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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

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verdiği Dersler

BİTİRME ÇALIŞMASI, Lisans, 2013-2014

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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 öncülerinin 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., Sulfonat fonksiyonlu karben öncülerini ve özellikleri, Doktora, N.KALOĞLU(Öğrenci), 2015

ÖZDEMİR İ., Polidentat karben öncülerinin 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 katalizörüğünde 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 yapılı N-heterosiklik karben öncülerinin 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**
DOĞAN ULU Ö., Kurucay A., ATEŞ B., ÖZDEMİR İ.
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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., Aydin 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**
YİĞİT M., Demir Y., BARUT CELEPCİ D., TAŞKIN TOK T., Arinc A., YİĞİT B., AYGÜN M., ÖZDEMİR İ., GÜLÇİN İ.
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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 (NHGs) complex**
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- IX. **Preparation of Mixed Bis-N-Heterocyclic Carbene Rhodium(I) Complexes**
Azpiroz R., Olgun Karatas M. O., Passarelli V., ÖZDEMİR İ., Perez-Torrente J. J., Castarlenas R.
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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.
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- XI. **Synthesis, spectroscopic characterization and antimicrobial properties of silyl-tethere d benzimidazolium salts**
YİĞİT M., ŞIRECİ N., Guenal S., Onderci M., ÖZDEMİR N., Arinc A., YİĞİT B., ÖZDEMİR İ.
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- XII. **Molecular docking and in vitro anticancer studies of silver(I)-N-heterocyclic carbene complexes**

- Akkoc M., Khan S., YÜCE H., BAŞAK TÜRKMEN N., YAŞAR Ş., YAŞAR S., ÖZDEMİR İ.
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- XIII. **Synthesis and investigation of antiproliferative activity of Ru-NHC complexes against C6 and HeLa cancer cells**
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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.
INORGANICA CHIMICA ACTA, cilt.537, 2022 (SCI-Expanded)
- XVI. **Cyanopropyl functionalized benzimidazolium salts and their silver N-heterocyclic carbene complexes: Synthesis, antimicrobial activity, and theoretical analysis**
Turker D., ÜSTÜN E., GÜNAL S., Yıldız H., DEMİR DÜŞÜNCELİ S., ÖZDEMİR İ.
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- XVII. **Highly Active Fe3O4@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**
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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.
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.36, sa.5, 2022 (SCI-Expanded)
- XXI. **Substituted N-heterocyclic carbene PEPPSI-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**
Slimani I., Boubakri L., Ozdemir N., Mansour L., Ozdemir İ., Gurbuz N., Yasar S., Sauthier M., Hamdi N.
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- XXII. **SYNTHESIS AND ENZYME INHIBITORY PROPERTIES OF QUINOXALINE BRIDGED BIS(IMIDAZOLIUM) SALTS**
YİĞİT M., Demir Y., Arinc A., YİĞİT B., KOCA M., ÖZDEMİR İ., GÜLÇİN İ.
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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**
ÖZDEMİR N., KALOĞLU M., Kaloglu N., GÜRBÜZ N., ÖZDEMİR İ.

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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**
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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(sp²)-H functionalization and coupling of aromatic N-heterocycles with (hetero)aryl**

- bromides by [PdX2(imidazolidin-2-ylidene)(Py)] catalysts**
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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**
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- XXXIX. Water-soluble silver(I) complexes with N-donor benzimidazole ligands containing an imidazolium core: stability and preliminary biological studies**
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- XL. Silver-N-heterocyclic carbene complexes-catalyzed multicomponent reactions: Synthesis, spectroscopic characterization, density functional theory calculations, and antibacterial study**
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- XLI. Amine-functionalized benzimidazolium salts: Synthesis, structural characterization, hirshfeld surface analysis and theoretical studies**
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- XLII. 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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- XLIII. Synthesis, crystal structures and catalytic activities of palladium complexes with coumarin-functionalised N-heterocyclic carbene ligands**
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- XLIV. New silver N-heterocyclic carbenes complexes: Synthesis, molecular docking study and biological activities evaluation as cholinesterase inhibitors and antimicrobials**
Lasmani S., Ikhlef S., Boulcina R., Mokrani E. H., Bensouici C., GÜRBÜZ N., Dundar M., Karci H., ÖZDEMİR İ., KOÇ A., et al.
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- XLV. Iridium(i) complexes bearing hemilabile coumarin-functionalised N-heterocyclic carbene ligands with application as alkyne hydrositytation catalysts**
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- XLVI. PEPPSI type complexes: Synthesis, x-ray structures, spectral studies, molecular docking and theoretical investigations**
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- XLVII. The first use of [PdBr₂(imidazolidin-2-ylidene)(pyridine)] catalysts in the direct C-H bond arylation of C2-substituted furan and thiophene**
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- XLVIII. 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 Fe₃O₄@SiO₂: 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**
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- LII. **Synthesis of [PdBr₂(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**
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- LIV. **C-H Bond activation of 2-isobutylthiazole at C5 position catalysed by Pd-N-heterocyclic carbene complexes**
Bugday N., Khan S., YAŞAR S., ÖZDEMİR İ.
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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-PEPPSI: X-ray Structure, Spectroscopic Analyses, and Quantum Mechanical Studies**
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- LVII. **Rhodium(i) N-heterocyclic carbene complexes: synthesis and cytotoxic properties**
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- LVIII. **Synthesis, characterization and catalytic activity of PEPPSI-type palladium-NHC complexes**
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- LIX. **Direct arylation of heteroaromatic compounds by Pd(OAc)₂/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**
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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.

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- LXIII. Reduction hydrogenation of imines by in situ generated rhodium NHC complexes
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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
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- LXVIII. The first used butylene linked bis(N-heterocyclic carbene)-palladium-PEPPI 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
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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-PEPPI complexes
KALOĞLU M., ÖZDEMİR İ.
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- LXXIII. Palladium-carbene catalyzed direct arylation of five-membered heteroaromatics
KALOĞLU M., Kaloglu N., Yıldırım I., ÖZDEMİR N., ÖZDEMİR İ.
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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., Gurbuzd N., Hamdi N.
NEW JOURNAL OF CHEMISTRY, cilt.44, sa.14, ss.5309-5323, 2020 (SCI-Expanded)
- 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?**

Balcioglu S., KARATAŞ M. O., ATEŞ B., ALICI B., ÖZDEMİR İ.

BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, cilt.30, sa.2, 2020 (SCI-Expanded)

- XXX. **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.

POLYHEDRON, cilt.176, 2020 (SCI-Expanded)

- LXXXI. **Active ruthenium(II)-NHC complexes for alkylation of amines with alcohols using solvent-free conditions**

YİĞİT B., KARACA E. Ö., YİĞİT M., GÜRBÜZ N., ARSLAN H., ÖZDEMİR İ.

POLYHEDRON, cilt.175, 2020 (SCI-Expanded)

- LXXXII. **Metal-NHC heterocycle complexes in catalysis and biological applications: Systematic review**

Jalal M., Hammouti B., Touzani R., Aouniti A., ÖZDEMİR İ.

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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**

YİĞİT B., Isik Y., CELEPCİ D. B., Evren E., YİĞİT M., GÜRBÜZ N., ÖZDEMİR İ.

INORGANICA CHIMICA ACTA, cilt.499, 2020 (SCI-Expanded)

- LXXXIV. **The kinetics and mechanism of polymer-based NHC-Pd-pyridine catalyzed heterogeneous Suzuki reaction in aqueous media**

BOZTEPE C., KÜNKÜL A., GÜRBÜZ N., ÖZDEMİR İ.

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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.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.896, ss.162-167, 2019 (SCI-Expanded)

- LXXXIX. **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.
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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-PEPPSI complexes and catalytic studies in C-C cross-coupling reactions**
Imik F., YAŞAR S., ÖZDEMİR İ.
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- XCII. **Bioactive NHC-derived palladium complexes: synthesis, catalytic activity for the Suzuki-Miyaura coupling of aryl chlorides and bromides and their antibacterial activities**
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- XCIII. **Investigation of hybrid-capacitor properties of ruthenium complexes**
ALTIN S., Oz E., Altundag S., BAYRİ A., Roisnel T., Dorcet V., Bruneau C., ÖZDEMİR İ., YAŞAR S.
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- XCIV. **Platinum (II) N-heterocyclic carbene complexes: Synthesis, characterization and cytotoxic properties**
KARACA E. Ö., Ciftci O., ÖZDEMİR İ., Yakali G., Aygun M., GÜRBÜZ N., ÖZDEMİR İ.
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- XCV. **Enhanced pi-back-donation resulting in the trans labilization of a pyridine ligand in an N-heterocyclic carbene (NHC) Pd-II precatalyst: a case study**
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- XCVI. **Ruthenium(II)-(Arene)-N-Heterocyclic Carbene Complexes: Efficient and Selective Catalysts for the N-Alkylation of Aromatic Amines with Alcohols**
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- XCVII. **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**
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- XCIX. **In situ palladium/N-heterocyclic carbene complex catalyzed carbonylative cross-coupling reactions of arylboronic acids with 2-bromopyridine under CO pressure: efficient synthesis of unsymmetrical arylpyridine ketones and their antimicrobial activities**
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- C. **PEPPSI-Pd-NHC catalyzed Suzuki-Miyaura cross-coupling reactions in aqueous media**
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- CII. **Imidazolinium chloride salts bearing wingtip groups: Synthesis, molecular docking and metabolic**

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- CIV. Amine-functionalized silver and gold N-heterocyclic carbene complexes: Synthesis, characterization and antitumor properties**
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- CVI. Preparation and characterization of PEPPSI-palladium N-heterocyclic carbene complexes using benzimidazolium salts catalyzed Suzuki-Miyaura cross coupling reaction and their antitumor and antimicrobial activities**
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- CVIII. Preparation and spectroscopic studies of Fe(II), Ru(II), Pd(II) and Zn(II) complexes of Schiff base containing terephthalaldehyde and their transfer hydrogenation and Suzuki-Miyaura coupling reaction**
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- CX. Cationic versus anionic Pt complex: The performance analysis of a hybrid-capacitor, DFT calculation and electrochemical properties**
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- CXIII. Synthesis of N-heterocyclic carbene-palladium-PEPPSI complexes and their catalytic activity in the direct C-H bond activation**
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- CXV. Palladium(II)-N-Heterocyclic Carbene Complexes: Efficient Catalysts for the Direct C-H Bond Arylation of Furans with Aryl Halides
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- CXXIX. **Copper-catalyzed azide-alkyne cycloaddition (CuAAC) under mild condition in water: Synthesis, catalytic application and biological activities**
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- CXXXIV. **A novel ditopic ring-expanded N-heterocyclic carbene ligand-assisted Suzuki-Miyaura coupling reaction in aqueous media**
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- CXXXVI. **ARYLATION OF ANILINE AND AMINES BY Pd-(N-HETEROCYCLIC CARBENE) COMPLEXES**
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- CXXXIX. **Anticancer activities of manganese-based photoactivatable CO-releasing complexes (PhotoCORMs) with benzimidazole derivative ligands**
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- CXL. **Silver-N-Heterocyclic Carbene Complexes: Synthesis, Characterization, and Antimicrobial Properties**
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- CXLV. **Synthesis of palladium complexes derived from imidazolidin-2-ylidene ligands and used for catalytic amination reactions**
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- CLVII. **Catalytic activity of Ru/tetrahydropyrimidinium salts system for transfer hydrogenation reactions**
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- CLXIV. **Cross coupling reactions catalyzed by (NHC)Pd(II) complexes**
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- CLXV. **The synthesis of 1,3-dialkyl-4-methylimidazolinium salts and their application in palladium catalyzed Heck coupling reactions**
Yigit M., Bayam G., Yigit B., ÖZDEMİR İ.
TURKISH JOURNAL OF CHEMISTRY, cilt.39, sa.2, ss.281-289, 2015 (SCI-Expanded)
- CLXVI. **RHODIUM(I)-N-HETEROCYCLIC CARBENE-CATALYZED ADDITION OF SODIUM TETRAPHENYLBORATE**

TO KETONES TO FORM TERTIARY ALCOHOLS

Yigit B., Yigit M., ÖZDEMİR İ.

HETEROCYCLES, cilt.89, sa.11, ss.2562-2571, 2014 (SCI-Expanded)

- CLXVII. **Ionic liquid based Ru(II)-phosphinite compounds and their catalytic use in transfer hydrogenation:**

X-ray structure of an ionic compound 1-chloro-3-(3-methylimidazolidin-1-yl)propan-2-ol

Aydemir M., RAFIKOVA K., KYSTAUBAYEVA N., Pasa S., Meric N., Ocak Y. S., ZAZYBIN A., Temel H., GÜRBÜZ N., ÖZDEMİR İ.

POLYHEDRON, cilt.81, ss.245-255, 2014 (SCI-Expanded)

- CLXVIII. **Palladium(II)-N-heterocyclic carbene complexes: synthesis, characterization and catalytic application**

Cekirdek S., Yasar S., ÖZDEMİR İ.

APPLIED ORGANOMETALLIC CHEMISTRY, cilt.28, sa.6, ss.423-431, 2014 (SCI-Expanded)

- CLXIX. **Imidazolidinium ferrate complexes: Synthesis and catalytic properties**

DEMİR S., GOKCE Y., ROISNEL T., SORTAIS J., DARCEL C., ÖZDEMİR İ.

COMPTES RENDUS CHIMIE, cilt.17, sa.6, ss.541-548, 2014 (SCI-Expanded)

- CLXX. **Transfer hydrogenation of ketones catalyzed by new rhodium and iridium complexes of aminophosphine containing cyclohexyl moiety and photosensing behaviors of rhodium and iridium based devices**

RAFIKOVA K., KYSTAUBAYEVA N., Aydemir M., Kayan C., Ocak Y. S., Temel H., ZAZYBIN A., GÜRBÜZ N., ÖZDEMİR İ.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.758, ss.1-8, 2014 (SCI-Expanded)

- CLXXI. **New Bisbenzimidazolin-2-Ylidene Salts as N-Heterocyclic Dicarbene Precursors: Synthesis, Characterization, and Involvement in Palladium-Catalyzed Suzuki Reactions**

Yasar S., Cekirdek S., ÖZDEMİR İ.

HETEROATOM CHEMISTRY, cilt.25, sa.3, ss.157-162, 2014 (SCI-Expanded)

- CLXXII. **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, cilt.755, ss.134-140, 2014 (SCI-Expanded)

- CLXXIII. **Synthesis of new iron-NHC complexes as catalysts for hydrosilylation reactions**

DEMİR S., GOKCE Y., KALOGLU N., SORTAIS J., DARCEL C., ÖZDEMİR İ.

APPLIED ORGANOMETALLIC CHEMISTRY, cilt.27, sa.8, ss.459-464, 2013 (SCI-Expanded)

- CLXXIV. **Subtle Steric Effects in Nickel-Catalysed Kumada-Tamao-Corriu Cross-Coupling Using Resorcinarenyl-Imidazolium Salts**

SAHIN N., SEMERIL D., BRENNER E., MATT D., ÖZDEMİR İ., KAYA C., TOUPET L.

EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, cilt.2013, sa.20, ss.4443-4449, 2013 (SCI-Expanded)

- CLXXV. **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, cilt.732, ss.21-26, 2013 (SCI-Expanded)

- CLXXVI. **Resorcinarene-Functionalised Imidazolium Salts as Ligand Precursors for Palladium-Catalysed SuzukiMiyaura Cross-Couplings**

SAHIN N., SEMERIL D., BRENNER E., MATT D., ÖZDEMİR İ., KAYA C., TOUPET L.

CHEMCATCHEM, cilt.5, sa.5, ss.1116-1125, 2013 (SCI-Expanded)

- CLXXVII. **SYNTHESIS OF 1,3-DIALKYLPERHYDROBENZIMIDAZOLINIUM SALTS AND THEIR CATALYTIC PROPERTIES IN HECK REACTIONS**

Yigit M., Bayam G., Yigit B., ÖZDEMİR İ.

HETEROCYCLES, cilt.87, sa.4, ss.897-909, 2013 (SCI-Expanded)

- CLXXVIII. **Synthesis and antimicrobial activity of novel gold(I) N-heterocyclic carbene complexes**

DOGAN O., KALOGLU N., DEMİR S., ÖZDEMİR İ., GÜNAL S., ÖZDEMİR İ.

MONATSHEFTE FÜR CHEMIE, cilt.144, sa.3, ss.313-319, 2013 (SCI-Expanded)

- CLXXIX. **N-Heterocyclic carbene-palladium catalysts for the direct arylation of pyrrole derivatives with aryl**

chlorides

ÖZDEMİR İ., GÜRBÜZ N., KALOGLU N., DOĞAN O., KALOĞLU M., BRUNEAU C., DOUCET H.

BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY, cilt.9, ss.303-312, 2013 (SCI-Expanded)

- CLXXX. **Synthesis, crystal structures, magnetic properties and Suzuki and Heck coupling catalytic activities of new coordination polymers containing tetracyanopalladate(II) anions**

Senocak A., Karadag A., Yerli Y., GÜRBÜZ N., ÖZDEMİR İ., ŞAHİN E.

POLYHEDRON, cilt.49, sa.1, ss.50-60, 2013 (SCI-Expanded)

- CLXXXI. **Potential N-Heterocyclic Carbene Precursors in the Palladium-Catalyzed Heck Reaction**

DEMİR S., ZENGİN R., ÖZDEMİR İ.

HETEROATOM CHEMISTRY, cilt.24, sa.1, ss.77-83, 2013 (SCI-Expanded)

- CLXXXII. **An efficient ligand-free method for the transfer hydrogenation of ketones and aldehydes catalyzed by different complexes**

Yasar S., Cekirdek S., Akkus Tas N., Yildirim S., ÖZDEMİR İ.

TURKISH JOURNAL OF CHEMISTRY, cilt.37, sa.2, ss.292-298, 2013 (SCI-Expanded)

- CLXXXIII. **Use of benzimidazolium salts for in situ generation of palladium catalysts in Heck reactions in water**

SLAMANI A., DEMİR S., ÖZDEMİR İ.

CATALYSIS COMMUNICATIONS, cilt.29, ss.141-144, 2012 (SCI-Expanded)

- CLXXXIV. **Ruthenium, rhodium and iridium complexes of the furfuryl-2-(N-diphenylphosphino)methylamine ligand: Molecular structure and catalytic activity**

Kayan C., Meric N., Aydemir M., Baysal A., Elma D., Ak B., ŞAHİN E., GÜRBÜZ N., ÖZDEMİR İ.

POLYHEDRON, cilt.42, sa.1, ss.142-148, 2012 (SCI-Expanded)

- CLXXXV. **Novel benzimidazolium salts and their silver complexes: Synthesis and antibacterial properties**

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INORGANIC CHEMISTRY COMMUNICATIONS, cilt.21, ss.142-146, 2012 (SCI-Expanded)

- CLXXXVI. **Synthesis of ruthenium(II) N-heterocyclic carbene complexes and their catalytic activities in transfer hydrogenation of ketones**

Yigit B., Yigit M., ÖZDEMİR İ., Cetinkaya E.

TRANSITION METAL CHEMISTRY, cilt.37, sa.3, ss.297-302, 2012 (SCI-Expanded)

- CLXXXVII. **Evaluation of reproductive toxicity in male rats treated with novel synthesized ruthenium(II) and gold(I)-NHC complexes**

ÇİFTÇİ O., BEYTUR A., VARDI N., ÖZDEMİR İ.

DRUG DEVELOPMENT AND INDUSTRIAL PHARMACY, cilt.38, sa.1, ss.40-46, 2012 (SCI-Expanded)

- CLXXXVIII. **Preparation of a series of Ru(II) complexes with N-heterocyclic carbene ligands for the catalytic transfer hydrogenation of aromatic ketones**

GÜRBÜZ N., Ozcan E. Ö., ÖZDEMİR İ., Cetinkaya B., Sahin O., Buyukgungor O.

DALTON TRANSACTIONS, cilt.41, sa.8, ss.2330-2339, 2012 (SCI-Expanded)

- CLXXXIX. **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., Yilmaz İ., DEMİR S., ÖZDEMİR İ.

SYNTHETIC METALS, cilt.161, sa.23-24, ss.2765-2775, 2012 (SCI-Expanded)

- CXC. **Synthesis and use of trans-dichlorido-tetrakis-(N-R-imidazole)nickel(II) complexes in Kumada-Tamao-Corriu cross-coupling reactions**

SAHİN N., EL MOLL H., SEMERİL D., MATT D., ÖZDEMİR İ., KAYA C., TOUPET L.

POLYHEDRON, cilt.30, sa.12, ss.2051-2054, 2011 (SCI-Expanded)

- CXCI. **Butylene linked palladium N-heterocyclic carbene complexes: Synthesis and catalytic properties**

DEMİR S., ÖZDEMİR İ., Arslan H., VanDerveer D.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.696, sa.13, ss.2589-2593, 2011 (SCI-Expanded)

- CXCII. **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, cilt.14, sa.5, ss.672-675, 2011 (SCI-Expanded)
- CXCIII. Palladium(II)-NHC complexes containing benzimidazole ligand as a catalyst for C-N bond formation
DOGAN O., DEMIR S., ÖZDEMİR İ., Cetinkaya B.
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.25, sa.3, ss.163-167, 2011 (SCI-Expanded)
- CXCIV. THE SYNTHESIS OF NOVEL PALLADIUM(II) CARBENE COMPLEXES, AZOLIUM SALTS AND THEIR CATALYTIC PROPERTIES
Yigit B., Yigit M., ÖZDEMİR İ., Cetinkaya E.
HETEROCYCLES, cilt.83, sa.2, ss.299-309, 2011 (SCI-Expanded)
- CXCV. In situ catalytic activities of 1,3-dialkyltetrahydropyrimidinium salts/[RuCl₂(p-cymene)](2) system for transfer hydrogenation reactions
Ozcan E. Ö., Mercan D., GÜRBÜZ N., Cetinkaya E., Cetinkaya B., ÖZDEMİR İ.
TURKISH JOURNAL OF CHEMISTRY, cilt.35, sa.5, ss.699-709, 2011 (SCI-Expanded)
- CXCVI. 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, cilt.64, sa.14, ss.2565-2572, 2011 (SCI-Expanded)
- CXCVII. Synthesis and characterization of bidentate NHC-Pd complexes and their role in amination reactions
Demir S., ÖZDEMİR İ., Cetinkaya B., ARSLAN H., VanDerveer D.
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- CXCVIII. 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.
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- CXCIX. Synthesis and antimicrobial activity of Ag(I)-N-heterocyclic carbene complexes derived from benzimidazol-2-ylidene
ÖZDEMİR İ., GÜRBÜZ N., DOGAN O., GÜNAL S., ÖZDEMİR İ.
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.24, sa.11, ss.758-762, 2010 (SCI-Expanded)
- CC. Transfer Hydrogenation of Ketones by Ruthenium Complexes Bearing Benzimidazol-2-ylidene Ligands
GÜRBÜZ N., Yasar S., Ozcan E. Ö., ÖZDEMİR İ., Cetinkaya B.
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, sa.19, ss.3051-3056, 2010 (SCI-Expanded)
- CCI. Palladium N-heterocyclic carbene complexes: Synthesis, characterization and catalytic properties in amination
ÖZDEMİR İ., DEMİR S., Sahin O., Buyukgungor O., Cetinkaya B.
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- CCII. THE SYNTHESIS OF SOME BENZIMIDAZOLIUM SALTS AND USE AS CARBENE PRECURSORS IN THE HECK AND SUZUKI REACTIONS
Yigit B., Yigit M., ÖZDEMİR İ., Cetinkaya E.
HETEROCYCLES, cilt.81, sa.4, ss.943-953, 2010 (SCI-Expanded)
- CCIII. N-Heterocyclic Carbenes: Useful Ligands for the Palladium-Catalysed Direct C5 Arylation of Heteroaromatics with Aryl Bromides or Electron-Deficient Aryl Chlorides
ÖZDEMİR İ., GÖK Y., Ozeroglu O., KALOĞLU M., DOUCET H., BRUNEAU C.
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, sa.12, ss.1798-1805, 2010 (SCI-Expanded)
- CCIV. Synthesis and characterization of ether-derivatized aminophosphines and their application in C-C coupling reactions
Biricik N., Kayan C., Gumgum B., Fei Z., Scopelliti R., Dyson P. J., GÜRBÜZ N., ÖZDEMİR İ.
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- CCV. The orthopalladation dinuclear [Pd(L-1)(mu-OAc)](2), [Pd(L-2)(mu-OAc)](2) and mononuclear [Pd(L-3)(2)] complexes with [N, C, O] or [N, O] containing ligands: Synthesis, spectral characterization, electrochemistry and catalytic properties
Kilic A., Kilinc D., Tas E., Yilmaz İ., Durgun M., ÖZDEMİR İ., YAŞAR S.

- JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.695, sa.5, ss.697-706, 2010 (SCI-Expanded)
- CCVI. **Pd Functionalized MCM-41 Catalysts for Suzuki Reactions**
GÜRBÜZ N., Vural S., YAŞAR S., ÖZDEMİR İ., SEÇKİN T.
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- CCVII. **New 1,2,4,5-tetrakis-(N-imidazoliniummethyl)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.
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- CCVIII. **Synthesis and Catalytic Activity of Novel Benzimidazolinylidene-Ruthenium(II) Complexes**
Demir S., ÖZDEMİR İ., Sahin O., Cetinkaya B., BÜYÜKGÜNGÖR O.
SYNLETT, sa.3, ss.496-500, 2010 (SCI-Expanded)
- CCIX. **Palladium-Catalyzed Heck Coupling Reaction of Aryl Bromides in Aqueous Media Using Tetrahydropyrimidinium Salts as Carbene Ligands**
Yasar S., Ozcan E. Ö., GÜRBÜZ N., Cetinkaya B., ÖZDEMİR İ.
MOLECULES, cilt.15, sa.2, ss.649-659, 2010 (SCI-Expanded)
- CCX. **Picolyl substituted N-heterocyclic carbene/palladium catalyzed Heck reactions**
Yigit B., Yigit M., ÖZDEMİR İ., Cetinkaya E.
TURKISH JOURNAL OF CHEMISTRY, cilt.34, sa.3, ss.327-334, 2010 (SCI-Expanded)
- CCXI. **Synthesis and characterization of new (N-diphenylphosphino)-isopropylanilines and their complexes: crystal structure of ($\text{Ph}_2\text{P} = \text{S}$) $\text{NH-C}_6\text{H}_4\text{-4-CH(CH}_3\text{)}(2)$ and catalytic activity of palladium(II) complexes in the Heck and Suzuki cross-coupling reactions**
Aydemir M., Baysal A., GÜRBÜZ N., ÖZDEMİR İ., GUMGUM B., ÖZKAR S., Caylak N., Yildirim L. T.
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- CCXII. **HYDROGENATION OF ACETOPHENONE AND ITS DERIVATIVES WITH 2-PROPANOL USING AMINOMETHYLPHOSPHINE-RUTHENIUM CATALYSIS**
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- CCXIII. **Ionic liquids as solvent for efficient esterification of carboxylic acids with alkyl halides**
GÖK Y., Alici B., Cetinkaya E., ÖZDEMİR İ., OZEROGLU O.
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- CCXIV. **Synthesis and catalytic properties of novel ruthenium N-heterocyclic-carbene complexes**
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- CCXV. **Synthesis and catalytic activity of novel xylyl-linked benzimidazolium salts**
DEMIR S., ÖZDEMİR İ., Cetinkaya B.
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.23, sa.12, ss.520-523, 2009 (SCI-Expanded)
- CCXVI. **Preparation and Catalytic Properties of a Ru(II) Coordinated Polyimide Supported by a Ligand Containing Terpyridine Units**
SEÇKİN T., ÖZDEMİR İ., Koytepe S., GÜRBÜZ N.
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- CCXVII. **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.
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- CCXVIII. **1-(1H-Benzimidazol-1-ylmethyl)-3-[2-(diisopropylamino)ethyl]-1H-benzimidazolium bromide 0.25-hydrate**
Arslan H., VanDerveer D., DEMIR S., Oezdemir I., Cetinkaya B.

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- CCXIX. **Synthesis and characterization of N-heterocyclic carbene palladium complex and its direct arylation of benzoazoles with aryl bromides application**
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Dogan O., Guerbuez N., Oezdemir İ., Cetinkaya B.
JOURNAL OF HETEROCYCLIC CHEMISTRY, cilt.46, sa.2, ss.186-190, 2009 (SCI-Expanded)
- CCXXI. **Dichlorido[1-(2-methylbenzyl)-3-(eta(6)-2,4,6-trimethylbenzyl)-1H-2,3-dihydrobenzimidazol-2-ylidene]ruthenium(II) dichloromethane solvate**
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- CCXXII. **Mono- and dinuclear Pd(II) complexes of different salicylaldimine ligands as catalysts of transfer hydrogenation of nitrobenzene with cyclohexene and Suzuki-Miyaura coupling reactions**
Tas E., Kılıç A., Durgun M., Yılmaz İ., ÖZDEMİR İ., GÜRBÜZ N.
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- CCXXIII. **1,3-Bis(2-thienylmethyl)-4,5-dihydroimidazolium trichlorido(eta(6)-p-cymene) ruthenate(II)**
Arslan H., VanDerveer D., Oezdemir I., Guerbuez N., Goek Y., Cetinkaya B.
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- CCXXIV. **1,3-Bis(4-tert-butylbenzyl)-4,5-dihydroimidazolium chloride monohydrate**
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- CCXXVII. **Bromido[1-(eta(6)-4-tert-butylbenzyl)-3-(2,4,6-trimethylbenzyl)benzimidazol-2-ylidene]chloridoruthenium(II)**
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- CCXXIX. **1,3-Bis(thiophen-2-ylmethyl)-3,4,5,6-tetrahydropyrimidinium trichlorido(eta(6)-p-cymene)ruthenate(II)**
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- CCXXX. **1-(4-tert-Butylbenzyl)-3-(3,4,5-trimethoxybenzyl)benzimidazolium bromide monohydrate**
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ÖZDEMİR İ., ARSLAN H., Demir S., VanDerveer D., Cetinkaya B.
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- CCLXII. **Synthesis of novel palladium N-heterocyclic-carbene complexes as catalysts for Heck and Suzuki**

cross-coupling reactions

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- CCLXIII. **Regioselective allylic alkylation and etherification catalyzed by *in situ* generated N-heterocyclic carbene ruthenium complexes**

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- CCLXIV. **Synthesis of a ruthenium complex bound to a polyimide matrix: Investigating the catalytic properties in a hydrosilylation reaction**

SECKIN T., KOYTEPE S., Ozdemir I., CETINKAYA B.

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- CCLXV. **Dichloride [1-(2,4,6-trimethylbenzyl)-3-(biphenyl-2-ylmethyl)-imidazolidin-2-ylidene (eta(6)-hexamethylbenzene)]ruthenium**

ARSLAN H., VAN DERVEER D., Ozdemir I., Yasar S., CETINKAYA B.

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- CCLXVI. **Novel rhodium-1,3-dialkyl-3,4,5,6-tetrahydropyrimidin-2-ylidene complexes as catalysts for arylation of aromatic aldehydes**

Ozdemir I., DEMIR S., CETINKAYA B., CETINKAYA E.

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- CCLXVIII. **Use of tetrahydropyridinium salts for highly efficient palladium-catalyzed cross-coupling reactions of aryl bromides and chlorides**

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TETRAHEDRON, cilt.61, sa.41, ss.9791-9798, 2005 (SCI-Expanded)

- CCLXIX. **Ruthenium(II) N-heterocyclic carbene complexes in the transfer hydrogenation of ketones**

Ozdemir I., YASAR S., CETINKAYA B.

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- CCLXX. **Palladium-catalyzed Suzuki-Miyaura reaction of aryl chlorides in aqueous media using tetrahydropyridinium salts as carbene ligands**

Ozdemir I., Gurbuz N., GOK Y., CETINKAYA E., CETINKAYA B.

SYNLETT, sa.15, ss.2394-2396, 2005 (SCI-Expanded)

- CCLXXI. **Dichloro[3-(1-naphthylmethyl)-1-(2,4,6-trimethylbenzyl)imidazolidin-2-ylidene]ruthenium**

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- CCLXXIII. **1,4,5,6-tetrahydropyrimidinium halides ligands for Suzuki-Miyaura cross-coupling of unactivated aryl chlorides**

Alici B., Ozdemir I., Gurbuz N., CETINKAYA E., CETINKAYA B.

HETEROCYCLES, cilt.65, sa.6, ss.1439-1446, 2005 (SCI-Expanded)

- CCLXXIV. **In situ generated 1-alkylbenzimidazole-palladium catalyst for the Suzuki coupling of aryl chlorides**

Ozdemir I., SAHIN N., GOK Y., DEMIR S., CETINKAYA B.

JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, cilt.234, sa.1-2, ss.181-185, 2005 (SCI-Expanded)

- CCLXXV. **Crystal structure of [RuCl₂[N-(2,4,6-trimethyl-benzyl)N-(n-butyl)]-imidazolidin-2-ylidene] and [RuCl₂[N-(2,4,6-trimethyl-benzyl)-N-(2-methoxyethyl)]imidazolidin-2-ylidene]**

ARSLAN H., VANDERVEER D., Ozdemir I., CETINKAYA B., DEMIR S.

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phenylboronic acid to aldehydes

Ozdemir I., Gurbuz N., Seckin T., CETINKAYA B.

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CCLXXVII. **Synthesis and catalytic properties of 1-alkylperimidineruthenium (II) complexes**

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JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, cilt.231, ss.261-264, 2005 (SCI-Expanded)

CCLXXVIII. **Rhodium-benzimidazolidin-2-ylidene catalyzed addition of arylboronic acids to aldehydes**

Ozdemir I., Gurbuz N., Gok Y., CETINKAYA B., CETINKAYA E.

TRANSITION METAL CHEMISTRY, cilt.30, sa.3, ss.367-371, 2005 (SCI-Expanded)

CCLXXIX. **Selective palladium-catalyzed arylation(s) of benzaldehyde derivatives by N-heterocarbene ligands**

Gurbuz N., Ozdemir I., CETINKAYA B.

TETRAHEDRON LETTERS, cilt.46, sa.13, ss.2273-2277, 2005 (SCI-Expanded)

CCLXXX. **In situ preparation of palladium N-heterocyclic carbene complexes and use for Suzuki reaction**

Ozdemir I., Gok Y., Gurbuz N., CETINKAYA E., CETINKAYA B.

JOURNAL OF HETEROCYCLIC CHEMISTRY, cilt.42, sa.2, ss.303-306, 2005 (SCI-Expanded)

CCLXXXI. **Synthesis of Ru(II) complex with 3-(4,5-dihydroimidazol-1-yl)propyltriethoxysilane containing viologen group**

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CCLXXXII. **Synthesis of Pd(II) 1-alkylperimidine complexes as efficient catalysts for Suzuki reactions involving arylchlorides**

Ozdemir I., Alici B., Gurbuz N., CETINKAYA B., CETINKAYA E.

RUSSIAN JOURNAL OF COORDINATION CHEMISTRY, cilt.31, sa.2, ss.142-145, 2005 (SCI-Expanded)

CCLXXXIII. **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, cilt.19, sa.1, ss.55-58, 2005 (SCI-Expanded)

CCLXXXIV. **In situ generated rhodium-based catalyst for addition of phenylboronic acid to aldehydes**

YIGIT M., Ozdemir I., CETINKAYA E., CETINKAYA B.

HETEROATOM CHEMISTRY, cilt.16, sa.6, ss.461-465, 2005 (SCI-Expanded)

CCLXXXV. **In-situ generated 1-alkylimidazoline-palladium catalyst for the Suzuki cross-coupling reaction of aryl chlorides**

Ozdemir I., SAHIN N., Gurbuz N., Demir S., Gok Y., CETINKAYA B., GETINKAYA E.

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CCLXXXVI. **Suzuki reaction of aryl chlorides using saturated N-heterocarbene ligands**

Ozdemir I., YASAR S., DEMIR S., CETINKAYA B.

HETEROATOM CHEMISTRY, cilt.16, sa.7, ss.557-561, 2005 (SCI-Expanded)

CLXXXVII. **Synthesis of novel palladium-carbene complexes as efficient catalysts for amination of aryl chlorides in ionic liquid**

Ozdemir I., DEMIR S., GOK Y., CETINKAYA E., CETINKAYA B.

JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, cilt.222, ss.97-102, 2004 (SCI-Expanded)

CCLXXXVIII. **In-situ generated functionalized benzimidazol-2-ylidene-palladium catalyst for Suzuki reaction**

Ozdemir I., Gok Y., Gurbuz N., Yasar S., CETINKAYA E., CETINKAYA B.

POLISH JOURNAL OF CHEMISTRY, cilt.78, ss.2141-2147, 2004 (SCI-Expanded)

CCLXXXIX. **Polyimides from a novel monomer 3,6-bis(dimethylamino) acridine(p-cymene)dichlororuthenium(II) for a catalytic application**

Seckin T., Koytepe S., Ozdemir I., Gurbuz N., CETINKAYA B.

JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, cilt.14, sa.3, ss.177-190, 2004 (SCI-Expanded)

CCXC. **In situ generated palladium catalysts bearing 1,3-dialkylperimidin-2-ylidine ligands for Suzuki**

reactions of aryl chlorides

Ozdemir I., Alici B., Gurbuz N., CETINKAYA E., CETINKAYA B.

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CCXCI. Palladium-catalyzed Suzuki-Miyaura reaction using saturated N-heterocarbene ligands

Ozdemir I., CETINKAYA B., Demir S., Gurbuz N.

CATALYSIS LETTERS, cilt.97, ss.37-40, 2004 (SCI-Expanded)

CCXCII. Synthesis of arylacetic acid derivatives from diethyl malonate using in situ formed palladium(1,3-dialkylimidazolidin-2-ylidene) catalysts

Ozdemir I., YIGIT M., CETINKAYA E., CETINKAYA B.

TETRAHEDRON LETTERS, cilt.45, sa.30, ss.5823-5825, 2004 (SCI-Expanded)

CCXCIII. Surface modification of inorganic oxide particles with a carbene complex of palladium: A recyclable catalyst for the Suzuki reaction

Gurbuz N., Ozdemir I., Seckin T., CETINKAYA B.

JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, cilt.14, sa.2, ss.149-159, 2004 (SCI-Expanded)

CCXCIV. Synthetic and antimicrobial studies on new gold(I) complexes of imidazolidin-2-ylidenes

Ozdemir I., DENIZCI A., OZTURK H., CETINKAYA B.

APPLIED ORGANOMETALLIC CHEMISTRY, cilt.18, sa.7, ss.318-322, 2004 (SCI-Expanded)

CCXCV. Synthesis of novel rhodium-carbene complexes as efficient catalysts for addition of phenylboronic acid to aldehydes

Ozdemir I., DEMIR S., CETINKAYA B.

JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, cilt.215, sa.1-2, ss.45-48, 2004 (SCI-Expanded)

CCXCVI. Improved palladium-catalyzed coupling reactions of aryl halides using saturated N-heterocarbene ligands

Gurbuz N., Ozdemir I., Demir S., CETINKAYA B.

JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, cilt.209, ss.23-28, 2004 (SCI-Expanded)

CCXCVII. Synthesis of novel 1-alkylimidazoline and 1-alkylbenzimidazole palladium(II) complexes as efficient catalysts for Heck and Suzuki reactions involving arylchlorides

Ozdemir I., CETINKAYA B., DEMIR S.

JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, cilt.208, sa.1-2, ss.109-114, 2004 (SCI-Expanded)

CCXCVIII. Access to 3-methyl-4-methylene-N-tosylpyrrolidine and 3,4-dimethyl-N-tosylpyrrolidine by ruthenium-catalyzed cascade cycloisomerization/isomerization reactions

Ozdemir I., CETINKAYA E., CETINKAYA B., CICEK M., SEMERIL D., BRUNEAU C., DIXNEUF P.

EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, sa.2, ss.418-422, 2004 (SCI-Expanded)

CCXCIX. Synthesis and characterisation of N-functionalized enetetramines, and their properties

GOK Y., CETINKAYA E., Ozdemir I., CETINKAYA B., LAPPERT M.

ACTA CHIMICA SLOVENICA, cilt.51, sa.3, ss.437-446, 2004 (SCI-Expanded)

CCC. Crystal structure of dichloro-N-(3,4,5-trimethoxy-benzyl)-N-(n-butyl)]imidazolidin-2-ylideneruthenium(II), RuCl₂(C₁₇H₂₆N₂O₃)

ARSLAN H., VANDERVEER D., Ozdemir I., CETINKAYA B., DEMIR S.

ZEITSCHRIFT FUR KRISTALLOGRAPHIE-NEW CRYSTAL STRUCTURES, cilt.219, sa.4, ss.377-378, 2004 (SCI-Expanded)

CCCI. Palladium-catalyzed Suzuki reaction using 1,3-dialkylbenzimidazol-2-ylidene ligands in aqueous media

Ozdemir I., Gok Y., Gurbuz N., CETINKAYA E., CETINKAYA B.

HETEROATOM CHEMISTRY, cilt.15, sa.6, ss.419-423, 2004 (SCI-Expanded)

CCCII. Crystal structure of dichlorido(N-(biphenyl-2-ylmethyl)-N-(2-ethoxy-ethyl)]-imidazolidin-2-ylidene(eta(6)-hexamethylbenzene)ruthenium, Ru(C₁₂H₁₈)(C₂₀H₂₄N₂O)Cl₂

ARSLAN H., VANDERVEER D., Ozdemir I., CETINKAYA B., YASAR S.

ZEITSCHRIFT FUR KRISTALLOGRAPHIE-NEW CRYSTAL STRUCTURES, cilt.219, sa.1, ss.44-46, 2004 (SCI-Expanded)

CCCIII. Suzuki-Miyaura reaction of unactivated aryl chlorides using benzimidazol-2-ylidene ligands

- Ozdemir I., Gok Y., Gurbuz N., CETINKAYA E., CETINKAYA B.
SYNTHETIC COMMUNICATIONS, cilt.34, sa.22, ss.4135-4144, 2004 (SCI-Expanded)
- CCCIV. **Synthesis and catalytic properties of 1-alkyl-2-imidazolineruthenium(II) complexes**
Ozdemir I., CETINKAYA B., Demir S., CETINKAYA E., Gurbuz N., CICEK M.
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.18, sa.1, ss.15-18, 2004 (SCI-Expanded)
- CCCV. **Novel type of metal-containing polyimides for the heck and Suzuki-Miyaura cross-coupling reactions as highly active catalysts**
SECKIN T., KOYTEPE S., DEMIR S., Ozdemir I., CENTINKAYA B.
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, cilt.13, sa.4, ss.223-235, 2003 (SCI-Expanded)
- CCCVI. **Silica-supported 3-4,5-dihydroimidazol-1-yl-propyltriethoxysilanedithiopalladium(II) complex: Heck and Suzuki cross-coupling reactions**
Gurbuz N., Ozdemir I., CETINKAYA B., Seckin T.
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- CCCVII. **eta(6)-mesityl,eta(1)-imidazolinylidene-carbene-ruthenium(II) complexes: Catalytic activity of their allenylidene derivatives in alkene metathesis and cycloisomerisation reactions**
CETINKAYA B., DEMIR S., Ozdemir I., TOUPET L., SEMERIL D., BRUNEAU C., DIXNEUF P.
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- CCCVIII. **Syntheses and properties of metal containing polyimides based on the gold carbene complex**
SECKIN T., KOYTEPE S., Ozdemir I., CETINKAYA B.
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- CCCIX. **Synthesis and properties of novel polyimides from dichloro (1,3-p-dimethylaminobenzylimidazolidine-2-ylidene) p-cymene ruthenium (II)**
SECKIN T., KOYTEPE S., CETINKAYA B., Ozdemir I., YIGIT B.
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PC-3 Prostate Cancer Cells

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