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### Araştırma Alanları

İnorganik Kimya, Kataliz, Koordinasyon Kimyası, Metal olefin kompleksleri, Metaller, Organometalik Kimya , Temel Bilimler

### Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, 1988 - Devam Ediyor

Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, 1982 - 1988

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya Bölümü, 1979 - 1982

### Yönetilen Tezler

ÖZKAR S., Amonyak boran hidrolizinden hidrojen üretimi için etkinliği yüksek, manyetik olarak ayrılabilir ve yeniden kullanılabilir katalizör olarak çıplak veya silika kaplı demir oksit yüzeyine tutunmuş rutenyum(0) nanokümler, Yüksek Lisans, E.Sarıca(Öğrenci), 2019

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ÖZKAR S., Hidroksiapatit üzerinde desteklendirilmiş Rodyum(0) Nanoparçacıkları : hazırlanması, karakterizasyonu ve Hidrazin-Boran ve Amonyak-Boran hidrolizinden Hidrogen üretimde katalitik olarak kullanılması., Yüksek Lisans, D.Çelik(Öğrenci), 2012

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ÖZKAR S., Synthesis and electrochemical study of tetracarbonyl-(n2:2-diene) metal (0) complexes of the group 6B elements, Yüksek Lisans, A.Aygüney(Öğrenci), 1993

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ÖZKAR S., Synthesis, stereochemistry and reactivity of diimine-carbonylmetal (0) complexes of 6B elements, Doktora, C.Kayran(Öğrenci), 1991

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## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Recent advances in heterogeneous catalysts for the effective electroreduction of carbon dioxide to carbon monoxide**  
Eren E. O. , ÖZKAR S.  
Journal of Power Sources, cilt.506, 2021 (SCI İndekslerine Giren Dergi)
- II. **Cobalt ferrite supported platinum nanoparticles: Superb catalytic activity and outstanding reusability in hydrogen generation from the hydrolysis of ammonia borane**  
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- III. **Magnetically Isolable Pt<sub>0</sub>/Co<sub>3</sub>O<sub>4</sub> Nanocatalysts: Outstanding Catalytic Activity and High Reusability in Hydrolytic Dehydrogenation of Ammonia Borane**  
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ACS Applied Materials and Interfaces, cilt.13, sa.29, ss.34341-34348, 2021 (SCI İndekslerine Giren Dergi)
- IV. **Magnetically separable transition metal nanoparticles as catalysts in hydrogen generation from the hydrolysis of ammonia borane**  
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- VI. **Rhodium(0), Ruthenium(0) and Palladium(0) nanoparticles supported on carbon-coated iron: Magnetically isolable and reusable catalysts for hydrolytic dehydrogenation of ammonia borane**  
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- VII. **Tungsten(VI) oxide supported rhodium nanoparticles: Highly active catalysts in hydrogen generation from ammonia borane**  
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- VIII. **Highly active, robust and reusable micro-/mesoporous TiN/Si<sub>3</sub>N<sub>4</sub> nanocomposite-based catalysts for clean energy: Understanding the key role of TiN nanoclusters and amorphous Si<sub>3</sub>N<sub>4</sub> matrix in the performance of the catalyst system**  
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- IX. **Ceria Supported Nickel(0) Nanoparticles: A Highly Active and Low Cost Electrocatalyst for Hydrogen Evolution Reaction**  
DEMİR ARABACI E., ÖNAL A. M., ÖZKAR S.  
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- X. **Magnetically Separable Rh-0/Co<sub>3</sub>O<sub>4</sub> Nanocatalyst Provides over a Million Turnovers in Hydrogen Release from Ammonia Borane**  
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- XI. **Transition metal nanoparticle catalysts in releasing hydrogen from the methanolysis of ammonia borane**  
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- XII. **Synthesis of zinc borate using water soluble additives: Kinetics and product characterization**  
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- XIII. **Particle Size Distributions via Mechanism-Enabled Population Balance Modeling**  
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- XIV. **Dust Effects on Ir(0)(n) Nanoparticle Formation Nucleation and Growth Kinetics and Particle Size-Distributions: Analysis by and Insights from Mechanism-Enabled Population Balance Modeling**  
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- XVI. **Ceria supported ruthenium nanoparticles: Remarkable catalyst for H<sub>2</sub> evolution from dimethylamine borane**  
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- XVII. **Magnetically separable rhodium nanoparticles as catalysts for releasing hydrogen from the hydrolysis of ammonia borane**  
Tonbul Y., Akbayrak S., ÖZKAR S.  
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- XVIII. **LaMer's 1950 Model for Particle Formation of Instantaneous Nucleation and Diffusion-Controlled Growth: A Historical Look at the Model's Origins, Assumptions, Equations, and Underlying Sulfur Sol Formation Kinetics Data**  
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- XX. **Nanoparticle Formation Kinetics and Mechanistic Studies Important to Mechanism-Based Particle-Size Control: Evidence for Ligand-Based Slowing of the Autocatalytic Surface Growth Step Plus Postulated Mechanisms**  
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- XXI. **Immobilized Polyoxomolybdate Nanoclusters on Functionalized SBA-15: Green Access to Efficient and Recyclable Nanocatalyst for the Epoxidation of Alkenes**  
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- XXVI. **Mesoporous MnCo<sub>2</sub>O<sub>4</sub> with efficient peroxidase mimetic activity for detection of H<sub>2</sub>O<sub>2</sub>**  
Vetr F., Moradi-Shoeili Z., ÖZKAR S.  
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- XXVII. **"Weakly Ligated, Labile Ligand" Nanoparticles: The Case of Ir(0)(n)center dot(H+Cl-)(m)**

Mondloch J. E. , ÖZKAR S., Finke R. G.

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**XXVIII. Ammonia borane as hydrogen storage materials**

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**XXIX. Preparation and characterization of a new CdS-NiFe<sub>2</sub>O<sub>4</sub>/reduced graphene oxide photocatalyst and its use for degradation of methylene blue under visible light irradiation**

Bagherzadeh M., Kaveh R., ÖZKAR S., AKBAYRAK S.

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**XXX. Oxidation of o-phenylenediamine to 2,3-diaminophenazine in the presence of cubic ferrites MFe<sub>2</sub>O<sub>4</sub> (M = Mn, Co, Ni, Zn) and the application in colorimetric detection of H<sub>2</sub>O<sub>2</sub>**

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**XXXI. Ceria supported manganese(0) nanoparticle catalysts for hydrogen generation from the hydrolysis of sodium borohydride**

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**XXXII. Ruthenium(0) nanoparticles supported on silica coated Fe<sub>3</sub>O<sub>4</sub> as magnetically separable catalysts for hydrolytic dehydrogenation of ammonia borane**

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**XXXIII. Synthesis, characterization, photophysical and electrochemical properties of a new non - planar perylene diimide with electron donating substituent**

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**XXXIV. Nanozirconia supported ruthenium(0) nanoparticles: Highly active and reusable catalyst in hydrolytic dehydrogenation of ammonia borane**

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**XXXV. Nanoceria-Supported Ruthenium(0) Nanoparticles: Highly Active and Stable Catalysts for Hydrogen Evolution from Water**

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**XXXVI. Nickel(0) nanoparticles supported on bare or coated cobalt ferrite as highly active, magnetically isolable and reusable catalyst for hydrolytic dehydrogenation of ammonia borane**

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**XXXVIII. Oxazine containing molybdenum(VI)-oxodiperoxo complex immobilized on SBA-15 as highly active and selective catalyst in the oxidation of alkenes to epoxides under solvent-free conditions**

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- MOLECULAR CATALYSIS, cilt.439, ss.50-59, 2017 (SCI İndekslerine Giren Dergi)
- XL. **A Classic Azo-Dye Agglomeration System: Evidence for Slow, Continuous Nucleation, Autocatalytic Agglomerative Growth, Plus the Effects of Dust Removal by Microfiltration on the Kinetics**  
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- XLI. **Nanoceria supported cobalt(0) nanoparticles: a magnetically separable and reusable catalyst in hydrogen generation from the hydrolysis of ammonia borane**  
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- XLII. **Nanotitania-Supported Rhodium(0) Nanoparticles: Superb Catalyst in Dehydrogenation of Dimethylamine Borane**  
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- XLIII. **Oleylamine-Stabilized Copper(0) Nanoparticles: An Efficient and Low-Cost Catalyst for the Dehydrogenation of Dimethylamine Borane**  
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- XLV. **Dust Effects on Nucleation Kinetics and Nanoparticle Product Size Distributions: Illustrative Case Study of a Prototype Ir(0)(n) Transition-Metal Nanoparticle Formation System**  
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- XLVI. **Nanoceria supported palladium(0) nanoparticles: Superb catalyst in dehydrogenation of formic acid at room temperature**  
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- XLVIII. **Enhanced reactivity in a heterogeneous oxido-peroxido molybdenum(VI) complex of salicylidene 2-picoloyl hydrazone in catalytic epoxidation of olefins**  
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- LIII. **Facile Synthesis of Three-Dimensional Pt-TiO<sub>2</sub> Nano-networks: A Highly Active Catalyst for the Hydrolytic Dehydrogenation of Ammonia-Borane**  
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- LV. **Palladium(0) nanoparticles supported on ceria: Highly active and reusable catalyst in hydrogen generation from the hydrolysis of ammonia borane**  
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- LVI. **Palladium(0) Nanoparticle Formation, Stabilization, and Mechanistic Studies: Pd(acac)<sub>2</sub> as a Preferred Precursor, [Bu<sub>4</sub>N]<sub>2</sub>HPO<sub>4</sub> Stabilizer, plus the Stoichiometry, Kinetics, and Minimal, Four-Step Mechanism of the Palladium Nanoparticle Formation and Subsequent Agglomeration Reactions**  
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- LVII. **Rhodium(0) nanoparticles supported on nanosilica: Highly active and long lived catalyst in hydrogen generation from the methanolysis of ammonia borane**  
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- LXII. **Synthesis, characterization, and catalytic activity of supported molybdenum Schiff base complex as a magnetically recoverable nanocatalyst in epoxidation reaction**  
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- LXIV. **Ruthenium catalyzed dehydrogenation and transfer hydrogenation reactions using dimethylamine borane as a hydrogen storage**  
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- LXXI. **A ruthenium(II) bipyridine complex containing a 4,5-diazafluorene moiety: Synthesis, characterization and its applications in transfer hydrogenation of ketones and dye sensitized solar cells**  
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