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Education Information

Doctorate, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Turkey 2009 - 2016

Undergraduate, Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, Turkey 2005 - 2009

Dissertations

Doctorate, Aktivitesi kontrol edilebilir yeni rutenyum komplekslerinin sentezi, karakterizasyonu ve katalitik uygulamaları, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 2016

Research Areas

Chemistry, Inorganic Chemistry, Catalysis, Metal Carbene Complexes, Metal olefin complexes, Organometallic Chemistry, Novel Ligands, Organic Chemistry, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2019 - Continues

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2011 - 2019

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

- I. **One-pot synthesis of alpha,beta-unsaturated ketones through sequential alkyne dimerization/hydration reactions using the Hoveyda-Grubbs catalyst**
ÖZTÜRK B. Ö. , Sariaslan B., Askun M., Tunali Z., KARABULUT ŞEHİTOĞLU S.
NEW JOURNAL OF CHEMISTRY, 2021 (Journal Indexed in SCI)
- II. **A non-ionic surfactant based catalyst tablet: a reusable gold-NHC catalyst system for alkyne hydration reactions**
Durmus B., Tunali Z., ÖZTÜRK B. Ö.
CATALYSIS SCIENCE & TECHNOLOGY, vol.11, pp.3880-3884, 2021 (Journal Indexed in SCI)
- III. **Dehydrogenative alcohol coupling and one-pot cross metathesis/dehydrogenative coupling reactions of alcohols using Hoveyda-Grubbs catalysts**
Ozer H., Arslan D., ÖZTÜRK B. Ö.
NEW JOURNAL OF CHEMISTRY, vol.45, no.13, pp.5992-6000, 2021 (Journal Indexed in SCI)
- IV. **Encapsulation of N-heterocyclic carbene-gold (I) catalysts within magnetic core/shell silica gels: A reusable alkyne hydration catalyst**

ÖZTÜRK B. Ö. , Cetinel B., KARABULUT ŞEHİTOĞLU S.

APPLIED ORGANOMETALLIC CHEMISTRY, vol.34, no.9, 2020 (Journal Indexed in SCI)

- V. **Transfer-hydrogenation reactions of ketones/aldehydes in water using first generation ruthenium indenylidene olefin metathesis catalyst: One step towards sequential cross-metathesis/transfer hydrogenation reactions**
ÖZTÜRK B. Ö. , ÖZTÜRK S.
Molecular Catalysis, vol.480, 2020 (Journal Indexed in SCI)
- VI. **Pyrene substituted amphiphilic ROMP polymers as nano-sized fluorescence sensors for detection of TNT in water**
ÖZTÜRK B. Ö. , Şehitoğlu S. K.
Polymer, vol.183, 2019 (Journal Indexed in SCI)
- VII. **Carboxylic acid addition to terminal alkynes utilizing ammonium tagged Hoveyda-Grubbs catalyst supported on magnetically separable core/shell silica: A highly reusable and air compatible catalytic system**
ÖZTÜRK B. Ö. , Gurcu D., Sehitoglu S. K.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.883, pp.11-16, 2019 (Journal Indexed in SCI)
- VIII. **Olefin metathesis in air using latent ruthenium catalysts: imidazole substituted amphiphilic hydrogenated ROMP polymers providing nano-sized reaction spaces in water**
ÖZTÜRK B. Ö. , Durmus B., Sehitoglu S. K.
CATALYSIS SCIENCE & TECHNOLOGY, vol.8, no.22, pp.5807-5815, 2018 (Journal Indexed in SCI)
- IX. **Ammonium tagged Hoveyda-Grubbs catalysts immobilized on magnetically separable core-shell silica supports for ring-closing metathesis reactions**
ÖZTÜRK B. Ö.
MICROPOROUS AND MESOPOROUS MATERIALS, vol.267, pp.249-256, 2018 (Journal Indexed in SCI)
- X. **Imidazole end-functionalized polycyclooctenes from chain-transfer ring-opening metathesis polymerization and aminolysis reactions**
ÖZTÜRK B. Ö. , Calisgan G., Ozer H., Sehitoglu S. K.
REACTIVE & FUNCTIONAL POLYMERS, vol.126, pp.63-73, 2018 (Journal Indexed in SCI)
- XI. **Nonaqueous and Aqueous Emulsion ROMP Reactions Induced by Environment-Friendly Latent Ruthenium Indenylidene Catalyst Bearing Morpholine Substituted Bidentate (N, O) Schiff Bases**
ÖZTÜRK B. Ö. , Kolberg A., Sehitoglu S. K.
MACROMOLECULAR CHEMISTRY AND PHYSICS, vol.218, no.9, 2017 (Journal Indexed in SCI)
- XII. **Imidazole-substituted ROMP polymers: Post-modification of poly(norbornenediester) derivatives with aminolysis reactions**
ÖZTÜRK B. Ö. , Yakut E., Ak E., Sehitoglu S. K.
REACTIVE & FUNCTIONAL POLYMERS, vol.111, pp.22-29, 2017 (Journal Indexed in SCI)
- XIII. **Improved molecular weight control in ring-opening metathesis polymerization reactions in organic and aqueous media using N-heterocyclic carbene-ruthenium arene/alkyne catalyst systems**
ÖZTÜRK B. Ö. , Sehitoglu S. K.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.30, no.5, pp.367-372, 2016 (Journal Indexed in SCI)
- XIV. **Tuning the molecular weight of ROMP polymers by using Grubbs type catalysts and terminal alkynes**
ÖZTÜRK B. Ö. , Sariaslan B., KARABULUT ŞEHİTOĞLU S.
Journal of Organometallic Chemistry, vol.822, pp.13-19, 2016 (Journal Indexed in SCI)
- XV. **Applications of ruthenium indenylidene catalysts on ROMP-based self-healing epoxy systems**
ÖZTÜRK B. Ö. , Şehitoğlu S. K.
Polymer, vol.69, pp.343-348, 2015 (Journal Indexed in SCI)
- XVI. **Metathesis reactions of rapeseed oil-derived fatty acid methyl esters induced by monometallic and homobimetallic ruthenium complexes**
ÖZTÜRK B. Ö. , TOPOĞLU B., Sehitoglu S. K.
EUROPEAN JOURNAL OF LIPID SCIENCE AND TECHNOLOGY, vol.117, no.2, pp.200-208, 2015 (Journal Indexed in SCI)

- XVII. **A latent and controllable ruthenium-indenylidene catalyst for emulsion ROMP in water**
 ÖZTÜRK B. Ö. , Sehitoglu S. K. , MEIER M. A. R.
 EUROPEAN POLYMER JOURNAL, vol.62, pp.116-123, 2015 (Journal Indexed in SCI)
- XVIII. **Highly controllable poly(N-vinylimidazole)-supported ruthenium catalysts for olefin metathesis reactions in aqueous media**
 ÖZTÜRK B. Ö. , SARIASLAN B., Bayramgil N. P. , Sehitoglu S.
 APPLIED CATALYSIS A-GENERAL, vol.483, pp.19-24, 2014 (Journal Indexed in SCI)
- XIX. **A ruthenium-based catalytic system with switchable selectivity between cyclootrimerization and enyne metathesis/Diels-Alder reactions of terminal alkynes**
 Karabulut S., SARIASLAN B., ÖZTÜRK B. Ö.
 CATALYSIS COMMUNICATIONS, vol.41, pp.12-16, 2013 (Journal Indexed in SCI)
- XX. **In situ modification of the Grubbs first generation catalyst: A highly controllable metathesis catalyst bearing tridentate Schiff base ligands**
 ÖZTÜRK B. Ö. , BUCAK E., Karabulut S.
 JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.376, pp.53-62, 2013 (Journal Indexed in SCI)
- XXI. **A practical ruthenium based catalytic system bearing a switchable selectivity between the dimerization and cyclootrimerization reactions of alkynes**
 ÖZTÜRK B. Ö. , Karabulut S., İmamoglu Y.
 APPLIED CATALYSIS A-GENERAL, vol.433, pp.214-222, 2012 (Journal Indexed in SCI)
- XXII. **Activity of homobimetallic ruthenium alkylidene complexes on intermolecular [2+2+2] cyclootrimerisation reactions of terminal alkynes**
 ÖZTÜRK B. Ö. , Karabulut S., İmamoglu Y.
 INORGANICA CHIMICA ACTA, vol.378, no.1, pp.257-263, 2011 (Journal Indexed in SCI)
- XXIII. **Ru-mediated selective addition reactions of carboxylic acids to internal and terminal alkynes**
 Karabulut S., ÖZTÜRK B. Ö. , İmamoglu Y.
 JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.695, pp.2161-2166, 2010 (Journal Indexed in SCI)
- XXIV. **Silicon and Chlorine Substituted Unsaturated Polymers: ROMP of (bicyclo[2,2,1]hept-5-en-2-yl)ethylchlorodimethylsilane via Mo-based catalyst**
 Karabulut S., ŞAHİN V., ÖZTÜRK B. Ö. , İmamoglu Y.
 JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.19, no.4, pp.570-574, 2009 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Mechanoactive Latent Ruthenium Metathesis Catalysts Bearing Imidazole End-Functionalized ROMP Polymers**
 ÖZTÜRK B. Ö. , KARABULUT S.
 22th International Symposium on Olefin Metathesis and Related Chemistry, Zürich, Switzerland, 9 - 12 July 2017
- II. **"Latent Ruthenium Metathesis Catalysts Supported on Amphiphilic ROMP Polymers: Olefin Metathesis in Aqueous Media**
 ÖZTÜRK B. Ö. , KARABULUT S.
 22th International Symposium on Olefin Metathesis and Related Chemistry, Zürich, Switzerland, 9 - 12 July 2017
- III. **Amfifilik Polimer Destekli Nano-Rutenyum Katalizör Sistemlerinin Geliştirilmesi**
 Durmuş B., ÖZTÜRK B. Ö. , KARABULUT S.
 Uluslararası Katılımlı 6.Ulusal Anorganik Kimya Kongresi, Burdur, Turkey, 18 - 21 May 2017
- IV. **Kendini Onarabilen Polimerik Sistemler için Mekanik Olarak Aktive Edilebilen Yeni Nesil Rutenyum Katalizörlerinin Geliştirilmesi,**
 ÖZTÜRK B. Ö. , KARABULUT S.
 6.Ulusal Anorganik Kimya Kongresi, Burdur, Turkey, 18 - 21 May 2017
- V. **Modification of Functional Polyesters by Metathesis Reactions in the Presence of Hoveyda Grubbs**

TypeCatalysts

Okur D., ÖZTÜRK B. Ö. , KARABULUT S.

NCC6 Catalysis Conference, 27 - 30 April 2016

VI. Synthesis of poly cyclooctene derivatives bearing imidazole end group by ROMP reactions

Çalışgan G., ÖZTÜRK B. Ö. , KARABULUT S.

NCC6 Catalysis Conference, 27 - 30 April 2016

VII. Magnetic Nanoparticle Supported Latent Ruthenium Metathesis Catalysts for Olefin Metathesis Reactions

ÖZTÜRK B. Ö. , KARABULUT S.

NCC6 Catalysis Conference, 27 - 30 April 2016

VIII. Environmental Friendly Latent Ruthenium Metathesis Catalysts for the Synthesis of Nano ROMP Polymers

ÖZTÜRK B. Ö. , KARABULUT S.

NCC6 Catalysis Conference, 27 - 30 April 2016

IX. Modification of Poly norbornenediester Derivatives with Primary and Secondary Amine Groups

Ak E., yakut E., ÖZTÜRK B. Ö. , KARABULUT S.

NCC6 Catalysis Conference, 27 - 30 April 2016

Supported Projects

ÖZTÜRK B. Ö. , Durmuş B., Project Supported by Higher Education Institutions, Homobimetallik rutenyumaren katalizörleri varlığında dehidrojenatif alkol eşleşme reaksiyonları ile fonksiyonel monoalkol ve ester bileşiklerinin sentezi, 2021 - Continues

KARABULUT ŞEHİTOĞLU S., ÖZTÜRK B. Ö. , KURALAY F., Project Supported by Higher Education Institutions, TNT Sensör Uygulamaları için Manyetik Olarak Ayrılabilir Çok Katmanlı Silika Üzerine Destekli Rutenyum Bazlı Yeni Malzemelerin Geliştirilmesi, 2018 - Continues

ÖZTÜRK B. Ö. , TUBITAK Project, Çift Kompartmanlı Au/Ru Bazlı Yeni Nesil Nano-Reaktör Sistemlerinin Geliştirilmesi, 2020 - 2022

ÖZTÜRK B. Ö. , TUBITAK Project, Sıralı Çapraz Metatez/Dehidrojenatif Alkol Eşleşmesi Reaksiyonları İle Fonksiyonel Ester Bileşiklerinin Sentezi, 2019 - 2020

KARABULUT ŞEHİTOĞLU S., ÖZTÜRK B. Ö. , Project Supported by Higher Education Institutions, Suda Çözünebilir Piren Bazlı TNT Sensör Sistemlerinin Geliştirilmesi, 2017 - 2019

ÖZTÜRK B. Ö. , KARABULUT ŞEHİTOĞLU S., Project Supported by Higher Education Institutions, Manyetik Olarak Ayrılabilir Çok Katmanlı Silika Üzerine Destekli Yeni Nesil Rutenyum Katalizörlerinin Sentezi ve Katalitik Uygulamaları, 2017 - 2019

KARABULUT ŞEHİTOĞLU S., ÖZTÜRK B. Ö. , Project Supported by Higher Education Institutions, Uç Alkinler ve Grubbs Tipi Katalizörler Kullanılarak ROMP Polimerlerinin Molekül Ağırlıklarının Ayarlanması, 2018 - 2018

ÖZTÜRK B. Ö. , TUBITAK Project, Rutenyum içeren amfililik nano-reaktör sistemlerinin geliştirilmesi ve su ortamındaki olefin metatez uygulamaları, 2017 - 2018

ÖZTÜRK B. Ö. , TUBITAK Project, Kendini Onaran Polimerler için Mekanoaktif Rutenyum Metatez Katalizörlerinin Geliştirilmesi, 2016 - 2018

ÖZTÜRK B. Ö. , Project Supported by Higher Education Institutions, Su Ortamındaki Olefin Metatez Reaksiyonları için Yüksek Derecede Kontrol Edilebilir Polivinilimidzol Destekli Rutenyum Katalizörleri, 2016 - 2016

ÖZTÜRK B. Ö. , KARABULUT ŞEHİTOĞLU S., Project Supported by Higher Education Institutions, NanoROMP Polimerlerinin Sentezi için Aktivitesi Geciktirilebilir Çevre Dostu Rutenyum Metatez Katalizörleri, 2016 - 2016

KARABULUT ŞEHİTOĞLU S., SARIASLAN B., ÖZTÜRK B. Ö. , Project Supported by Higher Education Institutions, Ru Alkiliden/Alkin İkili Sisteminin Geliştirilmesi ve Katalitik Aktivitesinin Araştırılması, 2015 - 2016

ÖZTÜRK B. Ö. , TUBITAK Project, Romp Uygulamaları için Aktivitesi Kontrol Edilebilen Rutenyum Aren Bazlı Katalizör Sistemlerinin Geliştirilmesi Proje No 114Z669, 2014 - 2016

ÖZTÜRK B. Ö. , TUBITAK Project, Romp Uygulamaları için Aktivitesi Kontrol Edilebilen Rutenyum Aren Bazlı Katalizör

Sistemlerin Geliştirilmesi, 2014 - 2015

Citations

Total Citations (WOS):184

h-index (WOS):9