojenlenmesindeki Katalitik Performansları, Doktora, İ.Efecan(Öğrenci), 2017
- Zahmakran M., Amin Grubu Fonksiyonellenmiş Silika Üzerine Tutturulmuş Metal Nanokümelere Sentezi, Tanımlanması ve Formik Asitin (HCOOH) Dehidrojenlenme Tepkimesindeki Katalitik Performanslarının İncelenmesi, Yüksek Lisans, A.Bulut(Öğrenci), 2016
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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Ruthenium Nanoparticles Supported on Reduced Graphene Oxide: Efficient Catalyst for the Catalytic Reduction of Cr(VI) in the Presence of Amine-Boranes**
Yurderi M., Bulut A., Kanberoğlu G. S. , Kaya M., KANBUR Y., Zahmakran M.
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- II. **Silica supported ternary NiRuPt alloy nanoparticles: Highly efficient heterogeneous catalyst for H₂ generation via selective decomposition of hydrous hydrazine in alkaline solution**
Karataş Y., Gülcan M., Zahmakran M.
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- III. **Complete Dehydrogenation of Hydrazine Borane on Manganese Oxide Nanorod-Supported Ni@Ir Core-Shell Nanoparticles**
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- IV. **Cobalt nanoparticles supported on alumina nanofibers (Co/Al₂O₃): Cost effective catalytic system for the hydrolysis of methylamine borane**
Bağuç I. B. , Yurderi M., Bulut A., Çelebi M., Kanberoğlu G. S. , Zahmakran M., Kaya M., Aydemir M., Durap F., Baysal A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, cilt.44, ss.28441-28450, 2019 (SCI İndekslerine Giren Dergi)
- V. **Palladium nanoparticles decorated on amine functionalized graphene nanosheets as excellent nanocatalyst for the hydrogenation of nitrophenols to aminophenol counterparts**
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- VI. **Palladium Nanoparticles Decorated on Amine Functionalized Graphene Nanosheets as Excellent**

- Nanocatalyst for the Hydrogenation of Nitrophenols to Aminophenol Counterparts**
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- VII. **Palladium Nanoparticles Decorated on Amine Functionalized Graphene Nanosheets as Excellent Nanocatalyst for the Hydrogenation of Nitrophenols to Aminophenol Counterparts**
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- VIII. **Nanocrystalline metal organic framework (MIL-101) stabilized copper Nanoparticles: Highly efficient nanocatalyst for the hydrolytic dehydrogenation of methylamine borane**
Bağuç I. B. , ERTAS I. E. , Yurderi M., BULUT A., Zahmakıran M., Kaya M.
INORGANICA CHIMICA ACTA, cilt.483, ss.431-439, 2018 (SCI İndekslerine Giren Dergi)
- IX. **Amine-functionalized graphene nanosheet-supported PdAuNi alloy nanoparticles: efficient nanocatalyst for formic acid dehydrogenation**
Bulut A., Yurderi M., Kaya M., Aydemir M., Baysal A., Durap F., Zahmakıran M.
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- X. **Atomic Layer Deposition of Ruthenium Nanoparticles on Electrospun Carbon Nanofibers: A Highly Efficient Nanocatalyst for the Hydrolytic Dehydrogenation of Methylamine Borane**
Khalily M. A. , Yurderi M., Haider A., BULUT A., Patil B., Zahmakıran M., Uyar T.
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- XI. **Synthesis, characterization, and enhanced formic acid electrooxidation activity of carbon supported MnO_x promoted Pd nanoparticles**
BULUT A., YURDERI M., ALAL O., Kivrak H., Kaya M., Zahmakıran M.
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- XII. **Electrochemical sensing of hydrogen peroxide using Pd@Ag bimetallic nanoparticles decorated functionalized reduced graphene oxide**
Güler M., Türkoğlu V., BULUT A., Zahmakıran M.
ELECTROCHIMICA ACTA, cilt.263, ss.118-126, 2018 (SCI İndekslerine Giren Dergi)
- XIII. **Palladium Nanoparticles Supported on Hydroxyapatite Nanospheres: Highly Active, Reusable and Green Catalyst for Suzuki - Miyaura Cross Coupling Reactions under Aerobic Conditions**
BULUT A., Aydemir M., Durap F., Gülcan M., Zahmakıran M.
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- XIV. **Nanohydroxalite Supported Ruthenium Nanoparticles: Highly Efficient Heterogeneous Catalyst for the Oxidative Valorization of Lignin Model Compounds**
Baguc I. B. , Çelebi M., Karakas K., Ertas I. E. , Keles M. N. , KAYA M., Zahmakıran M.
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- XV. **Pd(0) Nanoparticles Decorated on Graphene Nanosheets (GNS): Synthesis, Definition and Testing of the Catalytic Performance in the Methanolysis of Ammonia Borane at Room Conditions**
Karataş Y., Gülcan M., Çelebi M., Zahmakıran M.
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- XVI. **Methylene blue photocatalytic degradation under visible light irradiation on copper phthalocyanine-sensitized TiO₂ nanopowders**
Cabir B., YURDERI M., CANER N., Ağırtaş M. S. , Zahmakıran M., Kaya M.
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, cilt.224, ss.9-17, 2017 (SCI İndekslerine Giren Dergi)
- XVII. **Palladium Nanoparticles Decorated Graphene Oxide: Active and Reusable Nanocatalyst for the Catalytic Reduction of Hexavalent Chromium(VI)**
Çelebi M., Karakas K., Ertas I. E. , KAYA M., Zahmakıran M.
CHEMISTRYSELECT, cilt.2, ss.8312-8319, 2017 (SCI İndekslerine Giren Dergi)
- XVIII. **Atomic layer deposition-SiO₂ layers protected PdCoNi nanoparticles supported on TiO₂ nanopowders: Exceptionally stable nanocatalyst for the dehydrogenation of formic acid**
Caner N., Bulut A., Yurderi M., Ertas I. E. , Demir Kivrak H., KAYA M., Zahmakıran M.

- APPLIED CATALYSIS B-ENVIRONMENTAL, cilt.210, ss.470-483, 2017 (SCI İndekslerine Giren Dergi)
- XIX. Nickel nanoparticles decorated on electrospun polycaprolactone/chitosan nanofibers as flexible, highly active and reusable nanocatalyst in the reduction of nitrophenols under mild conditions**
KARAKAS K., Celebioglu A., Çelebi M., Uyar T., Zahmakran M.
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- XX. Keggin Type-Polyoxometalate Decorated Ruthenium Nanoparticles: Highly Active and Selective Nanocatalyst for the Oxidation of Veratryl Alcohol as a Lignin Model Compound**
Baguc I. B. , Saglam S., Ertas I. E. , Keles M. N. , Çelebi M., KAYA M., Zahmakran M.
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- XXI. Metal-organic framework (MIL-101) stabilized ruthenium nanoparticles: Highly efficient catalytic material in the phenol hydrogenation**
ERTAS I. E. , Gülcan M., BULUT A., YURDERI M., Zahmakran M.
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- XXII. Carbon dispersed copper-cobalt alloy nanoparticles: A cost-effective heterogeneous catalyst with exceptional performance in the hydrolytic dehydrogenation of ammonia-borane**
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- XXIII. PdAu-MnO_x nanoparticles supported on amine-functionalized SiO₂ for the room temperature dehydrogenation of formic acid in the absence of additives**
Karataş Y., BULUT A., YURDERI M., ERTAS I. E. , ALAL O., Gülcan M., Çelebi M., KIVRAK H., Kaya M., Zahmakran M.
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- XXIV. Palladium nanoparticles supported on amine-functionalized SiO₂ for the catalytic hexavalent chromium reduction**
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- XXV. Rhodium nanoparticles stabilized by sulfonic acid functionalized metal-organic framework for the selective hydrogenation of phenol to cyclohexanone**
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- XXVI. MnO_x-Promoted PdAg Alloy Nanoparticles for the Additive-Free Dehydrogenation of Formic Acid at Room Temperature**
BULUT A., YURDERI M., Karataş Y., Say Z., KIVRAK H., Kaya M., Gülcan M., Ozensoy E., Zahmakran M.
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- XXVII. Dihydrogen Phosphate Stabilized Ruthenium(0) Nanoparticles: Efficient Nanocatalyst for The Hydrolysis of Ammonia-Borane at Room Temperature**
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MATERIALS, cilt.8, ss.4226-4238, 2015 (SCI İndekslerine Giren Dergi)
- XXVIII. Supported copper-copper oxide nanoparticles as active, stable and low-cost catalyst in the methanolysis of ammonia-borane for chemical hydrogen storage**
YURDERI M., BULUT A., ERTAS I. E. , Zahmakran M., Kaya M.
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- XXIX. Pd-MnO_x nanoparticles dispersed on amine-grafted silica: Highly efficient nanocatalyst for hydrogen production from additive-free dehydrogenation of formic acid under mild conditions**
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- XXX. Amine grafted silica supported CrAuPd alloy nanoparticles: superb heterogeneous catalysts for the room temperature dehydrogenation of formic acid**
YURDERI M., BULUT A., CANER N., Çelebi M., Kaya M., Zahmakran M.
CHEMICAL COMMUNICATIONS, cilt.51, ss.11417-11420, 2015 (SCI İndekslerine Giren Dergi)
- XXXI. Carbon supported trimetallic PdNiAg nanoparticles as highly active, selective and reusable catalyst in the formic acid decomposition**

- YURDERI M., BULUT A., Zahmakran M., Kaya M.
APPLIED CATALYSIS B-ENVIRONMENTAL, cilt.160, ss.514-524, 2014 (SCI İndekslerine Giren Dergi)
- XXXII. **Ruthenium(0) nanoparticles stabilized by metal-organic framework (ZIF-8): Highly efficient catalyst for the dehydrogenation of dimethylamine-borane and transfer hydrogenation of unsaturated hydrocarbons using dimethylamine-borane as hydrogen source**
YURDERI M., BULUT A., Zahmakran M., Gülcan M., ÖZKAR S.
APPLIED CATALYSIS B-ENVIRONMENTAL, cilt.160, ss.534-541, 2014 (SCI İndekslerine Giren Dergi)
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Karataş Y., YURDERI M., Gülcan M., Zahmakran M., Kaya M.
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- XXXIV. **Iridium(0) nanoparticles dispersed in zeolite framework: A highly active and long-lived green nanocatalyst for the hydrogenation of neat aromatics at room temperature**
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- XXXV. **Palladium(0) nanoparticles supported on metal organic framework as highly active and reusable nanocatalyst in dehydrogenation of dimethylamine-borane**
Gülcan M., Zahmakran M., ÖZKAR S.
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- XXXVI. **Amylamine stabilized platinum(0) nanoparticles: active and reusable nanocatalyst in the room temperature dehydrogenation of dimethylamine-borane**
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- XXXVII. **Hydroxyapatite-nanosphere supported ruthenium(0) nanoparticle catalyst for hydrogen generation from ammonia-borane solution: kinetic studies for nanoparticle formation and hydrogen evolution**
DURAK H., Gülcan M., Zahmakran M., ÖZKAR S., Kaya M.
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- XXXVIII. **Preparation of metal nanoparticles stabilized by the framework of porous materials**
Zahmakran M., ÖZKAR S.
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- XXXIX. **Transition Metal Nanoparticles in Catalysis for the Hydrogen Generation from the Hydrolysis of Ammonia-Borane**
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- XL. **Effect of silver encapsulation on the local structure of titanosilicate ETS-10**
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- XLI. **Copper(0) Nanoparticles Supported on Silica-Coated Cobalt Ferrite Magnetic Particles: Cost Effective Catalyst in the Hydrolysis of Ammonia-Borane with an Exceptional Reusability Performance**
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- XLII. **Preparation and characterization of LTA-type zeolite framework dispersed ruthenium nanoparticles and their catalytic application in the hydrolytic dehydrogenation of ammonia-borane for efficient hydrogen generation**
Zahmakran M.
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- XLIII. **In Situ Formed Catalytically Active Ruthenium Nanocatalyst in Room Temperature Dehydrogenation/Dehydrocoupling of Ammonia-Borane from Ru(cod)(cot) Precatalyst**
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- XLIV. **Hydrogen generation from the hydrolysis of hydrazine-borane catalyzed by rhodium(0) nanoparticles supported on hydroxyapatite**
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- XLV. **Rhodium(0) nanoparticles supported on nanocrystalline hydroxyapatite: Highly effective catalytic system for the solvent-free hydrogenation of aromatics at room temperature**
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- XLVI. **Size-controllable APTS stabilized ruthenium(0) nanoparticles catalyst for the dehydrogenation of dimethylamine-borane at room temperature**
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- XLVII. **Hydrogen liberation from the hydrolytic dehydrogenation of dimethylamine-borane at room temperature by using a novel ruthenium nanocatalyst**
Caliskan S., Zahmakiran M., Durap F., ÖZKAR S.
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- XLVIII. **Iridium nanoparticles stabilized by metal organic frameworks (IrNPs@ZIF-8): synthesis, structural properties and catalytic performance**
Zahmakiran M.
DALTON TRANSACTIONS, cilt.41, ss.12690-12696, 2012 (SCI İndekslerine Giren Dergi)
- XLIX. **A facile one-step synthesis of polymer supported rhodium nanoparticles in organic medium and their catalytic performance in the dehydrogenation of ammonia-borane**
Karahan S., Zahmakiran M., ÖZKAR S.
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- L. **Catalytic methanolysis of hydrazine borane: a new and efficient hydrogen generation system under mild conditions**
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- LI. **Zeolite framework stabilized nickel(0) nanoparticles: Active and long-lived catalyst for hydrogen generation from the hydrolysis of ammonia-borane and sodium borohydride**
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- LII. **Catalytic hydrolysis of hydrazine borane for chemical hydrogen storage: Highly efficient and fast hydrogen generation system at room temperature**
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- LIII. **One-pot synthesis of colloiddally robust rhodium(0) nanoparticles and their catalytic activity in the dehydrogenation of ammonia-borane for chemical hydrogen storage**
Ayvali T., Zahmakiran M., ÖZKAR S.
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- LIV. **Metal nanoparticles in liquid phase catalysis; from recent advances to future goals**
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- LV. **Osmium(0) nanoclusters stabilized by zeolite framework; highly active catalyst in the aerobic oxidation of alcohols under mild conditions**
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- LVI. **In Situ Formed "Weakly Ligated/Labile Ligand" Iridium(0) Nanoparticles and Aggregates as Catalysts for the Complete Hydrogenation of Neat Benzene at Room Temperature and Mild Pressures**

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