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### Kişisel Bilgiler

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Yoksis Araştırmacı ID: 106894

### Eğitim Bilgileri

Doktora, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Türkiye 1989 - 1995

Yüksek Lisans, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Türkiye 1987 - 1989

Lisans, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Türkiye 1983 - 1987

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Araştırma Alanları

Kimya, İnorganik Kimya, Kataliz, Metal karben kompleksleri, Organometalik Kimya , Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, 2007 - Devam Ediyor

Doç. Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, 2002 - 2007

Yrd. Doç. Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, 1997 - 2002

Araştırma Görevlisi, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, 1988 - 1997

### Akademik İdari Deneyim

İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2009 - Devam Ediyor

Rektör Yardımcısı, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, 2009 - 2016

İnönü Üniversitesi, Fen Bilimleri Enstitüsü, 2008 - 2009

İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2000 - 2006

İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1999 - 2000

## **verađı Dersler**

BİTİRME ÇALIŞMASI, Lisans, 2013-2014  
METAL KARBON BAĐI İÇEREN BİLEŞİKLER VE ÖZELLİKLERİ, Lisans Yandal, 2013-2014  
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ANİORGANİK KİMYA LAB, Lisans, 2000-2001

## Yönetilen Tezler

ÖZDEMİR İ., Fonksiyonel grup içeren metal-NHC kompleksleri ve özellikleri, Doktora, M.KALOĞLU(Öğrenci), 2017  
ÖZDEMİR İ., İmidazol ve benzimidazol içeren n-heterosiklik karben öncüllerinin sentezi ve özellikleri, Doktora, M.AKKOÇ(Öğrenci), 2015  
ÖZDEMİR İ., Benzimidazol çekirdeği içeren azol komplekslerinin sentezi ve katalitik özellikleri, Doktora, K.BULDURUN(Öğrenci), 2015  
ÖZDEMİR İ., Sülfonat fonksiyonlu karben öncülleri ve özellikleri, Doktora, N.KALOĞLU(Öğrenci), 2015  
ÖZDEMİR İ., Polidentat karben öncüllerinin sentezi ve özellikleri, Doktora, Ö.DOĞAN(Öğrenci), 2014  
ÖZDEMİR İ., N-heterosiklik karben katalizli aminasyon, Yüksek Lisans, M.KALOĞLU(Öğrenci), 2011  
ÖZDEMİR İ., Gümüş ve altın N-heterosiklik karben komplekslerinin sentezi ve özellikleri, Yüksek Lisans, N.TEMELLİ(Öğrenci), 2010  
ÖZDEMİR İ., N-heterosiklik karben katalizörlüğünde eterifikasyon, Yüksek Lisans, M.AKKOÇ(Öğrenci), 2009  
ÖZDEMİR İ., N-heterosiklik karben katalizli c-h aktivasyonu, Yüksek Lisans, Ö.DOĞAN(Öğrenci), 2008

ÖZDEMİR İ., Kelat yapıları N-heterosiklik karben öncüllerinin sentezi ve katalitik özellikleri, Doktora, S.DEMİR(Öğrenci), 2007

ÖZDEMİR İ., N-koordine metal komplekslerinin sentezi ve özellikleri, Yüksek Lisans, N.ŞAHİN(Öğrenci), 2005

ÖZDEMİR İ., İşlevsel grup içeren diaminokarben kompleksleri ve özellikleri, Yüksek Lisans, S.YAŞAR(Öğrenci), 2004

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Benzimidazol-2-ylidene ruthenium complexes for C–N bond formation through alcohol dehydrogenation**  
Nawaz Z., Gürbüz N., Naveed M., Özdemir N., Cetinkaya B., Özdemir İ.  
Turkish Journal of Chemistry, cilt.47, sa.5, ss.1209-1223, 2023 (SCI-Expanded)
- II. **Novel benzimidazolium salts and their silver(I)-N-heterocyclic carbene complexes: synthesis, characterization and their biological properties**  
Belhi Z., Karci H., DüNDAR M., Gürbüz N., Özdemir İ., Koç A., Cherit A., Özdemir İ.  
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- III. **Synthesis, characterization, in vitro antibacterial, and anticancer studies of Ag(I)-N-heterocyclic carbene (NHC) complexes**  
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- IV. **A benzimidazolium salt as effective corrosion inhibitor against the corrosion of mild steel in acidic medium: experimental and theoretical studies**  
ŞAHİN N., KAYA S., Aydın O., Katin K. P., Chaouiki A., GÜRBÜZ N., ÖZDEMİR İ., FARSAK M.  
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- V. **Phthalimide-tethered imidazolium salts: Synthesis, characterization, enzyme inhibitory properties, and in silico studies**  
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- VI. **Vinyl functionalized 5,6-dimethylbenzimidazolium salts: Synthesis and biological activities**  
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- VII. **Applications of quinoxaline-bridged bis(benzimidazolium) salts as ligand sources for the palladium-catalyzed Suzuki and Heck cross-coupling reactions in an aqueous medium**  
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- VIII. **Synthesis, crystal structures, DFT calculations, and catalytic application in hydrosilylation of acetophenone derivatives with triethylsilane of novel rhodium-N-heterocyclic carbene (NHCs) complex**  
Hassen S., Zouaghi M. O., Slimani I., Arfaoui Y., ÖZDEMİR N., ÖZDEMİR İ., GÜRBÜZ N., Mansour L., Gatri R., Hamdi N.  
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- IX. **Preparation of Mixed Bis-N-Heterocyclic Carbene Rhodium(I) Complexes**  
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- X. **Pd-NHC complex catalyzed C-H bond activation reactions of caffeine and 2-isobutylthiazole**  
Bugday N., Khan S., YAŞAR S., BULUT F., Boulebd H., KARABIYIK H., KARABIYIK H., ÖZ E., Rehman A. U., ÖZDEMİR İ.  
MOLECULAR CATALYSIS, cilt.530, 2022 (SCI-Expanded)
- XI. **Synthesis, spectroscopic characterization and antimicrobial properties of silyl-tethered benzimidazolium salts**  
YİĞİT M., ŞİRECİ N., Guenal S., Onderci M., ÖZDEMİR N., Arinc A., YİĞİT B., ÖZDEMİR İ.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1264, 2022 (SCI-Expanded)
- XII. **Molecular docking and in vitro anticancer studies of silver(I)-N-heterocyclic carbene complexes**

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- XIII. **Synthesis and investigation of antiproliferative activity of Ru-NHC complexes against C6 and HeLa cancer cells**  
Paşahan R., Yaşar Ş., Köprülü T. K., Tekin Ş., Yaşar S., Özdemir İ., Akkoç M.  
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- XIV. **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.  
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- XV. **Crystal structure, optical properties, spectroscopic characterization and density functional theory studies of a new rhodium (i)-imidazolidin-2-ylidene complexes: Synthesis, characterization and cytotoxic properties**  
KARACA E. Ö., ÇİFTÇİ O., ÖZDEMİR İ., KARABIYIK H., KARABIYIK H., Guerbuez N., ÖZDEMİR İ., Mansour L., Youssef A., Hamdi N.  
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- XVI. **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.  
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- XVII. **Highly Active Fe<sub>3</sub>O<sub>4</sub>@SBA-15@NHC-Pd Catalyst for Suzuki-Miyaura Cross-Coupling Reaction**  
Akkoc M., Bugday N., ALTIN S., ÖZDEMİR İ., YAŞAR S.  
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- XVIII. **Benzimidazole-based N-heterocyclic carbene silver complexes as catalysts for the formation of carbonates from carbon dioxide and epoxides**  
Nawaz Z., Ullah H., Gurbuz N., Zafar M. N., Verpoort F., Tahir M. N., ÖZDEMİR İ., Trovitch R. J.  
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- XIX. **Ruthenium(II) complexes bearing benzimidazole-based N-heterocyclic carbene (NHC) ligands as potential antimicrobial, antioxidant, enzyme inhibition, and antiproliferative agents**  
Boubakri L., Chakchouk-Mtiba A., Naouali O., Mellouli L., Mansour L., ÖZDEMİR İ., Yaser S., Sauthier M., Hamdi N.  
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- XX. **Synthesis, molecular docking, and biological evaluation of 5-alkyl(aryl)-2-isobutylthiazole derivatives: As alpha-amylase, alpha-glucosidase, and protein kinase inhibitors**  
Khan S., Bugday N., Rehman A. U., Ul Haq I., YAŞAR S., ÖZDEMİR İ.  
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- XXI. **Substituted N-heterocyclic carbene PEPSI-type palladium complexes with different N-coordinated ligands: Involvement in the direct C-H bond activation of heteroarenes derivatives with aryl bromide and their antimicrobial, anti-inflammatory and antioxidant activities**  
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- XXIII. **Selenourea and thiourea derivatives of chiral and achiral enetetramines: Synthesis, characterization and enzyme inhibitory properties**  
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- XXIV. **Synthesis, characterization, crystal structure, Hirshfeld surface analysis, and theoretical study on a N-heterocyclic carbene salt and two NHC-palladium complexes**  
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- XXV. **4,5-Dihydro-imidazol-2-ylidene-linked palladium complexes as catalysts for the direct C-H bond arylation of azoles**  
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- XXVI. **New benzimidazolium N-heterocyclic carbene precursors and their related Pd-NHC complex PEPPSI-type: Synthesis, structures, DFT calculations, biological activity, docking study, and catalytic application in the direct arylation**  
Sandeli A. E., Boulebd H., Khiri-Meribout N., Benzerka S., Bensouici C., ÖZDEMİR N., GÜRBÜZ N., ÖZDEMİR İ.  
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- XXVII. **Highly Efficient Single A(3)-Coupling (Aldehyde-Amine-Alkyne) Reaction Catalyzed by Air Stable Silver-(N-Heterocyclic Carbene) Complexes: Synthesis and Characterization**  
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- XXVIII. **Synthesis of N-heterocyclic carbene-based silver complexes and their antimicrobial properties against bacteria and fungi**  
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- XXIX. **Rhodium(I) complexes with N-heterocyclic carbene ligands: synthesis, biological properties and catalytic activity in the hydrosilylation of aromatic ketones**  
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- XXX. **Antimicrobial activity, inhibition of biofilm formation, and molecular docking study of novel Ag-NHC complexes**  
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- XXXI. **Molybdenum Carbonyl Complexes with Benzimidazole Derivatives Against SARS-CoV-2 by Molecular Docking and DFT/TDDFT Methods**  
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- XXXII. **N-Heterocyclic carbene-palladium-PEPPSI complexes and their catalytic activity in the direct C-H bond activation of heteroarene derivatives with aryl bromides: synthesis, and antimicrobial and antioxidant activities**  
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- XXXIII. **Direct arylation (hetero-coupling) of heteroarenes via unsymmetrical palladium-PEPPSI-NHC type complexes**  
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- XXXIV. **Synthesis of new Pd(NHC)-PEPPSI type complexes as catalysts toward C-C cross-coupling reactions**  
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- XXXV. **Palladium-PEPPSI-NHC Complexes Bearing Imidazolidin-2-Ylidene Ligand: Efficient Precatalysts for the Direct C5-Arylation of N-Methylpyrrole-2-Carboxaldehyde**  
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- XXXVI. **Synthesis, characterization, antimicrobial and antibiofilm activity, and molecular docking analysis of NHC precursors and their Ag-NHC complexes**  
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- XXXVII. **The direct C(sp<sup>2</sup>)-H functionalization and coupling of aromatic N-heterocycles with (hetero)aryl**

**bromides by [PdX<sub>2</sub>(imidazolidin-2-ylidene)(Py)] catalysts**

Kaloğlu M., Slimani I., Özdemir N., Gürbüz N., Hamdi N., Özdemir İ.

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- XXXVIII. **Synthesis, structures, DFT calculations, and catalytic application in the direct arylation of five-membered heteroarenes with aryl bromides of novel palladium-N-heterocyclic carbene PEPPSI-type complexes**  
Sandeli A. E., Khiri-Meribout N., Benzerka S., Boulebd H., Gürbüz N., Özdemir N., Özdemir İ.  
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- XXXIX. **Water-soluble silver(I) complexes with N-donor benzimidazole ligands containing an imidazolium core: stability and preliminary biological studies**  
KARATAŞ M. O., ÖZDEMİR N., Sariman M., GÜNAL S., ULUKAYA E., ÖZDEMİR İ.  
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- XL. **Silver-N-heterocyclic carbene complexes-catalyzed multicomponent reactions: Synthesis, spectroscopic characterization, density functional theory calculations, and antibacterial study**  
Mnasri A., Mejri A., Al-Hazmy S. M., Arfaoui Y., Özdemir İ., Gürbüz N., Hamdi N.  
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- XLII. **Amine-functionalized benzimidazolium salts: Synthesis, structural characterization, hirshfeld surface analysis and theoretical studies**  
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- XLIII. **Silver (I)-N-heterocyclic carbene complexes: Synthesis and characterization, biological evaluation of Anti-Cholinesterase, anti-alpha-amylase, anti-lipase, and antibacterial activities, and molecular docking study**  
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- XLIV. **Synthesis, crystal structures and catalytic activities of palladium complexes with coumarin-functionalised N-heterocyclic carbene ligands**  
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- XLV. **New silver N-heterocyclic carbenes complexes: Synthesis, molecular docking study and biological activities evaluation as cholinesterase inhibitors and antimicrobials**  
Lasmari S., Ikhlef S., Boulcina R., Mokrani E. H., Bensouici C., GÜRBÜZ N., Dunder M., Karci H., ÖZDEMİR İ., KOÇ A., et al.  
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- XLVI. **Iridium(i) complexes bearing hemilabile coumarin-functionalised N-heterocyclic carbene ligands with application as alkyne hydrosilytation catalysts**  
Karata M. O., ALICI B., Passarelli V., ÖZDEMİR İ., Perez-Torrente J. J., Castarlenas R.  
DALTON TRANSACTIONS, cilt.50, sa.32, ss.11206-11215, 2021 (SCI-Expanded)
- XLVII. **PEPPSI type complexes: Synthesis, x-ray structures, spectral studies, molecular docking and theoretical investigations**  
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- XLVIII. **The first use of [PdBr<sub>2</sub>(imidazolidin-2-ylidene)(pyridine)] catalysts in the direct C-H bond arylation of C2-substituted furan and thiophene**  
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- XLIX. **Half-sandwich Ru(II) arene complexes bearing benzimidazole ligands for the N-alkylation reaction of aniline with alcohols in a solvent-free medium**  
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- XLIX. **N-heterocyclic carbene Pd(II) complex supported on Fe<sub>3</sub>O<sub>4</sub>@SiO<sub>2</sub>: Highly active, reusable and magnetically separable catalyst for Suzuki-Miyaura cross-coupling reactions in aqueous media**  
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- L. **Experimental and quantum mechanical investigation on two N-heterocyclic carbene palladium complexes**  
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- LI. **Ru(II)-NHC catalysed N-Alkylation of amines with alcohols under solvent-free conditions**  
KARACA E. Ö., Dehimat Z. I., YAŞAR S., GÜRBÜZ N., Tebbani D., Cetinkaya B., ÖZDEMİR İ.  
INORGANICA CHIMICA ACTA, cilt.520, 2021 (SCI-Expanded)
- LII. **Synthesis of [PdBr<sub>2</sub>(benzimidazole-2-ylidene)(pyridine)] complexes and their catalytic activity in the direct C-H bond activation of 2-substituted heterocycles**  
Lasmari S., Gürbüz N., Boulcina R., Özdemir N., Özdemir İ.  
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- LIII. **Synthesis, in vitro anticancer activities, and quantum chemical investigations on 1,3-bis-(2-methyl-2-propenyl)benzimidazolium chloride and its Ag(I) complex**  
SERDAROĞLU G., ŞAHİN BÖLÜKBAŞI S., Barut-Celepçi D., SEVİNÇEK R., ŞAHİN N., GÜRBÜZ N., ÖZDEMİR İ.  
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- LIV. **C-H Bond activation of 2-isobutylthiazole at C5 position catalysed by Pd-N-heterocyclic carbene complexes**  
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- LV. **Pd-N-heterocyclic carbene complex catalysed C-H bond activation of 2-isobutylthiazole at the C5 position with aryl bromides**  
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- LVI. **Pd-PEPSI: X-ray Structure, Spectroscopic Analyses, and Quantum Mechanical Studies**  
Kilic-Cikla I., ŞAHİN N., ÖZDEMİR N., GÜRBÜZ N., ÖZDEMİR İ.  
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- LVII. **Rhodium(i) N-heterocyclic carbene complexes: synthesis and cytotoxic properties**  
Slimani I., Şahin Bölükbaşı S., Ulu M., Evren E., Gürbüz N., Özdemir İ., Hamdi N., Özdemir İ.  
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- LVIII. **Synthesis, characterization and catalytic activity of PEPSI-type palladium-NHC complexes**  
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- LIX. **Direct arylation of heteroaromatic compounds by Pd(OAc)<sub>2</sub>/tetrakis(N-benzimidazoliummethyl)benzene salt system**  
DOĞAN ULU Ö., ÖZDEMİR İ.  
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- LX. **Anticancer, antimicrobial and antiparasitical activities of copper(I) complexes based on N-heterocyclic carbene (NHC) ligands bearing aryl substituents**  
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- LXI. **Novel N-Heterocyclic Carbene Silver(I) Complexes: Synthesis, Structural Characterization, Antimicrobial and Cytotoxicity Potential Studies**  
Slimani I., Chakchouk-Mtibaa A., Mellouli L., Mansour L., ÖZDEMİR İ., GÜRBÜZ N., Hamdi N.  
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- LXII. **Biological Activities of NHC-Pd(II) Complexes Based on Benzimidazolylidene N-heterocyclic Carbene (NHC) Ligands Bearing Aryl Substituents (dagger)**  
Al Nasr I., Touj N., Koko W., Khan T., ÖZDEMİR İ., YAŞAR S., Hamdi N.

- CATALYSTS, cilt.10, sa.10, 2020 (SCI-Expanded)
- LXIII. **Reduction hydrogenation of imines by in situ generated rhodium NHC complexes**  
KARACA E. Ö., Dusunceli S., GÜRBÜZ N., ÖZDEMİR İ.  
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- LXIV. **Silver(I) N-heterocyclic carbene complexes: Synthesis, characterization and cytotoxic properties**  
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- LXV. **Azo-azomethine based palladium(II) complexes as catalysts for the Suzuki-Miyaura cross-coupling reaction**  
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- LXVI. **First used of Alkylbenzimidazole-Cobalt(II) complexes as a catalyst for the N -Alkylation of amines with alcohols under solvent -free medium**  
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- LXVII. **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.  
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- LXVIII. **The first used butylene linked bis(N-heterocyclic carbene)-palladium-PEPSI complexes in the direct arylation of furan and pyrrole**  
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- LXIX. **Synthesis, characterization and antitumor properties of novel silver(I) and gold(I) N-heterocyclic carbene complexes**  
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- LXX. **Catechol-bearing imidazolium and benzimidazolium chlorides as promising antimicrobial agents**  
Karatas M. O., GÜNAL S., Mansur A., ALICI B., ÖZDEMİR İ.  
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- LXXI. **Novel amine-functionalized benzimidazolium salts: Synthesis, characterization, bioactivity, and molecular docking studies**  
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- LXXII. **The direct C4-arylation of 3,5-dimethylisoxazole with aryl bromides catalyzed by imidazolidin-2-ylidene based palladium-PEPSI complexes**  
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- LXXIII. **Palladium-carbene catalyzed direct arylation of five-membered heteroaromatics**  
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- LXXIV. **Synthesis, characterization, biological determination and catalytic evaluation of ruthenium(ii) complexes bearing benzimidazole-based NHC ligands in transfer hydrogenation catalysis**  
Slimani I., Chakchouk-Mtibaa A., Mansour L., Mellouli L., Ozdemir İ., Gurbuz N., Hamdi N.  
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- LXXV. **Synthesis, structural characterization of silver(I)-NHC complexes and their antimicrobial, antioxidant and antitumor activities**  
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- LXXVI. **Arylation of heterocyclic compounds by benzimidazole-based N-heterocyclic carbene-palladium(II)**

**complexes**

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- LXXVII. **Well-defined PEPPSI-themed palladium-NHC complexes: synthesis, and catalytic application in the direct arylation of heteroarenes**  
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- LXXVIII. **Synthesis, structures and catalytic activity of Pd(II) saccharinate complexes with monophosphines in direct arylation of five-membered heteroarenes with aryl bromides**  
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- LXXIX. **Therapeutic potential of coumarin bearing metal complexes: Where are we headed?**  
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- LXXX. **N-heterocyclic carbene palladium complexes with different N-coordinated ligands: Comparison of their catalytic activities in Suzuki-Miyaura and Mizoroki-Heck reactions**  
KARATAŞ M. O., ÖZDEMİR N., ALICI B., ÖZDEMİR İ.  
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- LXXXI. **Active ruthenium(II)-NHC complexes for alkylation of amines with alcohols using solvent-free conditions**  
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- LXXXII. **Metal-NHC heterocycle complexes in catalysis and biological applications: Systematic review**  
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- LXXXIII. **Ruthenium(II) complexes bearing N-heterocyclic carbene ligands with wingtip groups and their catalytic activity in the transfer hydrogenation of ketones**  
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- LXXXIV. **The kinetics and mechanism of polymer-based NHC-Pd-pyridine catalyzed heterogeneous Suzuki reaction in aqueous media**  
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- LXXXV. **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**  
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- LXXXVI. **Ru(ii)-N-heterocyclic carbene complexes: synthesis, characterization, transfer hydrogenation reactions and biological determination**  
Boubakri L., Chakchouk-Mtibaa A., Al-Ayed A. S., Mansour L., Abutaha N., Harrath A. H., Mellouli L., ÖZDEMİR İ., YAŞAR S., Hamdi N.  
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- LXXXVII. **5-Nitrobenzimidazole containing Pd(II) catalyzed C-C cross-coupling reactions: The effect of the N-substituent of the benzimidazole structure on catalyst activity**  
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- LXXXVIII. **Synthesis and investigation of catalytic activity of phenylene - And biphenylene bridged bimetallic Palladium-PEPPSI complexes**  
Imik F., YAŞAR S., ÖZDEMİR İ.  
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- LXXXIX. **Molecular docking and electronic transition analysis of novel [Re(bbim)(bpy)(CO)(3)]OTf complex as a CO-releasing molecule**  
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- XC. **Ruthenium(II)-NHC-catalyzed (NHC = perhydrobenzimidazol-2-ylidene) alkylation of amines using the hydrogen borrowing methodology under solvent-free conditions**  
 Yigit M., KARACA E. Ö., Yigit B., GÜRBÜZ N., ÖZDEMİR İ.  
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- XCI. **Synthesis of bridged palladium-PEPSI complexes and catalytic studies in C-C cross-coupling reactions**  
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- LIV. **YENİ Ag(I)-N-HETEROSİKLİK KARBEN KOMPLEKSLERİNİN SENTEZİ ve KARAKTERİZASYONU**  
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