Prof. SOLMAZ KARABULUT ŞEHİTOĞLU

Personal Information

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Education Information

Doctorate, Hacettepe University, Fen Fak, Kimya Böl, Turkey 2001 - 2006
Postgraduate, Hacettepe University, Fen Fak, Kimya Böl, Turkey 1997 - 2001

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Chemistry, Inorganic Chemistry, Catalysis, Metal Carbene Complexes, Organometallic Chemistry, Natural Sciences

Academic Titles / Tasks

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2011 - Continues
Assistant Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2009 - 2011
Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 1998 - 2009

Advising Theses

KARABULUT ŞEHİTOĞLU S., Aktivitesi kontrol edilebilir yeni rutenyum komplekslerinin sentezi, karakterizasyonu ve katalitik uygulamaları, Doctorate, B.ÖZGÜN(Student), 2016
KARABULUT ŞEHİTOĞLU S., Halka açılım metatez polimerizasyonu (ROMP) uygulamaları için aktivitesi kontrol edilebilen rutenyum bazlı katalitik sistemlerin geliştirilmesi, Postgraduate, B.SARIASLAN(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A catalytic system based on π-π stacking interactions between a pyrene substituted gold NHC catalyst and amphiphilic polymers for alkyne hydration reactions**
ÖZTÜRK B. Ö., Acar H., Balcı A., Cihnioğlu S., Aşkun M., KARABULUT ŞEHİTOĞLU S.
Dalton Transactions, vol.52, no.38, pp.13587-13593, 2023 (SCI-Expanded)

II. **Dosage delivery of chiral ruthenium catalysts using non-ionic surfactants for asymmetric transfer hydrogenation reactions in aqueous media**
ÖZTÜRK B. Ö., Aklan M., KARABULUT ŞEHİTOĞLU S.
REACTION CHEMISTRY & ENGINEERING, vol.8, no.2, pp.424-431, 2022 (SCI-Expanded)

III. **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, vol.45, pp.16689-16695, 2021 (SCI-Expanded)

IV. **Encapsulation ofN-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 (SCI-Expanded)

V. **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 (SCI-Expanded)

VI. **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 (SCI-Expanded)

VII. **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 (SCI-Expanded)

VIII. **A ruthenium-based catalytic system with switchable selectivity between cyclotrimerization and enyne metathesis/Diels-Alder reactions of terminal alkynes**
Karabulut S., SARIASLAN B., ÖZTÜRK B. Ö.
CATALYSIS COMMUNICATIONS, vol.41, pp.12-16, 2013 (SCI-Expanded)

IX. **Electro-Induced Early Transition Metal Metathesis Catalyst Systems for the Production of Polyacetylene**
Karabulut S.
POLYMER JOURNAL, vol.41, no.8, pp.629-633, 2009 (SCI-Expanded)

X. **Solvent-free oxidation of benzyl alcohol over chromium orthoborate**
Oeztuerk O. F., Zuemreoglu-Karan B., Karabulut S.
CATALYSIS COMMUNICATIONS, vol.9, no.7, pp.1644-1648, 2008 (SCI-Expanded)

XI. **Recent Advances in the Applications of Electrochemically Generated Molybdenum and Tungsten-Based Catalysts for the Olefins Metathesis**
Karabulut S., Imamoglu Y.
SYNTHESIS AND REACTIVITY IN INORGANIC METAL-ORGANIC AND NANO-METAL CHEMISTRY, vol.38, no.10, pp.734-741, 2008 (SCI-Expanded)

Books & Book Chapters

I. **Fizikokimya**
TABAK A., KINAL A., YAKAR A., SALİH B., GECE E. G., Ayçik G. A., ASMAN G., KAYGUSUZ K., AKSU M. L., PULAT M., et al.
Palme, 2015

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. **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

VI. **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

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. **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

IX. **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

X. **Acyclic Diene Metathesis (ADMET) Polymerization of Bis(4-pentenyl) dimethylstannane and Bis(4-pentenyl) diphenylstannane with an Electrochemically Activated Catalyst System**
Karabulut S., Imamoglu Y.
Conference of the NATO-Advanced-Study-Institute on Green Metathesis Chemistry - Great Challenges in Synthesis, Catalysis and Nanotechnology, Bucharest, Romania, 21 July - 02 August 2008, pp.361-368

XI. **A study on the reactivity of WCl6-e(-)-Al-CH2Cl2 with the silicon-containing dienes**
Karabulut S., AYDOĞDU C., DÜZ B., Imamoglu Y.
Conference of the NATO Advanced Study Institute on New Frontiers in Metathesis Chemistry, Antalya, Turkey, 4 - 16 September 2006, vol.243, pp.367-368

XII. **Ring-opening metatuesis activity of ruthenium-based olefin metathesis catalyst coordinated with 1,3-bis(2,6-diisopropylphenyl)-4,5dihydroimidazoline**
Karabulut S., Verpoort F.
Conference of the NATO Advanced Study Institute on New Frontiers in Metathesis Chemistry, Antalya, Turkey, 4 - 16 September 2006, vol.243, pp.185-187

XIII. **Investigation of the microstructure of metal catalyzed cyclopentene co-norbornene polymers by spectral methods**
ÇETİNKAYA S., Karabulut S., Imamoglu Y.
Conference of the NATO Advanced Study Institute on New Frontiers in Metathesis Chemistry, Antalya, Turkey, 4 - 16 September 2006, vol.243, pp.355-356

Supported Projects

KARABULUT ŞEHİTOĞLU S., Project Supported by Higher Education Institutions, Üç Dişli (O-N-O) Schiff Bazı İçeren Yeni Rutenyum Alkilinden Komplekslerinin Sentezi, Karakterizasyonu ve Katalitik Uygulamaları, 2011 - 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 - 2023
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
KARABULUT ŞEHİTOĞLU S., Project Supported by Higher Education Institutions, Monometalik ve homobimetalik rutenyum kompleksleriyle yağ asitlerinin metatez reaksiyonları, 2016 - 2017
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., Project Supported by Higher Education Institutions, Rutenyum Bazlı Katalitik Sistemlerin Terminal Alkinlerin Siklotrimerizasyon ve Enin MetatezDiels Alder reaksiyonları Üzerindeki Katalitik Aktivitelerinin Araştırılması, 2015 - 2016
KARABULUT ŞEHİTOĞLU S., SARIASLAN B., ÖZTÜRK B. Ö., Project Supported by Higher Education Institutions, Ru Alkiliden/Alkin İkiii Sisteminin Geliştirilmesi ve Katalitik Aktivitesinin Araştırılması, 2015 - 2016
KARABULUT ŞEHİTOĞLU S., Project Supported by Higher Education Institutions, Kendini Onarabilen Yeni Polimerik Sistemlerin Geliştirilmesi, 2014 - 2015
KARABULUT ŞEHİTOĞLU S., Project Supported by Higher Education Institutions, ÇOKLU ENİN METATEZ/DİELS-ALDER REAKSİYONLARI İLE FONKSİYONEL SİKLİK DİEN TÜREVLERİ ve AROMATİK YAPILARIN SENTEZİ, 2014 - 2015

Metrics

Publication: 25
Citation (WoS): 51
Citation (Scopus): 48
H-Index (WoS): 4
H-Index (Scopus): 5

Non Academic Experience

HACETTEPE ÜNİVERSİTESİ