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International Researcher IDs

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Research Areas

Inorganic Chemistry, Catalysis, Coordination Chemistry, Metal olefin complexes, Solid-State Chemistry, Organometallic Chemistry, Natural Sciences

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1988 - Continues
Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1982 - 1988

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1979 - 1982

Advising Theses

ÖZKAR S., Ruthenium(0) nanoparticles supported on bare or silica coated ferrite as highly active, magnetically isolable and reusable catalyst for hydrogen generation from the hydrolysis of ammonia borane, Postgraduate, E.Sarıca(Student), 2019

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., 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(0) nanoparticles supported on Hafnia: A highly active and long-lived catalyst in hydrolytic dehydrogenation of Ammonia Borane, Postgraduate, E.BETÜL(Student), 2016

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 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 graphene: Preparation, characterization and catalytic use in

hydrogen generation from hydrolysis of ammonia borane, Postgraduate, F.ASİYE(Student), 2015

ÖZKAR S., Poly(N-vinyl-2-pyrrolidone) stabilized nickel(0) nanoparticles as catalyst for hydrogen generation from the methanolysis of ammonia borane, Postgraduate, N.ZÜLAY(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., 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.Edinç(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, Postgraduate, S.ŞENCANLI(Student), 2013

ÖZKAR S., Rhodium(0) nanoparticles supported on hydroxyapatite: preparation, characterization and catalytic use in hydrogen generation from hydrolysis of hydrazine borane and ammonia borane, Postgraduate, D.Çelik(Student), 2012

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, Postgraduate, D.ÇELİK(Student), 2012

ÖZKAR S., Synthesis and characterization of osmium(0) nanoclusters and their catalytic use in aerobic alcohol oxidation, Postgraduate, S.AKBAYRAK(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, Postgraduate, T.AYVALI(Student), 2011

ÖZKAR S., Ruthenium(III) acetylacetonate as catalyst precursor in the dehydrogenation of dimethylamine-borane, Postgraduate, E.ÜNEL(Student), 2011

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., Water soluble polymer stabilized iron(0) nanoclusters: A cost effective and magnetically recoverable catalyst in hydrogen generation from the hydrolysis of ammonia borane, Postgraduate, M.DİNÇ(Student), 2011

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, Postgraduate, H.ERDOĞAN(Student), 2010

ÖZKAR S., Homogeneous catalysts for the hydrolysis of sodium borohydride: Synthesis, characterization and catalytic use, Doctorate, M.MASJEDİ(Student), 2010

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, Postgraduate, S.ÇALIŞKAN(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, Postgraduate, E.KOÇAK(Student), 2009

ÖZKAR S., Effect of stabilizer on the catalytic activity of Kobalt(0) Nanoclusters catalyst in the hydrolysis of Sodium Borohydride, Postgraduate, 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, Postgraduate, T.DEMİRALP(Student), 2008

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

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

ÖZKAR S., Synthesis and characterization of Pentacarbonylacryloylferrocenetungsten(0) complex, Postgraduate, D.Ayşe(Student), 2006

ÖZKAR S., Synthesis and characterization of hydrogenphosphate-stabilized nızkel(0) nanoclusters as catalyst for the

hydrolysis of sodium borohydride, Postgraduate, Ö.Metin(Student), 2006

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

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

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

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

ÖZKAR S., Tetracarbonyl(N,N'-bis(ferrocenylmethlene) ethylenediamine) chromium(0), Cr(CO)₄(bfeda): synthesis and characterization, Postgraduate, C.Akyol(Student), 2005

ÖZKAR S., Synthesis and characterization tetracarbonyl[n,n'-bis(ferrocenylmethylene ethylenediamine] molybdenum(0) complex, Postgraduate, F.Sanem(Student), 2005

ÖZKAR S., Synthesis and characterization carbonyl-tungsten(0)complexes [n,n'-bis(ferrocenylmethylene) ethylenediamine], Postgraduate, C.Kavaklı(Student), 2005

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

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

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

ÖZKAR S., Synthesis and characterization of ruthenium(0) metal nanoparticles as catalyst in the hydrolysis of sodium borohydride, Postgraduate, M.Zahmakıran(Student), 2005

ÖZKAR S., Synthesis and characterization of tetracarbonyl(6-ferrocenyl-2.2'-bipyridine)tungsten(0) complex, Postgraduate, P.Edinç(Student), 2005

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

ÖZKAR S., Substitution kinetics of the pentacarbonylbis (trimethylsilyl) ethylenetungsten (0) with triphenylbismuthine, Postgraduate, E.BAYRAM(Student), 2004

ÖZKAR S., Substitution kinetics of the pentacarbonylbis(trimethylsilyl)ethylenetungsten(0) with triphenylbismuthine, Postgraduate, E.Bayram(Student), 2004

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

ÖZKAR S., Synthesis and characterization of pentacarbonyl (vinylferrocene) metal (0) complexes : (Metal:chromium, molybdenum, tungsten), Postgraduate, N.Demir(Student), 2002

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

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

ÖZKAR S., Pentacarbonyl (2-ferrocenylpyridine) metal (0) complexes of group 6, Postgraduate, G.Yaman(Student), 2002

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

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

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

ÖZKAR S., Kinetic study of the reaction between Hydroxyl terminated Polybutadiene and Isophorone Diisocyanate in Toluene by Fourier transform infrared spectroscopy, Postgraduate, A.Serenay(Student), 2000

Özkar S., Kayran İşçi C., Thermal catalytic hydrosilation of conjugated dienes with triethylsilane in the presence of tricarbonylarenemetal complexes (metal: chromium, molybdenum, tungsten), Postgraduate, P.ROUZİ(Student), 2000

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

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

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

ÖZKAR S., Kinetics of polyurethane formation reaction between glycidyl azide polymer (GAP) and desmodur N-100, Postgraduate, S.Keskin(Student), 1999

ÖZKAR S., Substitution kinetics of CIS-Cyclooctene in pentacarbonyl (CIS-Cyclooctene) Chromium(0) by tetracyanoethylene, Postgraduate, 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., Substitution kinetics of norbornadiene in tetracarbonyl (norbornadiene) metal (zero) (metal : chromium, molybdenum, tungsten) by bis (diphenylphosphino) alkane, Doctorate, A.Tekkaya(Student), 1997

EROĞLU İ., ÖZKAR S., Crystallization of ammonium perchlorate, Postgraduate, S.Ündal(Student), 1997

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

ÖZKAR S., Substitution kinetics of cyclooctadiene in tetracarbonyl (cyclooctadiene) molybdenum(zero) by tetraalkyldiphosphinedisulfide, Postgraduate, Ö.Öztürk(Student), 1997

ÖZKAR S., Substitution kinetics of cyclooctadiene in tetracarbonyl (cyclooctadiene) molybdenum (zero) by tetraalkyldiphosphinedisulfide, Postgraduate, Ö.ÖZTÜRK(Student), 1997

YILMAZER Ü., ÖZKAR S., Thermal and mechanical properties of rocket motor liners, Postgraduate, S.Benli(Student), 1997

ÖZKAR S., Synthesis and electrochemical study of tricarbonylcyclooctatetraene metal (0) complexes of the group 6 elements, Postgraduate, G.Atınc(Student), 1996

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

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

BAYRAMLI E., ÖZKAR S., An investigation of the liner-propellant interface in HTPB solid rocket fuels, Postgraduate, S.Burak(Student), 1995

EROĞLU İ., ÖZKAR S., Synthesis of ammonium perchlorate, Postgraduate, A.Kadir(Student), 1995

ÖZKAR S., Substitution kinetics of cyclooctadiene in tetracarbonyl(cyclooctadiene) metal (zero)metal chromium, molybdenum, tungsten) by bis (diphenylphosphino) methane, Postgraduate, S.Saldamlı(Student), 1995

ÖZKAR S., Substitution kinetics of tetracarbonyl (n4-1,5-cyclooctadiene) molybdenum (0) by bis (diphenylphosphino) methane, Postgraduate, A.TEKKAYA(Student), 1993

ÖZKAR S., Synthesis and electrochemical study of tetracarbonyl (n1:1-diene) metal (o) complexes of the group vib elements, Postgraduate, A.AYGÜNEY(Student), 1993

ÖZKAR S., Synthesis and electrochemical study of tetracarbonyl-(n2:2-diene) metal (0) complexes of the group vib elements, Postgraduate, A.Aygüney(Student), 1993

ÖZKAR S., İŞÇİ H., Synthesis and spectroscopic investigations of some carbonyl-olefin-metal (0) complexes of group 6B elements, Doctorate, İ.A(Student), 1992

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

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

ÖZKAR S., Synthesis of u-bis(dialkylphosphino) alkane-bis(pentacarbonylmetal(0)) complexes of the 6B-elements, Doctorate, Z.Özer(Student), 1990

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Oxide coated nickel powder as support for platinum(0) nanoparticles: Magnetically separable catalysts for hydrogen generation from the hydrolysis of ammonia borane**
Akbarak S., Çakmak G., ÖZTÜRK T., ÖZKAR S.

Journal of Alloys and Compounds, vol.1002, 2024 (SCI-Expanded)

- II. **Increasing the catalytic efficiency of rhodium(0) nanoparticles in hydrolytic dehydrogenation of ammonia borane**
ÖZKAR S.
International Journal of Hydrogen Energy, vol.54, pp.327-343, 2024 (SCI-Expanded)
- III. **Nanotitania supported ruthenium(0) nanoparticles as active catalyst for releasing hydrogen from dimethylamine borane**
Hammoodi Yousif Al-Areedhee A., Karaboğa S., Morkan İ. A., ÖZKAR S.
International Journal of Hydrogen Energy, vol.51, pp.1097-1108, 2024 (SCI-Expanded)
- IV. **Giant, Submicron Size, Yet Nearly Uniform Ir₀~30,000,000 Particles: Synthesis, "Raspberry" Structure, and Resultant Insights into Their Mechanism of Formation**
ÖZKAR S., MacHale L. T., Finke R. G.
Journal of Physical Chemistry C, vol.127, no.48, pp.23258-23269, 2023 (SCI-Expanded)
- V. **Reducible tungsten(VI) oxide-supported ruthenium(0) nanoparticles: highly active catalyst for hydrolytic dehydrogenation of ammonia borane**
Akbarak S., Tonbul Y., ÖZKAR S.
Turkish Journal of Chemistry, vol.47, no.5, pp.1224-1238, 2023 (SCI-Expanded)
- VI. **How to increase the catalytic efficacy of platinum-based nanocatalysts for hydrogen generation from the hydrolysis of ammonia borane**
ÖZKAR S.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.15, pp.22089-22099, 2022 (SCI-Expanded)
- VII. **Palladium nanoparticles supported on cobalt(II,III) oxide nanocatalyst: High reusability and outstanding catalytic activity in hydrolytic dehydrogenation of ammonia borane**
Akbarak S., oezkar S.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.626, pp.752-758, 2022 (SCI-Expanded)
- VIII. **A review of the catalytic conversion of glycerol to lactic acid in the presence of aqueous base**
AKBULUT D., ÖZKAR S.
RSC ADVANCES, vol.12, no.29, pp.18864-18883, 2022 (SCI-Expanded)
- IX. **A review on platinum(0) nanocatalysts for hydrogen generation from the hydrolysis of ammonia borane**
ÖZKAR S.
DALTON TRANSACTIONS, vol.50, pp.12349-12364, 2021 (SCI-Expanded)
- X. **Recent advances in heterogeneous catalysts for the effective electroreduction of carbon dioxide to carbon monoxide**
Eren E. O., ÖZKAR S.
Journal of Power Sources, vol.506, 2021 (SCI-Expanded)
- XI. **Cobalt ferrite supported platinum nanoparticles: Superb catalytic activity and outstanding reusability in hydrogen generation from the hydrolysis of ammonia borane**
Akbarak S., ÖZKAR S.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.596, pp.100-107, 2021 (SCI-Expanded)
- XII. **Magnetically Isolable Pt₀/Co₃O₄ Nanocatalysts: Outstanding Catalytic Activity and High Reusability in Hydrolytic Dehydrogenation of Ammonia Borane**
Akbarak S., ÖZKAR S.
ACS Applied Materials and Interfaces, vol.13, no.29, pp.34341-34348, 2021 (SCI-Expanded)
- XIII. **Magnetically separable transition metal nanoparticles as catalysts in hydrogen generation from the hydrolysis of ammonia borane**
ÖZKAR S.
International Journal of Hydrogen Energy, vol.46, no.41, pp.21383-21400, 2021 (SCI-Expanded)
- XIV. **Rhodium(0), Ruthenium(0) and Palladium(0) nanoparticles supported on carbon-coated iron: Magnetically isolable and reusable catalysts for hydrolytic dehydrogenation of ammonia borane**
Akbarak S., ÇAKMAK G., ÖZTÜRK T., ÖZKAR S.

- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.25, pp.13548-13560, 2021 (SCI-Expanded)
- XV. **Tungsten(VI) oxide supported rhodium nanoparticles: Highly active catalysts in hydrogen generation from ammonia borane**
Akbarak S., Tonbul Y., ÖZKAR S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.27, pp.14259-14269, 2021 (SCI-Expanded)
- XVI. **Highly active, robust and reusable micro-/mesoporous TiN/Si₃N₄ nanocomposite-based catalysts for clean energy: Understanding the key role of TiN nanoclusters and amorphous Si₃N₄ 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 (SCI-Expanded)
- XVII. **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, no.10, 2020 (SCI-Expanded)
- XVIII. **Magnetically Separable Rh-0/Co₃O₄ Nanocatalyst Provides over a Million Turnovers in Hydrogen Release from Ammonia Borane**
Akbarak S., Tonbul Y., ÖZKAR S.
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.8, no.10, pp.4216-4224, 2020 (SCI-Expanded)
- XIX. **Transition metal nanoparticle catalysts in releasing hydrogen from the methanolysis of ammonia borane**
ÖZKAR S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, no.14, pp.7881-7891, 2020 (SCI-Expanded)
- XX. **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 (SCI-Expanded)
- XXI. **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, no.8, pp.4852-4880, 2020 (SCI-Expanded)
- XXII. **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, no.6, pp.1496-1506, 2020 (SCI-Expanded)
- XXIII. **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, no.40, pp.15827-15839, 2019 (SCI-Expanded)
- XXIV. **Ceria supported ruthenium nanoparticles: Remarkable catalyst for H₂ evolution from dimethylamine borane**
KARABOĞA S., ÖZKAR S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.48, pp.26296-26307, 2019 (SCI-Expanded)
- XXV. **Magnetically separable rhodium nanoparticles as catalysts for releasing hydrogen from the hydrolysis of ammonia borane**
Tonbul Y., Akbarak S., ÖZKAR S.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.553, pp.581-587, 2019 (SCI-Expanded)
- XXVI. **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, no.18, pp.7116-7132, 2019 (SCI-Expanded)
- XXVII. **Nanoalumina supported palladium(0) nanoparticle catalyst for releasing H₂ from dimethylamine**

borane

KARABOĞA S., ÖZKAR S.

APPLIED SURFACE SCIENCE, vol.487, pp.433-441, 2019 (SCI-Expanded)

- XXVIII. **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, no.22, pp.14047-14057, 2019 (SCI-Expanded)
- XXIX. **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.
CHEMISTRYSELECT, vol.4, no.19, pp.5911-5917, 2019 (SCI-Expanded)
- XXX. **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, no.27, pp.14164-14174, 2019 (SCI-Expanded)
- XXXI. **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 (SCI-Expanded)
- XXXII. **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 (SCI-Expanded)
- XXXIII. **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 (SCI-Expanded)
- XXXIV. **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 (SCI-Expanded)
- XXXV. **"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, no.11, pp.14538-14550, 2018 (SCI-Expanded)
- XXXVI. **Ammonia borane as hydrogen storage materials**
AKBAYRAK S., ÖZKAR S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.40, pp.18592-18606, 2018 (SCI-Expanded)
- XXXVII. **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.
RESEARCH ON CHEMICAL INTERMEDIATES, vol.44, no.10, pp.5953-5979, 2018 (SCI-Expanded)
- XXXVIII. **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, no.9, 2018 (SCI-Expanded)
- XXXIX. **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, no.32, pp.15262-15274, 2018 (SCI-Expanded)
- XL. **Ruthenium(0) nanoparticles supported on silica coated Fe₃O₄ as magnetically separable catalysts for hydrolytic dehydrogenation of ammonia borane**
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Metrics

Publication: 328

Citation (WoS): 12049

Citation (Scopus): 9841

H-Index (WoS): 61

H-Index (Scopus): 56

Non Academic Experience

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