

Prof. İSMAİL ÖZDEMİR

Personal Information

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International Researcher IDs

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ScopusID: 7005334934

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Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1989 - 1995

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1987 - 1989

Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1983 - 1987

Foreign Languages

English, B2 Upper Intermediate

Research Areas

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

Academic Titles / Tasks

Professor, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 2007 - Continues

Associate Professor, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 2002 - 2007

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 1997 - 2002

Research Assistant, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 1988 - 1997

Academic and Administrative Experience

Inonu University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2009 - Continues

Vice Rector, Inonu University, Fen-Edebiyat Fakültesi, 2009 - 2016

Inonu University, Fen Bilimleri Enstitüsü, 2008 - 2009

Inonu University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2000 - 2006

Inonu University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1999 - 2000

Courses

BİTİRME ÇALIŞMASI, Undergraduate, 2013-2014
METAL KARBON BAĞI İÇEREN BİLEŞİKLER VE ÖZELLİKLERİ, Undergraduate Minor, 2013-2014
KARBEN KOMPLEKSLERİ VE ÖZELLİKLERİ, Undergraduate Minor, 2013-2014
KOORDİNASYON KİMYASI, Undergraduate Double Major, 2013-2014
ANIORGANİK KİMYA LAB, Undergraduate, 2013-2014
ANORGANİK KİMYA III, Undergraduate, 2013-2014
ORGANOMETALİK KİMYA, Undergraduate Double Major, 2013-2014
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KARBEN KOMPLEKSLERİ VE ÖZELLİKLERİ, Undergraduate Minor, 2000-2001
ANIORGANİK KİMYA LAB, Undergraduate, 2000-2001

Advising Theses

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

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

ÖZDEMİR İ., N-koordine metal komplekslerinin sentezi ve özellikleri, Postgraduate, N.ŞAHİN(Student), 2005

ÖZDEMİR İ., İşlevsel grup içeren diaminokarben kompleksleri ve özellikleri, Postgraduate, S.YAŞAR(Student), 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- 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, vol.47, no.5, pp.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.
JOURNAL OF COORDINATION CHEMISTRY, vol.76, no.1, pp.120-133, 2023 (SCI-Expanded)
- 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.
CHEMICAL PAPERS, vol.77, no.1, pp.423-435, 2023 (SCI-Expanded)
- 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.
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.36, no.23-24, pp.2665-2687, 2022 (SCI-Expanded)
- 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.
ARCHIV DER PHARMAZIE, vol.355, no.12, 2022 (SCI-Expanded)
- VI. **Vinyl functionalized 5,6-dimethylbenzimidazolium salts: Synthesis and biological activities**
Karaca E. Ö., Bingöl Z., Gürbüz N., Özdemir İ., Gülçin İ.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, no.-, pp.23255-23263, 2022 (SCI-Expanded)
- 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**
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)
- 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.
JOURNAL OF MOLECULAR STRUCTURE, vol.1265, 2022 (SCI-Expanded)
- 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.
MOLECULES, vol.27, no.20, 2022 (SCI-Expanded)
- 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, vol.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, vol.1264, 2022 (SCI-Expanded)
- 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.
HELIYON, vol.8, no.8, 2022 (SCI-Expanded)

- 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.
TURKISH JOURNAL OF CHEMISTRY, vol.46, pp.1097-1109, 2022 (SCI-Expanded)
- 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.
CATALYSIS LETTERS, vol.152, no.7, pp.2012-2024, 2022 (SCI-Expanded)
- 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, vol.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., Yildiz H., DEMİR DÜŞÜNCELİ S., ÖZDEMİR İ.
ARCHIV DER PHARMAZIE, vol.355, no.6, 2022 (SCI-Expanded)
- 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.
CATALYSIS LETTERS, vol.152, no.6, pp.1621-1638, 2022 (SCI-Expanded)
- 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.
MOLECULAR CATALYSIS, vol.526, 2022 (SCI-Expanded)
- 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.
JOURNAL OF COORDINATION CHEMISTRY, vol.75, no.5-6, pp.645-667, 2022 (SCI-Expanded)
- 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, vol.36, no.5, 2022 (SCI-Expanded)
- 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**
Slimani I., Boubakri L., Ozdemir N., Mansour L., Ozdemir İ., Gurbuz N., Yasar S., Sauthier M., Hamdi N.
INORGANICA CHIMICA ACTA, vol.532, 2022 (SCI-Expanded)
- 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.
HETEROCYCLES, vol.104, no.7, pp.1268-1279, 2022 (SCI-Expanded)
- XXIII. **Selenourea and thiourea derivatives of chiral and achiral enetetramines: Synthesis, characterization and enzyme inhibitory properties**
YİĞİT M., BARUT CELEPCİ D., Taslimi P., YİĞİT B., Cetinkaya E., ÖZDEMİR İ., AYGÜN M., GÜLÇİN İ.
BIOORGANIC CHEMISTRY, vol.120, 2022 (SCI-Expanded)
- 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.

INORGANIC AND NANO-METAL CHEMISTRY, vol.52, no.4, pp.493-504, 2022 (SCI-Expanded)

- XXV. **4,5-Dihydro-imidazol-2-ylidene-linked palladium complexes as catalysts for the direct C-H bond arylation of azoles**
Kaloğlu M., Özdemir N., Özdemir İ.
APPLIED ORGANOMETALLIC CHEMISTRY, 2022 (SCI-Expanded)
- 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.
JOURNAL OF MOLECULAR STRUCTURE, vol.1248, 2022 (SCI-Expanded)
- XXVII. **Highly Efficient Single A(3)-Coupling (Aldehyde-Amine-Alkyne) Reaction Catalyzed by Air Stable Silver-(N-Heterocyclic Carbene) Complexes: Synthesis and Characterization**
Hamdi N., Mnasri A., S. Al Nasr I., S. Koko W., Khan T. A., ÖZDEMİR İ., GÜRBÜZ N.
POLYCYCLIC AROMATIC COMPOUNDS, 2022 (SCI-Expanded)
- XXVIII. **Synthesis of N-heterocyclic carbene-based silver complexes and their antimicrobial properties against bacteria and fungi**
KALOĞLU M., Kaloglu N., GÜNAL S., ÖZDEMİR İ.
JOURNAL OF COORDINATION CHEMISTRY, vol.74, no.17-20, pp.3031-3047, 2022 (SCI-Expanded)
- XXIX. **Rhodium(I) complexes with N-heterocyclic carbene ligands: synthesis, biological properties and catalytic activity in the hydrosilylation of aromatic ketones**
Hamdi N., Slimani I., Mansour L., Alresheedi F., ÖZDEMİR İ., GÜRBÜZ N.
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Özdemir İ., TÜBİTAK 2005 yılı Genç Bilim Adamı Teşvik Ödülü, Tübitak, July 2005