

## Personal Information

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## Advising Theses

- ÖZKAR S., Rhodium (0) nanoparticles supported on nano oxide crystalline materials: Preparation, characterization and catalytic use in hydrogen generation from the methanolysis of ammonia borane, Doctorate, D.ÖZHAVA(Student), 2018
- ÖZKAR S., Ruthenium nanoparticles supported on nanotubes/nanowires: Highly active and long lived nanocatalysts in hydrolytic dehydrogenation of ammonia borane, Doctorate, S.AKBAYRAK(Student), 2016
- ÖZKAR S., Ruthenium(0) nanoparticles supported on Hafnia: A highly active and long-lived catalyst in hydrolytic dehydrogenation of Ammonia Borane, Post Graduate, E.BETÜL(Student), 2016
- ÖZKAR S., Poly(N-vinyl-2-pyrrolidone) stabilized nickel(0) nanoparticles as catalyst for hydrogen generation from the methanolysis of ammonia borane, Post Graduate, N.ZÜLAY(Student), 2015
- ÖZKAR S., Ruthenium(0) nanoparticles supported on graphene: Preparation, characterization and catalytic use in hydrogen generation from hydrolysis of ammonia borane, Post Graduate, F.ASİYE(Student), 2015
- ÖZKAR S., Preparation and determination of catalytic activities of group 8 and group 9 metal ion-exchanged zeolite Y catalysts in decomposition of nitrous oxide to sole nitrogen and oxygen, Doctorate, P.EDİNÇ(Student), 2014
- ÖZKAR S., Poly(4-styrenesulfonic acid-co-maleic acid) stabilized nickel(0) nanoparticles: Highly active and cost effective catalyst in hydrogen generation from the hydrolysis of hydrazine borane, Post Graduate, S.ŞENCANLI(Student), 2013
- ÖZKAR S., Rhodium(0) nanoparticles supported on hydroxyapatite: Preparation, characterization and catalytic use in the hydrogen generation from the hydrolysis of hydrazine borane and ammonia borane, Post Graduate, D.ÇELİK(Student), 2012
- ÖZKAR S., Preparation and characterization of zeolite confined cobalt(0) nanoclusters as catalyst for hydrogen generation from the hydrolysis of sodium borohydride and ammonia borane, Doctorate, M.RAKAP(Student), 2011
- ÖZKAR S., One-pot synthesis and characterization of colloiddally robust rhodium(0) nanoparticles catalyst: Exceptional activity in the dehydrogenation of ammonia borane for chemical hydrogen storage, Post Graduate, T.AYVALI(Student), 2011
- ÖZKAR S., Water soluble polymer stabilized iron(0) nanoclusters: A cost effective and magnetically recoverable catalyst in hydrogen generation from the hydrolysis of ammonia borane, Post Graduate, M.DİNÇ(Student), 2011
- ÖZKAR S., Ruthenium(III) acetylacetonate as catalyst precursor in the dehydrogenation of dimethylamine-borane, Post Graduate, E.ÜNEL(Student), 2011
- ÖZKAR S., Synthesis and characterization of osmium(0) nanoclusters and their catalytic use in aerobic alcohol oxidation, Post Graduate, S.AKBAYRAK(Student), 2011
- ÖZKAR S., Synthesis and characterization of water soluble polymer stabilized transition metal(0) nanoclusters as catalyst in hydrogen generation from the hydrolysis of sodium borohydride and ammonia borane, Doctorate, Ö.METİN(Student), 2010
- ÖZKAR S., The preparation and characterization of zeolite confined rhodium(0) nanoclusters: A heterogeneous catalyst for the hydrogen generation from the methanolysis of ammonia-borane, Post Graduate, S.ÇALIŞKAN(Student), 2010
- ÖZKAR S., Homogeneous catalysts for the hydrolysis of sodium borohydride: Synthesis, characterization and catalytic use, Doctorate, M.MASJEDİ(Student), 2010
- ÖZKAR S., In-situ generation of poly(n-vinyl-2-pyrrolidone)-stabilized Palladium(0) and Ruthenium(0) nanoclusters as catalysts for hydrogen generation from the methanolysis of ammonia-borane, Post Graduate, H.ERDOĞAN(Student), 2010
- ÖZKAR S., The preparation and characterization of zeolite framework stabilized ruthenium(0) nanoclusters; a superb catalyst for the hydrolysis of sodium borohydride and the hydrogenation of aromatics under mild conditions, Doctorate, M.ZAHMAKIRAN(Student), 2010
- ÖZKAR S., Effect of stabilizer on the catalytic activity of cobalt(0) nanoclusters catalyst in the hydrolysis of sodium borohydride, Post Graduate, E.KOÇAK(Student), 2009
- ÖZKAR S., Testing the ruthenium(III) acetylacetonate and 1,2-bis(diphenylphosphino)ethane system as homogeneous catalyst in the hydrolysis of sodium borohydride, Post Graduate, T.DEMİRALP(Student), 2008

ÖZKAR S., Synthesis and characterization of hydrogenphosphate-stabilized nickel(0) nanoclusters as catalyst for the hydrolysis of sodium borohydride, Post Graduate, Ö.METİN(Student), 2006

ÖZKAR S., Ruthenium(III) acetylacetonate; A homogeneous catalyst in the hydrolysis of sodium borohydride, Post Graduate, E.KEÇELİ(Student), 2006

ÖZKAR S., Synthesis and characterization of pentacarbonylacryloylferrocenetungsten (0), Post Graduate, D.AYŞE(Student), 2006

ÖZKAR S., Synthesis and characterization of carbonyl-tungsten(0) complexes of [N,N'-bis(ferrocenylmethylene)ethylenediamine], Post Graduate, C.KAVAKLI(Student), 2005

ÖZKAR S., Synthesis and characterization of tetracarbonyl[6-ferrocenyl-2,2'-bipyridine]tungsten (0) complex, Post Graduate, P.EDİNÇ(Student), 2005

ÖZKAR S., Synthesis and characterization of tetracarbonyl[N-N'-bis(ferrocenylmethylene)ethylenediamine] molybdenum(0) complex, Post Graduate, F.SANEM(Student), 2005

ÖZKAR S., Zinc borate production in a batch reactor, Post Graduate, D.GÜRHAN(Student), 2005

ÖZKAR S., Tetracarbonyl [N,N'-bis(ferrocenylmethylene) ethylenediamine] chromium(0), Cr (CO)<sub>4</sub> (BFEDA): Synthesis and characterization, Post Graduate, C.AKYOL(Student), 2005

ÖZKAR S., Synthesis and characterization of ruthenium (0) nanoparticles as catalyst in the hydrolysis of sodium borohydride, Post Graduate, M.ZAHMAKIRAN(Student), 2005

KAYRAN İŞÇİ C., ÖZKAR S., Synthesis and characterization of tetracarbonylpyrazinetrimethylphosphitetungsten(0) complexes, Post Graduate, F.ALPER(Student), 2004

ÖZKAR S., Substitution kinetics of the pentacarbonylbis (trimethylsilyl) ethynetungsten (0) with triphenylbismuthine, Post Graduate, E.BAYRAM(Student), 2004

ÖZKAR S., Synthesis and characterization of tungsten carbonyl complexes containing an alkyne and a trialkylphosphine ligands, Post Graduate, O.DEMİRCAN(Student), 2002

ÖZKAR S., Synthesis and characterization of pentacarbonyl (vinylferrocene) metal (0) complexes (metal=chromium, molybdenum, tungsten), Post Graduate, N.DEMİR(Student), 2002

ÖZKAR S., Pentacarbonyl (2-ferrocenylpyridine) metal (0) complexes of group 6, Post Graduate, G.YAMAN(Student), 2002

ÖZKAR S., Synthesis and characterization of sodium chromium silicate pigment, Post Graduate, Ö.AŞKIN(Student), 2001

ÖZKAR S., Alkene and alkyne derivatives of group 6 metal carbonyls: Synthesis, structure and reactivity, Doctorate, S.SALDAMLİ(Student), 2001

ÖZKAR S., Kinetic study of the reaction between hydroxyl-terminated polybutadiene and isophorone diisocyanate in toluene by fourier transform infrared spectroscopy, Post Graduate, A.SERENAY(Student), 2000

KAYRAN İŞÇİ C., ÖZKAR S., Thermal catalytic hydrosilation of conjugated dienes with triethylsilane in the presence of tricarbonylarenemetal complexes (metal: chromium, molybdenum, tungsten), Post Graduate, P.ROUZİ(Student), 2000

ÖZKAR S., Thermal physical and curing characteristics of GAP based binders, Post Graduate, H.KAŞIKÇI(Student), 1999

ÖZKAR S., Kinetics of polyurethane formation reaction between glycidyl acide polymer (GAP) and desmodur N-100, Post Graduate, S.KESKİN(Student), 1999

ÖZKAR S., Substitution kinetics of cis-cyclooctene in pentacarbonyl (cis-cyclooctene) chromium (0) by tetracyanoethylene, Post Graduate, F.KOZANOĞLU(Student), 1999

ÖZKAR S., Substitution kinetics of norbornadiene in tetracarbonyl (norbornadiene) metal (zero) (metal: chromium, molybdenum, tungsten) by Bis(diphenylphosphino) alkane, Doctorate, A.TEKKAYA(Student), 1997

ÖZKAR S., Crystallization of ammonium perchlorate, Post Graduate, S.TANRIKULU(Student), 1997

ÖZKAR S., Substitution kinetics of cyclooctadiene in tetracarbonyl (cyclooctadiene) molybdenum (zero) by tetraalkyl diphosphinedisulfide, Post Graduate, Ö.ÖZTÜRK(Student), 1997

ÖZKAR S., Synthesis and electrochemistry of tricarbonyl cyclooctatetraenemetal (0) complexes of group 6 elements, Post Graduate, G.ATINÇ(Student), 1996

ÖZKAR S., Synthesis of the new burning rate modifier for lampasite rocket propellants, Post Graduate, A.AKKAYA(Student), 1996

ÖZKAR S., Synthesis and electrochemical study of tetracarbonyl (n<sub>1</sub>:diene) metal (0) complexes of the group viii elements, Post Graduate, A.AYGÜNEY(Student), 1993

ÖZKAR S., Substitution kinetics of tetracarbonyl (n<sub>4</sub>-1,5-cyclooctadiene) molybdenum (0) by bis (diphenylphosphino)

methane, Post Graduate, A.TEKKAYA(Student), 1993

ÖZKAR S., Synthesis, stereochemistry and reactivity of diimine-carbonylmetal (o) complexes of 6B elements, Doctorate, C.KAYRAN(Student), 1991

ÖZKAR S., Synthesis of -bis (dialkylphosphino) alkanebis (pentacarbonylmetal (o)) complexes of the 6B-elements, Doctorate, Z.ÖZER(Student), 1990

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

- **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**  
Lale A., Mallmann M. D. , Tada S., Bruma A., ÖZKAR S., Kumar R., Haneda M., Machado R. A. F. , Iwamoto Y., Demirci U. B. , et al.  
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.272, 2020 (Journal Indexed in SCI)
- **Ceria Supported Nickel(0) Nanoparticles: A Highly Active and Low Cost Electrocatalyst for Hydrogen Evolution Reaction**  
DEMİR ARABACI E., ÖNAL A. M. , ÖZKAR S.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.167, 2020 (Journal Indexed in SCI)
- **Magnetically Separable Rh-0/Co<sub>3</sub>O<sub>4</sub> Nanocatalyst Provides over a Million Turnovers in Hydrogen Release from Ammonia Borane**  
Akbayrak S., Tonbul Y., ÖZKAR S.  
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.8, pp.4216-4224, 2020 (Journal Indexed in SCI)
- **Transition metal nanoparticle catalysts in releasing hydrogen from the methanolysis of ammonia borane**  
ÖZKAR S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, pp.7881-7891, 2020 (Journal Indexed in SCI)
- **Synthesis of zinc borate using water soluble additives: Kinetics and product characterization**  
ÇAKAL G. Ö. , Baltacı B., BAYRAM G., ÖZKAR S., EROĞLU İ.  
JOURNAL OF CRYSTAL GROWTH, vol.533, 2020 (Journal Indexed in SCI)
- **Particle Size Distributions via Mechanism-Enabled Population Balance Modeling**  
Handwerk D. R. , Shipman P. D. , Whitehead C. B. , ÖZKAR S., Finke R. G.  
JOURNAL OF PHYSICAL CHEMISTRY C, vol.124, pp.4852-4880, 2020 (Journal Indexed in SCI)
- **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**  
Handwerk D. R. , Shipman P. D. , ÖZKAR S., Finke R. G.  
LANGMUIR, vol.36, pp.1496-1506, 2020 (Journal Indexed in SCI)
- **Mechanism-Enabled Population Balance Modeling of Particle Formation en Route to Particle Average Size and Size Distribution Understanding and Control**  
Handwerk D. R. , Shipman P. D. , Whitehead C. B. , ÖZKAR S., Finke R. G.  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.141, pp.15827-15839, 2019 (Journal Indexed in SCI)
- **Ceria supported ruthenium nanoparticles: Remarkable catalyst for H<sub>2</sub> evolution from dimethylamine borane**  
KARABOĞA S., ÖZKAR S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, pp.26296-26307, 2019 (Journal Indexed in SCI)
- **Magnetically separable rhodium nanoparticles as catalysts for releasing hydrogen from the hydrolysis of ammonia borane**  
Tonbul Y., Akbayrak S., ÖZKAR S.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.553, pp.581-587, 2019 (Journal Indexed in SCI)
- **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**  
Whitehead C. B. , ÖZKAR S., Finke R. G.  
CHEMISTRY OF MATERIALS, vol.31, pp.7116-7132, 2019 (Journal Indexed in SCI)
- **Nanoalumina supported palladium(0) nanoparticle catalyst for releasing H<sub>2</sub> from dimethylamine borane**

KARABOĞA S., ÖZKAR S.

APPLIED SURFACE SCIENCE, vol.487, pp.433-441, 2019 (Journal Indexed in SCI)

- **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**  
ÖZKAR S., Finke R. G.  
JOURNAL OF PHYSICAL CHEMISTRY C, vol.123, pp.14047-14057, 2019 (Journal Indexed in SCI)
- **Immobilized Polyoxomolybdate Nanoclusters on Functionalized SBA-15: Green Access to Efficient and Recyclable Nanocatalyst for the Epoxidation of Alkenes**  
Bagherzadeh M., Hosseini H., AKBAYRAK S., ÖZKAR S.  
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- **Group 4 oxides supported Rhodium(0) catalysts in hydrolytic dehydrogenation of ammonia borane**  
Tonbul Y., Akbayrak S., ÖZKAR S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, pp.14164-14174, 2019 (Journal Indexed in SCI)
- **Ceria supported ruthenium(0) nanoparticles: Highly efficient catalysts in oxygen evolution reaction**  
DEMİR ARABACI E., AKBAYRAK S., ÖNAL A. M. , ÖZKAR S.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.534, pp.704-710, 2019 (Journal Indexed in SCI)
- **Nanoceria supported rhodium(0) nanoparticles as catalyst for hydrogen generation from methanolysis of ammonia borane**  
Ozhava D., ÖZKAR S.  
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.237, pp.1012-1020, 2018 (Journal Indexed in SCI)
- **Mesoporous MnCo2O4 with efficient peroxidase mimetic activity for detection of H2O2**  
Vetr F., Moradi-Shoeili Z., ÖZKAR S.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.98, pp.184-191, 2018 (Journal Indexed in SCI)
- **Titania, zirconia and hafnia supported ruthenium(0) nanoparticles: Highly active hydrogen evolution catalysts**  
DEMİR ARABACI E., AKBAYRAK S., ÖNAL A. M. , ÖZKAR S.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.531, pp.570-577, 2018 (Journal Indexed in SCI)
- **"Weakly Ligated, Labile Ligand" Nanoparticles: The Case of Ir(0)(n)center dot(H+Cl)-(m)**  
Mondloch J. E. , ÖZKAR S., Finke R. G.  
ACS OMEGA, vol.3, pp.14538-14550, 2018 (Journal Indexed in SCI)
- **Ammonia borane as hydrogen storage materials**  
AKBAYRAK S., ÖZKAR S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, pp.18592-18606, 2018 (Journal Indexed in SCI)
- **Preparation and characterization of a new CdS-NiFe2O4/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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- **Oxidation of o-phenylenediamine to 2,3-diaminophenazine in the presence of cubic ferrites MFe2O4 (M = Mn, Co, Ni, Zn) and the application in colorimetric detection of H2O2**  
Vetr F., Moradi-Shoeili Z., ÖZKAR S.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.32, 2018 (Journal Indexed in SCI)
- **Ceria supported manganese(0) nanoparticle catalysts for hydrogen generation from the hydrolysis of sodium borohydride**  
DUMAN S., ÖZKAR S.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, pp.15262-15274, 2018 (Journal Indexed in SCI)
- **Ruthenium(0) nanoparticles supported on silica coated Fe3O4 as magnetically separable catalysts for hydrolytic dehydrogenation of ammonia borane**  
Sarica E., AKBAYRAK S., ÖZKAR S.  
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- **Synthesis, characterization, photophysical and electrochemical properties of a new non - planar perylene diimide with electron donating substituent**  
Mostafanejad S. M. , Bodapati J. B. , ÖZKAR S., İCİL H.

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- **Nanozirconia supported ruthenium(0) nanoparticles: Highly active and reusable catalyst in hydrolytic dehydrogenation of ammonia borane**  
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- **Nickel(0) nanoparticles supported on bare or coated cobalt ferrite as highly active, magnetically isolable and reusable catalyst for hydrolytic dehydrogenation of ammonia borane**  
Manna J., AKBAYRAK S., ÖZKAR S.  
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- **Silver Nanoparticles Synthesized by Microwave Heating: A Kinetic and Mechanistic Re-Analysis and Re-Interpretation**  
ÖZKAR S., Finke R. G.  
JOURNAL OF PHYSICAL CHEMISTRY C, vol.121, pp.27643-27654, 2017 (Journal Indexed in SCI)
- **Nanoalumina-supported rhodium(0) nanoparticles as catalyst in hydrogen generation from the methanolysis of ammonia borane**  
Ozhava D., ÖZKAR S.  
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- **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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- **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**  
ÖZKAR S., Finke R. G.  
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- **Nanoceria supported cobalt(0) nanoparticles: a magnetically separable and reusable catalyst in hydrogen generation from the hydrolysis of ammonia borane**  
AKBAYRAK S., TANEROĞLU O., ÖZKAR S.  
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- **Nanotitania-Supported Rhodium(0) Nanoparticles: Superb Catalyst in Dehydrogenation of Dimethylamine Borane**  
Tanyildizi S., MORKAN İ., ÖZKAR S.  
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- **Oleylamine-Stabilized Copper(0) Nanoparticles: An Efficient and Low-Cost Catalyst for the Dehydrogenation of Dimethylamine Borane**  
DUMAN S., ÖZKAR S.  
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- **Palladium(0) nanoparticles supported on polydopamine coated CoFe<sub>2</sub>O<sub>4</sub> as highly active, magnetically isolable and reusable catalyst for hydrogen generation from the hydrolysis of ammonia borane**  
Manna J., Akbayrak S., ÖZKAR S.  
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- **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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- **Nanoceria supported palladium(0) nanoparticles: Superb catalyst in dehydrogenation of formic acid at room temperature**  
Akbayrak S., TONBUL Y., ÖZKAR S.  
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- **Ceria supported copper(0) nanoparticles as efficient and cost-effective catalyst for the dehydrogenation of dimethylamine borane**  
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- Enhanced reactivity in a heterogeneous oxido-peroxido molybdenum(VI) complex of salicylidene 2-picoloyl hydrazone in catalytic epoxidation of olefins**  
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- Nanoparticle Nucleation Is Termolecular in Metal and Involves Hydrogen: Evidence for a Kinetically Effective Nucleus of Three {Ir<sub>3</sub>H<sub>2</sub>x center dot P<sub>2</sub>W<sub>15</sub>Nb<sub>3</sub>O<sub>62</sub>}(6-) in Ir(0)(n) Nanoparticle Formation From [(1,5-COD)Ir-I center dot P<sub>2</sub>W<sub>15</sub>Nb<sub>3</sub>O<sub>62</sub>](8-) Plus Dihydrogen**  
 ÖZKAR S., Finke R. G.  
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- Ruthenium(0) nanoparticles supported on nanohafnia: A highly active and long-lived catalyst in hydrolytic dehydrogenation of ammonia borane**  
 Kalkan E. B. , Akbayrak S., ÖZKAR S.  
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- Ceria supported rhodium nanoparticles: Superb catalytic activity in hydrogen generation from the hydrolysis of ammonia borane**  
 Akbayrak S., Tonbul Y., ÖZKAR S.  
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- Inverse relation between the catalytic activity and catalyst concentration for the ruthenium(0) nanoparticles supported on xonotlite nanowire in hydrogen generation from the hydrolysis of sodium borohydride**  
 Akbayrak S., ÖZKAR S.  
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- Facile Synthesis of Three-Dimensional Pt-TiO<sub>2</sub> Nano-networks: A Highly Active Catalyst for the Hydrolytic Dehydrogenation of Ammonia-Borane**  
 Khalily M. A. , Eren H., Akbayrak S., Susapto H. H. , BIYKLIN., ÖZKAR S., GÜLER M. Ö.  
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- Palladium(0) Nanoparticle Formation, Stabilization, and Mechanistic Studies: Pd(acac)(2) as a Preferred Precursor, [Bu<sub>4</sub>N](2)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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- 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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- Synthesis, characterization, and catalytic activity of supported molybdenum Schiff base complex as a magnetically recoverable nanocatalyst in epoxidation reaction**  
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 JOURNAL OF COORDINATION CHEMISTRY, vol.69, pp.668-677, 2016 (Journal Indexed in SCI)
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