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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-3069-2016

ScopusID: 6602553450

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Education Information

Doctorate, Inonu University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1996 - 2002

Postgraduate, Inonu University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1992 - 1995

Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1988 - 1992

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, 2011 - Continues

Associate Professor, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 2013 - 2016

Research Assistant, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 1993 - 2013

Academic and Administrative Experience

Manager of Research and Application Center, Inonu University, 2014 - Continues

Rectorate Commissioner, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 2008 - 2016

Courses

BİTİRME ÇALIŞMASI, Undergraduate, 2013-2014

GENEL KİMYA LAB., Undergraduate, 2013-2014

ANORGANİK KİMYA LAB., Undergraduate, 2013-2014
ANORGANİK BİLEŞİKLERİN AYRILMASI, Undergraduate Double Major, 2013-2014
METALLER KİMYASI, Undergraduate, 2013-2014
GENEL KİMYA II, Undergraduate, 2012-2013
ANORGANİK KİMYA III, Undergraduate, 2012-2013
ANORGANİK KİMYA II, Undergraduate, 2012-2013
ANORGANİK KİMYA I, Undergraduate, 2012-2013
METALLER KİMYASI, Undergraduate, 2012-2013
ANORGANİK KİMYA LAB., Undergraduate, 2011-2012
METALLER KİMYASI, Undergraduate, 2011-2012
GENEL KİMYA II, Undergraduate, 2011-2012
ANORGANİK KİMYA I, Undergraduate, 2011-2012
ANORGANİK KİMYA II, Undergraduate, 2011-2012
ANORGANİK BİLEŞİKLERİN AYRILMASI, Undergraduate Double Major, 2011-2012
BİTİRME ÇALIŞMASI, Undergraduate, 2011-2012
GENEL KİMYA II, Undergraduate, 2010-2011
BİTİRME ÇALIŞMASI, Undergraduate, 2010-2011
METALLER KİMYASI, Undergraduate, 2010-2011
ANORGANİK KİMYA LAB., Undergraduate, 2010-2011
GENEL KİMYA, Undergraduate, 2010-2011
ANORGANİK TEKNOLOJİ, Undergraduate, 2010-2011
GENEL KİMYA II, Undergraduate, 2010-2011
ANORGANİK KİMYA I, Undergraduate, 2010-2011
ANORGANİK KİMYA III, Undergraduate, 2010-2011
GENEL KİMYA LAB., Undergraduate, 2010-2011
GENEL KİMYA, Undergraduate, 2010-2011
ANORGANİK KİMYA II, Undergraduate, 2010-2011
ANORGANİK BİLEŞİKLERİN AYRILMASI, Undergraduate Double Major, 2009-2010
ANORGANİK KİMYA LAB., Undergraduate, 2009-2010
ANORGANİK TEKNOLOJİ, Undergraduate, 2009-2010
GENEL KİMYA, Undergraduate, 2009-2010
METALLER KİMYASI, Undergraduate, 2009-2010
ANORGANİK BİLEŞİKLERİN AYRILMASI, Undergraduate Double Major, 2008-2009
GENEL KİMYA, Undergraduate, 2008-2009

Advising Theses

GÜRBÜZ N., KÜNKÜL A., Homojen Katalizörlerin Heterojenleştirilmesi ve Özelliklerinin İncelenmesi, Doctorate, C.Boztepe(Student), 2017
GÜRBÜZ N., Ni, Pd N-heterosiklik karben kompleksleri ve özellikleri, Doctorate, D.KILINÇ(Student), 2016
GÜRBÜZ N., Tetrahidropirimidin içeren karben öncüllerinin sentezi ve özellikleri, Doctorate, E.ÖZGE(Student), 2015
GÜRBÜZ N., Metal katalizli süstitüye amin sentezi, Postgraduate, Z.ŞAHİN(Student), 2014
GÜRBÜZ N., Karben katalizörlüğünde ketonların indirgenmesi, Postgraduate, E.ÖZGE(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Synthesis, characterisation, anticancer and antimicrobial activity of Ag-N-heterocyclic carbene complexes containing benzimidazole derivatives**

Karci H., Dündar M., Nawaz Z., Özdemir İ., Gürbüz N., Koç A., Özdemir İ., Mansour L., Hamdi N.

INORGANICA CHIMICA ACTA, vol.565, pp.121992, 2024 (SCI-Expanded)

- II. **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)
- III. **Synthesis, antimicrobial activity and molecular docking study of benzyl functionalized benzimidazole silver(I) complexes**
Arı E., Şahin N., Üstün E., Dündar M., Karci H., Özdemir İ., Koç A., Gürbüz N., Özdemir İ.
JBIC Journal of Biological Inorganic Chemistry, vol.28, pp.725-736, 2023 (SCI-Expanded)
- IV. **N-alkylbenzimidazole silver(I) complexes: Synthesis, biological evaluation and molecular docking study**
Arı E., Şahin N., Üstün E., Dündar M., Karcı H., Özdemir İ., Koç A., Gürbüz N., Özdemir İ.
POLYHEDRON, no. 1873-3719, pp.1873-3719, 2023 (SCI-Expanded)
- V. **Synthesis, crystal structure, DFT studies and catalytic activity of an N-(2,2-dimethyl-1,3-dioxolane-4-yl-methyl)benzimidazole ruthenium(II) hydrate complex**
Özdemir N., Karabekmez F. D., Karaca E. Ö., Gürbüz N., Özdemir İ.
JOURNAL OF MOLECULAR STRUCTURE, vol.1281, pp.1281, 2023 (SCI-Expanded)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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.

INORGANICA CHIMICA ACTA, vol.532, 2022 (SCI-Expanded)

- XIV. **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)
- XV. **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)
- XVI. **Antimicrobial activity, inhibition of biofilm formation, and molecular docking study of novel Ag-NHC complexes**
ŞAHİN N., Ustun E., TUTAR U., ÇELİK C., GÜRBÜZ N., ÖZDEMİR İ.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.954, 2021 (SCI-Expanded)
- XVII. **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.
JOURNAL OF COORDINATION CHEMISTRY, vol.74, no.15, pp.2558-2579, 2021 (SCI-Expanded)
- XVIII. **Synthesis, characterization, antimicrobial and antibiofilm activity, and molecular docking analysis of NHC precursors and their Ag-NHC complexes**
ÜSTÜN E., ŞAHİN N., ÇELİK C., TUTAR U., Ozdemir N., GÜRBÜZ N., ÖZDEMİR İ.
DALTON TRANSACTIONS, vol.50, no.42, pp.15400-15412, 2021 (SCI-Expanded)
- XIX. **Direct arylation (hetero-coupling) of heteroarenes via unsymmetrical palladium-PEPPSI-NHC type complexes**
Nawaz Z., Gürbüz N., Zafar M. N., Tahir M. N., Ashfaq M., Karci H., Özdemir İ.
POLYHEDRON, vol.208, 2021 (SCI-Expanded)
- XX. **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**
Hamdi N., Slimani I., Mansour L., Alresheedi F., Gurbuz N., Ozdemir İ.
NEW JOURNAL OF CHEMISTRY, vol.45, no.45, pp.21248-21262, 2021 (SCI-Expanded)
- XXI. **Synthesis of new Pd(NHC)-PEPPSI type complexes as catalysts toward C-C cross-coupling reactions**
Nawaz Z., Gürbüz N., Zafar M. N., Özdemir N., Habib U., Jan K., Özdemir İ.
JOURNAL OF MOLECULAR STRUCTURE, vol.1243, 2021 (SCI-Expanded)
- XXII. **The direct C(sp²)-H functionalization and coupling of aromatic N-heterocycles with (hetero)aryl bromides by [PdX₂(imidazolidin-2-ylidene)(Py)] catalysts**
Kaloğlu M., Slimani I., Özdemir N., Gürbüz N., Hamdi N., Özdemir İ.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.951, 2021 (SCI-Expanded)
- XXIII. **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.
NEW JOURNAL OF CHEMISTRY, vol.45, no.38, pp.17878-17892, 2021 (SCI-Expanded)
- XXIV. **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**
Sandeli A. E., Khiri-Meribout N., Benzerka S., GÜRBÜZ N., DÜNDAR M., Karci H., Bensouici C., Mokrani E. H., ÖZDEMİR İ., KOÇ A., et al.
INORGANICA CHIMICA ACTA, vol.525, 2021 (SCI-Expanded)
- XXV. **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.
ARCHIV DER PHARMAZIE, vol.354, no.9, 2021 (SCI-Expanded)
- XXVI. **PEPPSI type complexes: Synthesis, x-ray structures, spectral studies, molecular docking and theoretical investigations**
SERDAROĞLU G., ŞAHİN N., Ustun E., Tahir M. N., Arici C., GÜRBÜZ N., ÖZDEMİR İ.
POLYHEDRON, vol.204, 2021 (SCI-Expanded)
- XXVII. **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., Dundar M., Karci H., ÖZDEMİR İ., KOÇ A., et al.
JOURNAL OF MOLECULAR STRUCTURE, vol.1238, 2021 (SCI-Expanded)
- XXVIII. **Half-sandwich Ru(II) arene complexes bearing benzimidazole ligands for the N-alkylation reaction of aniline with alcohols in a solvent-free medium**
Cicek M., GÜRBÜZ N., ÖZDEMİR N., ÖZDEMİR İ., İSPİR E.
NEW JOURNAL OF CHEMISTRY, vol.45, no.25, pp.11075-11085, 2021 (SCI-Expanded)
- XXIX. **A new PEPPSI type N-heterocyclic carbene palladium(II) complexes and its efficiency as a catalyst for Mizoroki-Heck cross-coupling reactions in water : Synthesis, Characterization and their antimicrobial and Cytotoxic activities**
Mnasri A., Al-Ayed A. S., Ozdeir I., Gürbüz N., Naceur H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1234, 2021 (SCI-Expanded)
- XXX. **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.
POLYHEDRON, vol.199, 2021 (SCI-Expanded)
- XXXI. **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.
JOURNAL OF CHEMICAL RESEARCH, vol.45, pp.596-607, 2021 (SCI-Expanded)
- XXXII. **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, vol.520, 2021 (SCI-Expanded)
- XXXIII. **Pd-PEPPSI: X-ray Structure, Spectroscopic Analyses, and Quantum Mechanical Studies**
Kilic-Cikla I., ŞAHİN N., ÖZDEMİR N., GÜRBÜZ N., ÖZDEMİR İ.
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A, vol.95, 2021 (SCI-Expanded)
- XXXIV. **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.
NEW JOURNAL OF CHEMISTRY, vol.45, no.11, pp.5176-5183, 2021 (SCI-Expanded)
- XXXV. **Synthesis, characterization and catalytic activity of PEPPSI-type palladium-NHC complexes**
Slimani I., Mansour L., ÖZDEMİR İ., GÜRBÜZ N., Hamdi N.
INORGANICA CHIMICA ACTA, vol.515, 2021 (SCI-Expanded)
- XXXVI. **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.
JOURNAL OF THE BRAZILIAN CHEMICAL SOCIETY, vol.31, no.10, pp.2058-2070, 2020 (SCI-Expanded)
- XXXVII. **Reduction hydrogenation of imines by in situ generated rhodium NHC complexes**
KARACA E. Ö., Dusunceli S., GÜRBÜZ N., ÖZDEMİR İ.
JOURNAL OF MOLECULAR STRUCTURE, vol.1216, 2020 (SCI-Expanded)
- XXXVIII. **Azo-azomethine based palladium(II) complexes as catalysts for the Suzuki-Miyaura cross-coupling reaction**
Sunbul A. B., Inan A., Kose M., Evren E., GÜRBÜZ N., ÖZDEMİR İ., İkiz M., Dag A. K., Ispir E.
JOURNAL OF MOLECULAR STRUCTURE, vol.1216, 2020 (SCI-Expanded)

- XXXIX. **Silver(I) N-heterocyclic carbene complexes: Synthesis, characterization and cytotoxic properties**
GÜRBÜZ N., Kaloğlu N., Kızrak Ü., ÖZDEMİR İ., Türkmen N. B., Çiftçi O., Özdemir İ., Mansour L., Naceur H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.923, 2020 (SCI-Expanded)
- XL. **Silver(I) N-heterocyclic carbene complexes: Synthesis, characterization and cytotoxic properties**
Gürbüz N., Kaloğlu N., Kızrak Ü., Özdemir İ., Başak Türkmen N., Çiftçi O., Özdemir İ., Mansour L., Naceur H.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.1, no.923, pp.1-8, 2020 (SCI-Expanded)
- XLI. **First used of Alkylbenzimidazole-Cobalt(II) complexes as a catalyst for the N -Alkylation of amines with alcohols under solvent -free medium**
ŞAHİN N., Yildirim I., ÖZDEMİR N., GÜRBÜZ N., ÖZDEMİR İ.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.918, 2020 (SCI-Expanded)
- XLII. **Hydrogel supported vinylimidazole based PEPPSI-Pd-NHC catalysts: The catalytic activities in Heck and Suzuki-Miyaura coupling reactions**
BOZTEPE C., KÜNKÜL A., GÜRBÜZ N.
JOURNAL OF MOLECULAR STRUCTURE, vol.1209, 2020 (SCI-Expanded)
- XLIII. **Synthesis, characterization and antitumor properties of novel silver(I) and gold(I) N-heterocyclic carbene complexes**
ÖZDEMİR İ., ÇİFTÇİ O., Evren E., GÜRBÜZ N., Kaloğlu N., BAŞAK TÜRKMEN N., YAŞAR Ş., ÜSTÜN E., Hamdi N., Mansour L., et al.
INORGANICA CHIMICA ACTA, vol.506, 2020 (SCI-Expanded)
- XLIV. **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.
NEW JOURNAL OF CHEMISTRY, vol.44, no.14, pp.5309-5323, 2020 (SCI-Expanded)
- XLV. **Synthesis, structural characterization of silver(I)-NHC complexes and their antimicrobial, antioxidant and antitumor activities**
Slimani I., Mansour L., Abutaha N., Harrath A. H., Al-Tamimi J., Gürbüz N., Ozdemir İ., Hamdi N.
Journal of King Saud University - Science, vol.32, no.2, pp.1544-1554, 2020 (SCI-Expanded)
- XLVI. **Arylation of heterocyclic compounds by benzimidazole-based N-heterocyclic carbene-palladium(II) complexes**
ŞAHİN N., GÜRBÜZ N., KARABIYIK H., KARABIYIK H., ÖZDEMİR İ.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.907, 2020 (SCI-Expanded)
- XLVII. **Well-defined PEPPSI-themed palladium-NHC complexes: synthesis, and catalytic application in the direct arylation of heteroarenes**
KALOĞLU M., GÜRBÜZ N., Yildirim I., ÖZDEMİR N., ÖZDEMİR İ.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.34, no.2, 2020 (SCI-Expanded)
- XLVIII. **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, vol.499, 2020 (SCI-Expanded)
- XLIX. **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, vol.175, 2020 (SCI-Expanded)
- L. **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.
INTERNATIONAL JOURNAL OF CHEMICAL KINETICS, vol.51, no.12, pp.931-942, 2019 (SCI-Expanded)
- LI. **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.
TRANSITION METAL CHEMISTRY, vol.44, no.6, pp.565-573, 2019 (SCI-Expanded)

- LII. **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.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.33, no.7, 2019 (SCI-Expanded)
- LIII. **Synthesis, characterization and anticancer activity of allyl substituted N-Heterocyclic carbene silver(I) complexes**
ŞAHİN N., ŞAHİN BÖLÜKBAŞI S., Tahir M. N., Arici C., Cevik E., GÜRBÜZ N., ÖZDEMİR İ., Cummings B. S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1179, pp.92-99, 2019 (SCI-Expanded)
- LIV. **Amine-functionalized silver and gold N-heterocyclic carbene complexes: Synthesis, characterization and antitumor properties**
Kızrak U., ÇİFTÇİ O., ÖZDEMİR İ., GÜRBÜZ N., DEMİR DÜŞÜNCELİ S., KALOĞLU M., Mansour L., Zaghrouba F., Hamdi N., ÖZDEMİR İ.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.882, pp.26-32, 2019 (SCI-Expanded)
- LV. **Novel N-heterocyclic carbene silver(I) complexes: Synthesis, structural characterization, and anticancer activity**
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