

# Prof. SERPİL DEMİR DÜŞÜNCELİ

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, Inonu University, Fen Edebiyat Fakültesi/Fen Bilimleri Enstitüsü, Kimya Abd, Turkey 2001 - 2007

Postgraduate, Inonu University, Fen Edebiyat Fakültesi/Fen Bilimleri Enstitüsü, Kimya Abd, Turkey 1999 - 2001

Undergraduate, Inonu University, Fen Edebiyat Fakültesi, Kimya Bölümü, Turkey 1994 - 1998

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Kelat Yapılı N-Heterosiklik Karben Öncüllerinin Sentezi ve Katalitik Özellikleri, Inonu University, Fen Edebiyat Fakültesi, Kimya Bölümü/Anorganik Kimya Abd., 2007

Postgraduate, Hacimli Benzil Grubu İçeren Diaminokarbon Komplekslerinin Sentezi ve Özellikleri, Inonu University, Fen Edebiyat Fakültesi, Kimya Bölümü/Anorganik Kimya Abd., 2001

## Research Areas

Chemistry, Inorganic Chemistry, Transition Metals, Catalysis, Metal Carbene Complexes, Organometallic Chemistry, Novel Ligands, Natural Sciences

## Academic Titles / Tasks

Professor, Inonu University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2017 - Continues

Associate Professor, Inonu University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2011 - 2017

Assistant Professor, Inonu University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2009 - 2011

Research Assistant PhD, Inonu University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2007 - 2009

Research Assistant, Inonu University, Fen Edebiyat Fakültesi, Kimya Bölümü, 1999 - 2007

## Academic and Administrative Experience

## Courses

TEMEL KİMYA, Undergraduate, 2013-2014  
ANORGANİK KİMYA TEKNOLOJİSİ, Undergraduate, 2013-2014  
GENEL KİMYA, Undergraduate, 2013-2014  
ANORGANİK KİMYA TEKNOLOJİSİ, Undergraduate, 2012-2013  
TEMEL KİMYA, Undergraduate, 2012-2013  
IVA Grubu Elementlerinin kimyası, Undergraduate Double Major, 2012-2013  
GENEL KİMYA, Undergraduate, 2012-2013  
ANORGANİK KİMYA LAB., Undergraduate, 2012-2013  
GENEL KİMYA, Undergraduate, 2011-2012  
IVA Grubu Elementlerinin kimyası, Undergraduate Double Major, 2011-2012  
ANORGANİK KİMYA TEKNOLOJİSİ, Undergraduate, 2011-2012  
TEMEL KİMYA, Undergraduate, 2011-2012  
ANORGANİK KİMYA LAB., Undergraduate, 2010-2011  
GENEL KİMYA, Undergraduate, 2010-2011  
TEMEL KİMYA, Undergraduate, 2010-2011  
ÖĞTERİM TEKNİKLERİ VE MATERYAL TASARIMI, Undergraduate, 2010-2011  
ANORGANİK KİMYA I, Undergraduate, 2010-2011  
GENEL KİMYA, Undergraduate, 2009-2010  
ÖĞTERİM TEKNİKLERİ VE MATERYAL TASARIMI, Undergraduate, 2009-2010  
ANORGANİK KİMYA LAB., Undergraduate, 2009-2010  
ANORGANİK KİMYA TEKNOLOJİSİ, Undergraduate, 2009-2010  
TEMEL KİMYA, Undergraduate, 2009-2010

## Advising Theses

DEMİR DÜŞÜNCELİ S., Gümüş Metalinin Benzimidazol-2-iliden Liganlı Komplekslerinin Sentezi ve Uygulamaları, Postgraduate, D.AYAZ(Student), 2019  
DEMİR DÜŞÜNCELİ S., Azot Koordine Metal Karbonil Kompleksleri, Postgraduate, F.Coşkun(Student), 2014  
DEMİR DÜŞÜNCELİ S., Demir Karben Katalizli Tepkimeler, Postgraduate, Y.Gökçe(Student), 2013  
DEMİR DÜŞÜNCELİ S., Siklobütan grubu içeren NHC ve metal komplekslerinin sentezi ile özellikleri, Postgraduate, R.Zengin(Student), 2013

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Applications of quinoxaline-bridged bis(benzimidazolium) salts as ligand sources for the palladium-catalyzed Suzuki and Heck cross-coupling reactions in an aqueous medium**  
DEMİR DÜŞÜNCELİ S., Sahan M. H., KALOĞLU M., ÜSTÜN E., ÖZDEMİR İ.  
JOURNAL OF THE CHINESE CHEMICAL SOCIETY, vol.69, no.11, pp.1937-1953, 2022 (SCI-Expanded)
- II. **Synthesis of Quinoxaline-Linked Bis(Benzimidazolium) Salts and Their Catalytic Application in Palladium-Catalyzed Direct Arylation of Heteroarenes**  
KALOĞLU M., Sahan M. H., Dusunceli S., ÖZDEMİR İ.  
CATALYSIS LETTERS, vol.152, no.7, pp.2012-2024, 2022 (SCI-Expanded)
- III. **Cyanopropyl functionalized benzimidazolium salts and their silver N-heterocyclic carbene complexes: Synthesis, antimicrobial activity, and theoretical analysis**

Turker D., ÜSTÜN E., GÜNAL S., Yildiz H., DEMİR DÜŞÜNCELİ S., ÖZDEMİR İ.

ARCHIV DER PHARMAZIE, vol.355, no.6, 2022 (SCI-Expanded)

- IV. **Molybdenum Carbonyl Complexes with Benzimidazole Derivatives Against SARS-CoV-2 by Molecular Docking and DFT/TDDFT Methods**  
ÜSTÜN E., DEMİR DÜŞÜNCELİ S., Coskun F., ÖZDEMİR İ.  
JOURNAL OF COMPUTATIONAL BIOPHYSICS AND CHEMISTRY, vol.20, no.08, pp.815-827, 2021 (SCI-Expanded)
- V. **Reduction hydrogenation of imines by in situ generated rhodium NHC complexes**  
KARACA E. Ö., Dusunceli S., GÜRBÜZ N., ÖZDEMİR İ.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1216, 2020 (SCI-Expanded)
- VI. **Synthesis, antimicrobial properties, and theoretical analysis of benzimidazole-2-ylidene silver(I) complexes**  
DEMİR DÜŞÜNCELİ S., Ayaz D., ÜSTÜN E., GÜNAL S., ÖZDEMİR N., DİNÇER M., ÖZDEMİR İ.  
JOURNAL OF COORDINATION CHEMISTRY, vol.73, no.13, pp.1967-1986, 2020 (SCI-Expanded)
- VII. **The first used butylene linked bis(N-heterocyclic carbene)-palladium-PEPPSI complexes in the direct arylation of furan and pyrrole**  
KALOĞLU M., DEMİR DÜŞÜNCELİ S., ÖZDEMİR İ.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.915, 2020 (SCI-Expanded)
- VIII. **Direct arylation of heteroarenes by PEPPSI-type palladium-NHC complexes and representative quantum chemical calculations for the compound which the structure was determined by X-ray crystallography**  
ŞAHİN N., SERDAROĞLU G., DUSUNCELI S., Tahir M. N., ARICI C., ÖZDEMİR İ.  
JOURNAL OF COORDINATION CHEMISTRY, vol.72, no.19-21, pp.3258-3284, 2019 (SCI-Expanded)
- IX. **Molecular docking and electronic transition analysis of novel [Re(bbim)(bpy)(CO)(3)]OTf complex as a CO-releasing molecule**  
ÜSTÜN E., SÖNMEZ ÇELEBİ M., ŞAHİN N., DEMİR DÜŞÜNCELİ S., ÖZDEMİR İ.  
JOURNAL OF THE INDIAN CHEMICAL SOCIETY, vol.96, no.9, pp.1175-1179, 2019 (SCI-Expanded)
- X. **Theoretical analysis of frontier orbitals, electronic transitions, and global reactivity descriptors of M(CO)(4)L-2 type metal carbonyl complexes: a DFT/TDDFT study**  
ÜSTÜN E., DEMİR DÜŞÜNCELİ S., ÖZDEMİR İ.  
STRUCTURAL CHEMISTRY, vol.30, no.3, pp.769-775, 2019 (SCI-Expanded)
- XI. **Amine-functionalized silver and gold N-heterocyclic carbene complexes: Synthesis, characterization and antitumor properties**  
Kızrak U., ÇİFTÇİ O., ÖZDEMİR İ., GÜRBÜZ N., DEMİR DÜŞÜNCELİ S., KALOĞLU M., Mansour L., Zaghrouba F., Hamdi N., ÖZDEMİR İ.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.882, pp.26-32, 2019 (SCI-Expanded)
- XII. **ARYLATION OF ANILINE AND AMINES BY Pd-(N-HETEROCYCLIC CARBENE) COMPLEXES**  
ŞAHİN N., DUSUNCELI S. D., ÖZDEMİR İ.  
HETEROCYCLES, vol.94, no.8, pp.1506-1517, 2017 (SCI-Expanded)
- XIII. **Anticancer activities of manganese-based photoactivatable CO-releasing complexes (PhotoCORMs) with benzimidazole derivative ligands**  
Ustun E., Ozgur A., Coskun K. A., DUSUNCELI S. D., Ozdemir I., Tutar Y.  
TRANSITION METAL CHEMISTRY, vol.42, no.4, pp.331-337, 2017 (SCI-Expanded)
- XIV. **A theoretical insight for solvent effect on myoglobin assay of W(CO)(4)L-2 type novel complexes with DFT/TDDFT**  
ÜSTÜN E., Demir S., Coskun F., KALOĞLU M., ŞAHİN O., BÜYÜKGÜNGÖR O., ÖZDEMİR İ.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1123, pp.433-440, 2016 (SCI-Expanded)
- XV. **Carbon monoxide-releasing properties and DFT/TDDFT analysis of [Mn(CO)(3)(bpy)L]PF6 type novel manganese complexes**  
Ustun E., Koc S., DEMİR S., ÖZDEMİR İ.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, pp.16-22, 2016 (SCI-Expanded)
- XVI. **Structure, CO-releasing property, electrochemistry, DFT calculation, and antioxidant activity of**

- benzimidazole derivative substituted [Mn(CO)(3)(bpy)L]PF<sub>6</sub> type novel manganese complexes**  
Ustun E., Ayvaz M. C., Celebi M. S., Asci G., DEMİR S., ÖZDEMİR İ.  
INORGANICA CHIMICA ACTA, vol.450, pp.182-189, 2016 (SCI-Expanded)
- XVII. **CO-releasing properties and anticancer activities of manganese complexes with imidazole/benzimidazole ligands**  
Ustun E., Ozgur A., Coskun K. A., DEMİR S., ÖZDEMİR İ., Tutar Y.  
JOURNAL OF COORDINATION CHEMISTRY, vol.69, no.22, pp.3384-3394, 2016 (SCI-Expanded)
- XVIII. **Synthesis of ruthenium N-heterocyclic carbene complexes and their catalytic activity for beta-alkylation of tertiary cyclic amines**  
ÖZDEMİR İ., Dusunceli S. D., KALOĞLU N., ACHARD M., BRUNEAU C.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, pp.311-315, 2015 (SCI-Expanded)
- XIX. **Functionalized ionic liquids based on imidazolium cation: Synthesis, characterization and catalytic activity for N-alkylation reaction**  
DEMİR S., DAMARHAN Y., ÖZDEMİR İ.  
JOURNAL OF MOLECULAR LIQUIDS, vol.204, pp.210-215, 2015 (SCI-Expanded)
- XX. **Transfer hydrogenation of ketones in the presence of half sandwich ruthenium (II) complexes bearing imidazoline and benzimidazole ligand**  
ŞAHİN N., DEMİR S., ÖZDEMİR İ.  
ARKIVOC, pp.20-33, 2015 (SCI-Expanded)
- XXI. **Imidazolidinium ferrate complexes: Synthesis and catalytic properties**  
DEMİR S., GOKCE Y., ROISNEL T., SORTAIS J., DARCEL C., ÖZDEMİR İ.  
COMPTES RENDUS CHIMIE, vol.17, no.6, pp.541-548, 2014 (SCI-Expanded)
- XXII. **The first used half sandwich ruthenium(II) complexes bearing benzimidazole moiety for N-alkylation of amines with alcohols**  
DEMİR S., Coşkun F., ÖZDEMİR İ.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.755, pp.134-140, 2014 (SCI-Expanded)
- XXIII. **Synthesis of new iron-NHC complexes as catalysts for hydrosilylation reactions**  
DEMİR S., GOKCE Y., KALOĞLU N., SORTAIS J., DARCEL C., ÖZDEMİR İ.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.27, no.8, pp.459-464, 2013 (SCI-Expanded)
- XXIV. **Synthesis of rhodium complexes derived from benzimidazolin-2-ylidene ligands and first used for the addition of arylboron to benzonitriles**  
DEMİR S., Yigit M., ÖZDEMİR İ.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.732, pp.21-26, 2013 (SCI-Expanded)
- XXV. **Synthesis and antimicrobial activity of novel gold(I) N-heterocyclic carbene complexes**  
DOĞAN O., KALOĞLU N., DEMİR S., ÖZDEMİR İ., GÜNAL S., ÖZDEMİR İ.  
MONATSHEFTE FÜR CHEMIE, vol.144, no.3, pp.313-319, 2013 (SCI-Expanded)
- XXVI. **Use of benzimidazolium salts for in situ generation of palladium catalysts in Heck reactions in water**  
SLAMANI A., DEMİR S., ÖZDEMİR İ.  
CATALYSIS COMMUNICATIONS, vol.29, pp.141-144, 2012 (SCI-Expanded)
- XXVII. **Novel benzimidazolium salts and their silver complexes: Synthesis and antibacterial properties**  
GÜNAL S., KALOĞLU N., ÖZDEMİR İ., DEMİR S., ÖZDEMİR İ.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.21, pp.142-146, 2012 (SCI-Expanded)
- XXVIII. **Synthesis, characterization, electrochemical behaviors and applications in the Suzuki-Miyaura cross-coupling reactions of N2S2O2 thio Schiff base ligand and its Cu(II), Co(III), Ni(II), Pd(II) complexes and their usage in the fabrication of organic-inorganic hybrid devices**  
Temel H., Pasa S., Ocak Y. S., Yılmaz İ., DEMİR S., ÖZDEMİR İ.  
SYNTHETIC METALS, vol.161, no.23-24, pp.2765-2775, 2012 (SCI-Expanded)
- XXIX. **The determination of oxidative damage in heart tissue of rats caused by ruthenium(II) and gold(I) N-heterocyclic carbene complexes**  
ÇİFTÇİ O., ÖZDEMİR İ., ÇAKIR O., DEMİR S.  
TOXICOLOGY AND INDUSTRIAL HEALTH, vol.27, no.8, pp.735-741, 2011 (SCI-Expanded)

- XXX. **Butylene linked palladium N-heterocyclic carbene complexes: Synthesis and catalytic properties**  
DEMİR S., ÖZDEMİR İ., Arslan H., VanDerveer D.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.696, no.13, pp.2589-2593, 2011 (SCI-Expanded)
- XXXI. **Synthesis, characterization and catalytic properties of cis-dibromo{1,1'-di[3,4,5-trimethoxybenzyl]-3,3'-butylenedibenzimidazol-2,2'-diylidene}palladium (II)**  
ÖZDEMİR İ., Arslan H., DEMİR S., VanDerveer D., Cetinkaya B.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.14, no.5, pp.672-675, 2011 (SCI-Expanded)
- XXXII. **Palladium(II)-NHC complexes containing benzimidazole ligand as a catalyst for C-N bond formation**  
DOĞAN O., DEMİR S., ÖZDEMİR İ., Cetinkaya B.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.25, no.3, pp.163-167, 2011 (SCI-Expanded)
- XXXIII. **Synthesis, characterization, and application to transfer hydrogenation of eta(6)-(3,4,5-trimethoxybenzyl)-eta(1)-N-heterocyclic carbene-ruthenium complex**  
DEMİR S., ÖZDEMİR İ., Cetinkaya B., ŞAHİN E., ARICI C.  
JOURNAL OF COORDINATION CHEMISTRY, vol.64, no.14, pp.2565-2572, 2011 (SCI-Expanded)
- XXXIV. **Synthesis and characterization of bidentate NHC-Pd complexes and their role in amination reactions**  
Demir S., ÖZDEMİR İ., Cetinkaya B., ARSLAN H., VanDerveer D.  
POLYHEDRON, vol.30, no.1, pp.195-200, 2011 (SCI-Expanded)
- XXXV. **Synthesis, characterization and antimicrobial activity of new silver complexes with N-heterocyclic carbene ligands**  
ÖZDEMİR İ., DEMİR S., GÜNAL S., ÖZDEMİR İ., Arici C., Ulku D.  
INORGANICA CHIMICA ACTA, vol.363, no.14, pp.3803-3808, 2010 (SCI-Expanded)
- XXXVI. **Palladium N-heterocyclic carbene complexes: Synthesis, characterization and catalytic properties in amination**  
ÖZDEMİR İ., DEMİR S., Sahin O., Buyukgungor O., Cetinkaya B.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.695, no.10-11, pp.1555-1560, 2010 (SCI-Expanded)
- XXXVII. **Gold(I) Complexes of N-Heterocyclic Carbene Ligands Containing Benzimidazole: Synthesis and Antimicrobial Activity**  
ÖZDEMİR İ., TEMELİ N., GÜNAL S., DEMİR S.  
MOLECULES, vol.15, no.4, pp.2203-2210, 2010 (SCI-Expanded)
- XXXVIII. **New 1,2,4,5-tetrakis-(N-imidazoliummethyl)benzene and 1,2,4,5-tetrakis(N-benzimidazoliummethyl)benzene salts as N-heterocyclic tetracarbene precursors: synthesis and involvement in ruthenium-catalyzed allylation reactions**  
GÜRBÜZ N., Demir S., ÖZDEMİR İ., Cetinkaya B., BRUNEAU C.  
TETRAHEDRON, vol.66, no.6, pp.1346-1351, 2010 (SCI-Expanded)
- XXXIX. **Synthesis and Catalytic Activity of Novel Benzimidazolinylidene-Ruthenium(II) Complexes**  
Demir S., ÖZDEMİR İ., Sahin O., Cetinkaya B., BÜYÜKGÜNGÖR O.  
SYNLETT, no.3, pp.496-500, 2010 (SCI-Expanded)
- XL. **Synthesis and catalytic properties of novel ruthenium N-heterocyclic-carbene complexes**  
DEMİR S., Oezdemir I., Cetinkaya B.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.694, no.25, pp.4025-4031, 2009 (SCI-Expanded)
- XLI. **Synthesis and catalytic activity of novel xylyl-linked benzimidazolium salts**  
DEMİR S., ÖZDEMİR İ., Cetinkaya B.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.23, no.12, pp.520-523, 2009 (SCI-Expanded)
- XLII. **Synthesis, Characterization and Catalytic Activity of New N-Heterocyclic Bis(carbene)ruthenium Complexes**  
ÖZDEMİR İ., Demir S., GÜRBÜZ N., Cetinkaya B., TOUPET L., BRUNEAU C., DIXNEUF P. H.  
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, no.13, pp.1942-1949, 2009 (SCI-Expanded)
- XLIII. **1-(1H-Benzimidazol-1-ylmethyl)-3-[2-(diisopropylamino)ethyl]-1H-benzimidazolium bromide 0.25-hydrate**  
Arslan H., VanDerveer D., DEMİR S., Oezdemir I., Cetinkaya B.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.65, 2009 (SCI-Expanded)

- XLIV. **Synthesis and characterization of N-heterocyclic carbene palladium complex and its application on direct arylation of benzoxazoles and benzothiazoles with aryl bromides**  
ARSLAN H., ÖZDEMİR İ., Vanderveer D., Demir S., Cetinkaya B.  
JOURNAL OF COORDINATION CHEMISTRY, vol.62, no.16, pp.2591-2599, 2009 (SCI-Expanded)
- XLV. **1-(4-tert-Butylbenzyl)-3-(3,4,5-trimethoxybenzyl)benzimidazolium bromide monohydrate**  
Arslan H., VanDerveer D., DEMİR S., ÖZDEMİR İ., Cetinkaya B.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.65, 2009 (SCI-Expanded)
- XLVI. **Bromido[1-(eta(6)-4-tert-butylbenzyl)-3-(2,4,6-trimethylbenzyl)benzimidazol-2-ylidene]chloridoruthenium(II)**  
Arslan H., VanDerveer D., ÖZDEMİR İ., DEMİR S., Cetinkaya B.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.65, 2009 (SCI-Expanded)
- XLVII. **Synthesis, characterization and catalytic properties of an N-heterocyclic carbene palladium-based complex**  
ÖZDEMİR İ., ARSLAN H., Demir S., VanDerveer D., Cetinkaya B.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.11, no.12, pp.1462-1465, 2008 (SCI-Expanded)
- XLVIII. **Synthesis of novel rhodium-xylyl linked N-heterocyclic carbene complexes as hydrosilylation catalysts**  
Ozdemir I., DEMİR S., Sahin O., Bueyuekguengoer O., Cetinkaya B.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.22, no.1, pp.59-66, 2008 (SCI-Expanded)
- XLIX. **Direct arylation of arene C-H bonds by cooperative action of NHCarbene-Ruthenium(II) catalyst and carbonate via proton abstraction mechanism**  
ÖZDEMİR İ., DEMİR S., CETINKAYA B., Gourlaouen C., MASERAS F., BRUNEAU C., DIXNEUF P. H.  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.130, no.4, pp.1156-1158, 2008 (SCI-Expanded)
- L. **Chelating eta(6)-arene-eta(1)-carbene ligands in ruthenium complexes**  
Ozdemir I., DEMİR S., CETINKAYA B., TOUPET L., CASTARLENAS R., FISCHMEISTER C., DIXNEUF P. H.  
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, no.18, pp.2862-2869, 2007 (SCI-Expanded)
- LI. **Palladium-catalyzed Heck reaction of aryl bromides in aqueous media using tris(N-heterocyclic carbene) ligands**  
Ozdemir I., DEMİR S., CETINKAYA B.  
SYNLETT, no.6, pp.889-892, 2007 (SCI-Expanded)
- LII. **Synthesis, structure and spectroscopic characterization of 1,2-bis-(2,4,6-trimethylbenzylideneamino) ethanedichloropalladium(II)**  
ARICI C., ULKU D., Ozdemir I., DEMİR S., CETINKAYA B.  
JOURNAL OF COORDINATION CHEMISTRY, vol.59, no.7, pp.797-802, 2006 (SCI-Expanded)
- LIII. **Use of bis(benzimidazolium) - palladium system as a convenient catalyst for Heck and Suzuki coupling reactions of aryl bromides and chlorides**  
DEMİR S., Ozdemir I., CETINKAYA B.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.20, no.4, pp.254-259, 2006 (SCI-Expanded)
- LIV. **Novel rhodium-1,3-dialkyl-3,4,5,6-tetrahydropyrimidin-2-ylidene complexes as catalysts for arylation of aromatic aldehydes**  
Ozdemir I., DEMİR S., CETINKAYA B., CETINKAYA E.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.690, no.24-25, pp.5849-5855, 2005 (SCI-Expanded)
- LV. **Use of tetrahydropyridinium salts for highly efficient palladium-catalyzed cross-coupling reactions of aryl bromides and chlorides**  
Ozdemir I., DEMİR S., CETINKAYA B.  
TETRAHEDRON, vol.61, no.41, pp.9791-9798, 2005 (SCI-Expanded)
- LVI. **In situ generated 1-alkylbenzimidazole-palladium catalyst for the Suzuki coupling of aryl chlorides**  
Ozdemir I., SAHIN N., GOK Y., DEMİR S., CETINKAYA B.  
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.234, no.1-2, pp.181-185, 2005 (SCI-Expanded)
- LVII. **Crystal structure of [RuCl<sub>2</sub>[N-(2,4,6-trimethyl-benzyl)N-(n-butyl)]-imidazolidin-2-ylidene] and [RuCl<sub>2</sub>[N-(2,4,6-trimethyl-benzyl)-N-(2-methoxyethyl)]imidazolidin-2-ylidene]**

- ARSLAN H., VANDERVEER D., Ozdemir I., CETINKAYA B., DEMIR S.  
 JOURNAL OF CHEMICAL CRYSTALLOGRAPHY, vol.35, no.6, pp.491-495, 2005 (SCI-Expanded)
- LVIII. **Palladium-catalysed Suzuki reaction of aryl chlorides in aqueous media using 1,3-dialkylimidazolidin-2-ylidene ligands**  
 Ozdemir I., DEMIR S., YASAR S., CETINKAYA B.  
 APPLIED ORGANOMETALLIC CHEMISTRY, vol.19, no.1, pp.55-58, 2005 (SCI-Expanded)
- LIX. **In-situ generated 1-alkylimidazoline-palladium catalyst for the Suzuki cross-coupling reaction of aryl chlorides**  
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### Refereed Congress / Symposium Publications in Proceedings

- I. **[Mn(CO)<sub>3</sub>(2,2-bipyridyl)(4-methoxybenzylbenzimidazole)]PF<sub>6</sub> Complex As A New CO-Releasing Molecules**  
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 1. INTERNATIONAL TECHNOLOGICAL SCIENCES AND DESIGN SYMPOSIUM, 27 - 29 June 2018
- II. **[Mn(CO)<sub>3</sub>](2,2-bipyridyl)(4-methoxybenzylbenzimidazole)]PF<sub>6</sub> complex as a new CO-releasing molecules**  
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- III. **The Coupling Reaction With Aryl Grignard Reagents in the Presence of Iron NHC Catalyst**  
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