

## Prof. Dr. Namık Özdemir



### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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ScopusID: 8398877200

Yoksis Araştırmacı ID: 35762

### Eğitim Bilgileri

Doktora, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), Türkiye 2004 - 2010

Yüksek Lisans, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli),  
Türkiye 2000 - 2003

Lisans, Atatürk Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1995 - 2000

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Yaptığı Tezler

Doktora, Bazı piridin-2,6-diimin metal komplekslerinin kristal ve moleküler yapılarının deneyel ve teorik yöntemlerle incelenmesi, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 2010

Yüksek Lisans, Tek kristal x-işinleri kırınımı yöntemiyle C15H13ClN4O, C21H19NO3 ve C21H20N2O3 moleküllerinin kristal yapı analizleri, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2003

### Araştırma Alanları

Kataliz ve Katalitik Süreçler, Fizik, Katı ve sıvı yapılar, kristalografi, Elektronik yapı, arayüzeylerin, ince filmlerin ve düşük boyutlu yapıların elektrik özellikleri, Kataliz, Koordinasyon Kimyası, Organik Spektroskopi, Organometalik Bileşikler

## Akademik Unvanları / Görevler

Prof. Dr., Ondokuz Mayıs Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2024 - Devam Ediyor  
Doç. Dr., Ondokuz Mayıs Üniversitesi, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2016 - 2024  
Araştırma Görevlisi, Ondokuz Mayıs Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2010 - 2016  
Araştırma Görevlisi, Ondokuz Mayıs Üniversitesi, Lisansüstü Eğitim Enstitüsü, Fizik Anabilim Dalı, 2006 - 2010

## Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, Ondokuz Mayıs Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2024 - Devam Ediyor  
Bölüm Başkan Yardımcısı, Ondokuz Mayıs Üniversitesi, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2020 - 2022

## Verdiği Dersler

FZAE101 Mekanik 1, Lisans, 2022 - 2023, 2021 - 2022, 2019 - 2020  
FZAE103 Mekanik Laboratuvarı I, Lisans, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
TBFİZ123 Fizik I, Lisans, 2022 - 2023  
TBFİZ113 Fizik I, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020  
FZAE104 Mekanik Laboratuvarı II, Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020  
FZAE102 Mekanik II, Lisans, 2021 - 2022, 2020 - 2021  
TBFİZ116 Fizik II, Lisans, 2020 - 2021  
TBFİZ115 Fizik I, Lisans, 2020 - 2021  
TBFİZ107 Fizik I, Lisans, 2020 - 2021, 2019 - 2020  
FZAE101 Mekanik I, Lisans, 2020 - 2021  
FBÖ416 Öğretmenlik Uygulaması, Lisans, 2019 - 2020  
TBFİZ114 Fizik II, Lisans, 2019 - 2020  
FZO403 Atom ve Moleküller Fiziği I, Lisans, 2018 - 2019, 2017 - 2018  
FFİ860 Uzmanlık Alan Dersi II, Yüksek Lisans, 2018 - 2019, 2017 - 2018  
IMÖ406 Öğretmenlik Uygulaması, Lisans, 2018 - 2019  
TBFİZ105 Fizik I, Lisans, 2018 - 2019, 2017 - 2018  
TBFİZ106 Fizik II, Lisans, 2018 - 2019, 2017 - 2018  
FFİ859 Uzmanlık Alan Dersi I, Yüksek Lisans, 2018 - 2019  
FZO305 Fizikte Matematik Yöntemleri I, Lisans, 2018 - 2019, 2017 - 2018, 2016 - 2017  
EGT412 Öğretmenlik Uygulaması, Lisans, 2017 - 2018  
SNÖ210 Fen ve Teknoloji Laboratuvar Uygulamaları II, Lisans, 2017 - 2018  
FZÖ506 Öğretmenlik Uygulaması, Lisans, 2017 - 2018, 2016 - 2017  
FZÖ404 Klasik Mekanik, Lisans, 2016 - 2017  
FZO303 İstatistik Fizik, Lisans, 2016 - 2017  
FZÖ505 Okul Deneyimi, Lisans, 2016 - 2017  
FZÖ403 İstatistik Fizik, Lisans, 2016 - 2017  
FZO304 Klasik Mekanik, Lisans, 2016 - 2017

## Yönetilen Tezler

Özdemir N., Bazı Organik Hidroksi-Sübstitüe Salisilaldehit Tiyosemikarbazon İzomerlerinin Deneysel ve Teorik Yöntemlerle İncelenmesi, Yüksek Lisans, E.ŞEN(Öğrenci), 2019

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

- I. Characterization of the synthesized diaqua-bis(indazole- $\kappa$ N2)bis (nitrato- $\kappa$ O)zinc(II) complex and DFT calculations  
Kucuk C., Celik S., Yurdakul S., Özdemir N., Bülbül H.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1304, 2024 (SCI-Expanded)
- II. Palladium(II) complexes bearing thioether-NHC ligand: Synthesis, characterization, and their application in Suzuki-Miyaura coupling  
Efecik A., Firinci R., Özdemir N., Bülbül H., Günay M. E.  
INORGANICA CHIMICA ACTA, cilt.563, 2024 (SCI-Expanded)
- III. Synthesis of palladium complexes containing benzimidazole core and their catalytic activities in direct arylation of heteroaromatic species  
Seker S., Ulu O. D., GÜRBÜZ N., Özdemir N., ÖZDEMİR İ., Bülbül H.  
JOURNAL OF COORDINATION CHEMISTRY, 2024 (SCI-Expanded)
- IV. Novel Benzotriazole- $\beta$ -lactam Derivatives as Antimalarial Agents: Design, Synthesis, Biological Evaluation and Molecular Docking Studies  
Aye M., Jarrahpour A., Haghijoo Z., Heiran R., Pournejati R., Karbalaei-Heidari H. R., Sinou V., Brunel J. M., AKKURT M., Oezdemir N., et al.  
CHEMISTRY & BIODIVERSITY, cilt.21, sa.2, 2024 (SCI-Expanded)
- V. Catalytic and biological properties of palladium(II) complexes with bidentate Schiff base ligands  
Ozgur G. K., Dervisoglu G., Ozdemir F. A., Özdemir N., Serbetci Z., DAYAN O.  
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.38, sa.2, 2024 (SCI-Expanded)
- VI. Synthesis, crystal structure and spectroscopic studies of a new silver complex derived from [1-(3-pyridinyl) ethanone]  
Celik S., Atlgan A., Alp M., Yurdakul S., Demircioğlu Z., Özdemir N., Büyükgüngör O.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1294, 2023 (SCI-Expanded)
- VII. New indolo- $\beta$ -lactam hybrids as potential anticancer and anti-inflammatory agents  
Ghaffari S., Jarrahpour A., Özdemir N., Brunel J. M., Rastegari B., Riazimontazer E., Turos E.  
MEDICINAL CHEMISTRY RESEARCH, cilt.32, sa.12, ss.2516-2534, 2023 (SCI-Expanded)
- VIII. EXPERIMENTAL AND THEORETICAL CHARACTERIZATION OF 3-(3,5-DIMETHYLBENZYL)-1-METHYL-3,4,5,6-TETRAHYDROPRIMIDINIUM TRICHLORIDO( $\eta$ <sup>6</sup>-p-CYMENE)RUTHENATE(II)  
Özdemir N., Karaca E. Ö., Gürbüz N., Özdemir İ.  
JOURNAL OF STRUCTURAL CHEMISTRY, cilt.64, sa.11, ss.2167-2177, 2023 (SCI-Expanded)
- IX. AN IMIDAZOLIDIN-2-YLIDENE-BASED Pd-PEPSSI COMPLEX: AN EXPERIMENTAL AND THEORETICAL APPROACH  
Özdemir N., Kaloglu M., Özdemir İ.  
JOURNAL OF STRUCTURAL CHEMISTRY, cilt.64, sa.11, ss.2120-2129, 2023 (SCI-Expanded)
- X. Antimicrobial activities of bis-(N-alkylbenzimidazole)-cobalt(II) and zinc (II) complexes  
Şahin N., Üstün E., Özdemir İ., Günal S., Özdemir N., Bülbül H., Gürbüz N., Özdemir İ., Sémeril D.  
INORGANIC CHEMISTRY COMMUNICATIONS, cilt.157, 2023 (SCI-Expanded)
- XI. Benzimidazol-2-ylidene Silver Complexes: Synthesis, Characterization, Antimicrobial and Antibiofilm Activities, Molecular Docking and Theoretical Investigations  
Tutar U., Çelik C., Üstün E., Özdemir N., Şahin N., Sémeril D., Gürbüz N., Özdemir İ.  
INORGANICS, cilt.11, sa.10, 2023 (SCI-Expanded)
- XII. Ruthenium, rhodium and iridium complexes of a silyl-substituted N-heterocyclic carbene ligand and their catalytic performance in hydrosilylation of terminal alkynes  
MUMCU A., KARATAŞ M. O., Özdemir N., ERDOĞAN A., KÜÇÜKBAY H.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.997, 2023 (SCI-Expanded)
- XIII. Biological determination, molecular docking and Hirshfeld surface analysis of rhodium(I)-N-heterocyclic carbene complex: Synthesis, crystal structure, DFT calculations, optical and non linear optical properties  
Zouaghi M. O., Amri N., Hassen S., Arfaoui Y., Özdemir N., ÖZDEMİR İ., Hamdi N.  
INORGANICA CHIMICA ACTA, cilt.551, 2023 (SCI-Expanded)

- XIV. **Synthesis, experimental and theoretical characterization of an unsymmetrical bis-benzimidazolium nitrate salt**  
Özdemir N., KARATAŞ M. O., KÜÇÜKBAY H.  
MOLECULAR CRYSTALS AND LIQUID CRYSTALS, cilt.758, sa.1, ss.25-35, 2023 (SCI-Expanded)
- XV. **Synthesis, crystal structure, DFT studies and catalytic activity of an N-(2,2-dimethyl-1,3-dioxolane-4yl-methyl)benzimidazole ruthenium(II) hydrate complex**  
Özdemir N., Karabekmez F. D., KARACA E. Ö., GÜRBÜZ N., ÖZDEMİR İ.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1281, 2023 (SCI-Expanded)
- XVI. **Synthesis, crystallographic structure, theoretical analysis, molecular docking studies, electronic properties and biological activity evaluation of ruthenium-complex bearing N-heterocyclic carbene ligand**  
Slimani I., Amri N., Mukhrish Y. E., GÜRBÜZ N., ÖZDEMİR İ., Ghalla H., Özdemir N., Mansour L., Hamdi N.  
NEW JOURNAL OF CHEMISTRY, cilt.47, sa.24, ss.11708-11722, 2023 (SCI-Expanded)
- XVII. **Structural and spectroscopic characterization, electronic properties, and biological activity of the 4-(3-methoxyphenyl)piperazin-1-i um 4-(3-methoxyphenyl)piperazine-1-carboxylate monohydrate**  
Kucuk C., YURDAKUL Ş., Özdemir N., ERDEM B.  
CHEMICAL PAPERS, cilt.77, sa.5, ss.2793-2815, 2023 (SCI-Expanded)
- XVIII. **Synthesis of a cationic ruthenium(ii) complex and its non-enzymatic glucose-sensing properties**  
DAYAN S., Özdemir N., ERDENER ÇIRALI D., DAYAN O., cetinkaya B.  
NEW JOURNAL OF CHEMISTRY, cilt.47, ss.10187-10194, 2023 (SCI-Expanded)
- XIX. **Crystal structure, vibrational spectroscopy, <sup>1</sup>H NMR, and DFT analyses with antibacterial activity studies on silver nitrate complex of 5-iodoindole**  
Kucuk C., YURDAKUL Ş., Özdemir N., ERDEM B.  
INORGANIC CHEMISTRY COMMUNICATIONS, cilt.150, 2023 (SCI-Expanded)
- XX. **Simultaneous reduction of 4-nitrophenol, 4-nitroaniline and methylene blue organic pollutants via TiO<sub>2</sub> supported Pd(II) complex catalyst bearing 2-(6-methylpyridin-2-yl)-1H-benzimidazole type ligand**  
TERCAN YAVAŞOĞLU M., DAYAN O., Özdemir N.  
POLYHEDRON, cilt.232, 2023 (SCI-Expanded)
- XXI. **Synthesis, Experimental and Theoretical Characterization of ( $\mu$ -<sub>4</sub>-oxo)hexakis( $\mu$ -<sub>2</sub>-chloro)-tetrakis[1-(allyl)-1*i*-H-*i*-imidazole]tetracopper (II)**  
Özdemir N., Firinci R., Günay M. E.  
CROATICA CHEMICA ACTA, cilt.96, sa.1, ss.1-8, 2023 (SCI-Expanded)
- XXII. **Benzimidazol-2-ylidene ruthenium complexes for C-N bond formation through alcohol dehydrogenation**  
Nawaz Z., Gürbüz N., Zafar M. N., Özdemir N., Çetinkaya B., Özdemir İ.  
TURKISH JOURNAL OF CHEMISTRY, cilt.47, sa.5, ss.1209-1223, 2023 (SCI-Expanded)
- XXIII. **Cu(I)-*N*-heterocyclic carbene complexes bearing a naphthyl substituent: synthesis, characterization, and antimicrobial activities**  
Tokatlı A., Demir B., Kılıç N., Kurt Kızıldoğan A., Otur Ç., Kilinçarslan R., Karakaş H., Özdemir N., Bülbül H.  
JOURNAL OF COORDINATION CHEMISTRY, cilt.76, sa.13-15, ss.1745-1762, 2023 (SCI-Expanded)
- XXIV. **A hydrazine-bridged dinuclear ruthenium complex: Structural properties and biological activity**  
ERDENER ÇIRALI D., Dervisoglu G., ÖZDEMİR F. A., ŞERBETÇİ Z., Özdemir N., DAYAN O.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1272, 2023 (SCI-Expanded)
- XXV. **Cu(II)(PhOMe-Salophen) Complex: Greener Pasture Biological Study, XRD/HAS Interactions, and MEP**  
Sengupta U., Periyasamy M., Mukhopadhyay S., Hasija A., Chopra D., oezdemir N., Said M. A., Bera M. K.  
RUSSIAN JOURNAL OF INORGANIC CHEMISTRY, cilt.67, sa.SUPPL 2, 2022 (SCI-Expanded)
- XXVI. **Silyl-functionalised silver rhodium and iridium N-heterocyclic carbene complexes with promising cytotoxicity and antimicrobial potential**  
KARATAŞ M. O., Keskin T., Özdemir N., KÜÇÜKBAY H., TEKİN S., Mansur A., GÜNAL S., SANDAL S.

- INORGANIC CHEMISTRY COMMUNICATIONS, cilt.146, 2022 (SCI-Expanded)
- XXVII. **N,S-heterocyclic carbene containing benzothiazol-2-ylidene-Ru(II) and Pd (II) new complexes functionalized with butyl linked carbazole moiety: Synthesis, characterization and their catalytic efficiency and electropolymerizations**  
Karakas H., Guzel M., AK M., KILINÇARSLAN R., Özdemir N.  
EUROPEAN POLYMER JOURNAL, cilt.181, 2022 (SCI-Expanded)
- XXVIII. **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., Özdemir N., ÖZDEMİR İ., GÜRBÜZ N., Mansour L., Gatri R., Hamdi N.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1265, 2022 (SCI-Expanded)
- XXIX. **Synthesis, spectroscopic characterization and antimicrobial properties of silyl-tethere d benzimidazolium salts**  
YİĞİT M., ŞIRECİ N., GÜNAL S., Onderci M., Özdemir N., Arinc A., YİĞİT B., ÖZDEMİR İ.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1264, 2022 (SCI-Expanded)
- XXX. **Synthesis, in-vitro biological evaluation, and molecular docking study of novel spiro-beta-lactam-isatin hybrids**  
Jarrahpour A., Jowkar Z., Haghijoo Z., Heiran R., Rad J. A., Sinou V., Rouvier F., Latour C., Brunel J. M., Özdemir N.  
MEDICINAL CHEMISTRY RESEARCH, cilt.31, sa.6, ss.1026-1034, 2022 (SCI-Expanded)
- XXXI. **Synthesis, characterization, crystal structure, Hirshfeld surface analysis, and theoretical study on a N-heterocyclic carbene salt and two NHC-palladium complexes**  
Özdemir N., KALOĞLU M., Kaloglu N., GÜRBÜZ N., ÖZDEMİR İ.  
INORGANIC AND NANO-METAL CHEMISTRY, cilt.52, sa.4, ss.493-504, 2022 (SCI-Expanded)
- XXXII. **Substituted <math>\langle i \rangle N \langle /i \rangle</math>-heterocyclic carbene PEPPSI-type palladium complexes with different <math>\langle i \rangle N \langle /i \rangle</math>-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., Özdemir N., Mansour L., ÖZDEMİR İ., GÜRBÜZ N., YAŞAR S., Sauthier M., Hamdi N.  
INORGANICA CHIMICA ACTA, cilt.532, 2022 (SCI-Expanded)
- XXXIII. **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., Özdemir N., GÜRBÜZ N., ÖZDEMİR İ.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1248, 2022 (SCI-Expanded)
- XXXIV. **4,5-Dihydro-imidazol-2-ylidene-linked palladium complexes as catalysts for the direct C-H bond arylation of azoles**  
KALOĞLU M., Özdemir N., ÖZDEMİR İ.  
APPLIED ORGANOMETALLIC CHEMISTRY, 2022 (SCI-Expanded)
- XXXV. **Biologically active acylthioureas and their Ni(II) and Cu(II) Complexes: Structural, spectroscopic, anti-proliferative, nucleolytic and antimicrobial studies**  
Oyeka E. E., BABAHAN İ., Eboma B., Ifeanyieze K. J., Okpareke O. C., Coban E. P., ÖZMEN A., ÇOBAN B., AKSEL M., Özdemir N., et al.  
INORGANICA CHIMICA ACTA, cilt.528, 2021 (SCI-Expanded)
- XXXVI. **Activity analysis of new N-heterocyclic carbenes and silver N-heterocyclic carbene molecules against novel coronavirus by UV-vis, fluorescence spectroscopy and molecular docking**  
ÜSTÜN E., Özdemir N., ŞAHİN N.  
JOURNAL OF COORDINATION CHEMISTRY, cilt.74, sa.21-24, ss.3109-3126, 2021 (SCI-Expanded)
- XXXVII. **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., ÖZDEMİR İ.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1243, 2021 (SCI-Expanded)
- XXXVIII. **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., Özdemir N., GÜRBÜZ N., ÖZDEMİR İ.  
DALTON TRANSACTIONS, cilt.50, sa.42, ss.15400-15412, 2021 (SCI-Expanded)
- XXXIX. **Supramolecular Ni(II) complex aggregates with a circular linkage of intermolecular multi-hydrogen bonding frameworks based on thiosemicarbazone, and a Cu(II) complex: Synthesis, structural, DFT, electrochemical and antioxidant studies**  
AVCU ALТИPARMAK E., YAZAR AYDOĞAN S., Özdemir N., BAL DEMİRCİ T., ÜLKÜSEVEN B.  
POLYHEDRON, cilt.209, 2021 (SCI-Expanded)
- XL. **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., ÖZDEMİR İ.  
NEW JOURNAL OF CHEMISTRY, cilt.45, sa.38, ss.17878-17892, 2021 (SCI-Expanded)
- XLI. **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., ÖZDEMİR İ.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.951, 2021 (SCI-Expanded)
- 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**  
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, cilt.525, 2021 (SCI-Expanded)
- XLIII. **Synthesis, crystal structures and catalytic activities of palladium complexes with coumarin-functionalised N-heterocyclic carbene ligands**  
Akpunar C., Özdemir N., KARATAŞ M. O., ALICI B., ÖZDEMİR İ.  
INORGANIC CHEMISTRY COMMUNICATIONS, cilt.131, 2021 (SCI-Expanded)
- XLIV. **Synthesis and characterization of the N-heterocyclic carbene ligand (NHC) precursors bearing long-alkyl chain substituent and the corresponding Ru(II)-carbene complexes for transfer hydrogenation catalysts**  
Ertugrul E., FIRINCI R., Özdemir N., GÜNAY M. E.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.948, 2021 (SCI-Expanded)
- XLV. **Synthesis, catalytic, cytotoxic, and antibacterial properties of new Ru(II) and Pd(II) complexes bearing bidentate Schiff base ligand**  
Selvi G., ÖZDEMİR F. A., AYKUTOĞLU G., Özdemir N., ŞERBETÇİ Z., Dincer M., DAYAN O.  
INORGANIC AND NANO-METAL CHEMISTRY, cilt.51, sa.12, ss.1697-1706, 2021 (SCI-Expanded)
- XLVI. **Water-soluble silver(I) complexes with N-donor benzimidazole ligands containing an imidazolium core: stability and preliminary biological studies**  
KARATAŞ M. O., Özdemir N., Sariman M., GÜNAL S., Ulukaya E., ÖZDEMİR İ.  
DALTON TRANSACTIONS, sa.33, ss.11596-11603, 2021 (SCI-Expanded)
- XLVII. **Spectroscopic and Theoretical Studies and Intramolecular Proton Transfer in (Z)-2-Hydroxy-6-(((2-methoxy-5-(trifluoromethyl)phenyl)amino)methylene)cyclohexa-2,4-dien-1-one**  
Özdemir Tarı G., Kirca B. K., Tasdogan M., Özdemir N., Ağar E.  
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A, cilt.95, sa.8, ss.1621-1631, 2021 (SCI-Expanded)
- XLVIII. **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., Özdemir N., ÖZDEMİR İ., İSPİR E.  
NEW JOURNAL OF CHEMISTRY, cilt.45, sa.25, ss.11075-11085, 2021 (SCI-Expanded)
- XLIX. **Synthesis, characterization and catalytic activity of N-heterocyclic carbene ligated Schiff base palladacycles**  
BABAHAN İ., FIRINCI R., Özdemir N., Gunay M. E.  
INORGANICA CHIMICA ACTA, cilt.522, 2021 (SCI-Expanded)

- L. **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**  
 KALOĞLU M., Kaloglu N., Özdemir N., ÖZDEMİR İ.  
 RESEARCH ON CHEMICAL INTERMEDIATES, cilt.47, sa.7, ss.2821-2843, 2021 (SCI-Expanded)
- LI. **Experimental and quantum mechanical investigation on two N-heterocyclic carbene palladium complexes**  
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- LIII. **Catalytic and biological activities of homoleptic palladium(II) complexes bearing the 2-aminobenzothiazole moiety**  
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- LIV. **Pd-PEPPSI: X-ray Structure, Spectroscopic Analyses, and Quantum Mechanical Studies**  
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- LV. **The synthesis of new PEPPSI-type N-heterocyclic carbene (NHC)-Pd(II) complexes bearing long alkyl chain as precursors for the synthesis of NHC-stabilized Pd(0) nanoparticles and their catalytic applications**  
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- LVI. **Comparative structural, spectroscopic and nonlinear optical analysis of a Schiff base compound with experimental and theoretical methods (HF, B3LYP and WB97X-D)**  
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- LXI. **Palladium(II) complexes assembled on solid materials: as catalysts for the -NO<sub>2</sub> (nitro) to -NH<sub>2</sub> (amine) reactions**  
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- LXVII. **Cu(ii) salen and 1,2,4-triazole complexes from thiosemicarbazone: synthesis, physicochemical and structural properties and cytotoxic activities**  
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- LXX. **Thiosemicarbazone ligand, nickel(II) and ruthenium(II) complexes based on vitamin B6 vitamer: The synthesis, different coordination behaviors and antioxidant activities**  
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- LXXIV. **A neutral arene ruthenium(II) complex with a sulfonated N,O-chelating ligand: Synthesis, characterization, in vitro cytotoxicity and antibacterial activity**  
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- LXXVI. **N-heterocyclic carbene palladium complexes with different N-coordinated ligands: Comparison of their catalytic activities in Suzuki-Miyaura and Mizoroki-Heck reactions**  
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- LXXVII. **Structural and Spectroscopic Characterization of N-(2-Amino-4,5-Dichlorophenyl)-N-(Phenylsulfonyl)Benzenesulfonamide: a Joint Experimental and Quantum Chemical Study**  
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- LXXX. **Inhibition of paraoxonase 1 by coumarin-substituted N-heterocyclic carbene silver(I), ruthenium(II) and palladium(II) complexes**  
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- LXXXII. **Microwave-assisted synthesis of 1-substituted-1H-benzimidazolium salts: Non-competitive inhibition of human carbonic anhydrase I and II**  
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- LXXXIII. **Palladium(II) and ruthenium(II) complexes of benzotriazole functionalized N-heterocyclic carbenes: Cytotoxicity, antimicrobial, and DNA interaction studies**  
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- LXXXIV. **Structural, spectroscopic, radical scavenging activity, molecular docking and DFT studies of a synthesized Schiff base compound**  
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- LXXXV. **Enhanced Performance of Organic/Inorganic Hybrid Nanomaterials bearing Impregnated [PdL2] Complexes as Counter-Electrode Catalyst for Dye-Sensitized Solar Cells**  
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- LXXXVI. **Novel <math>\text{N-alkylbenzimidazole-Ruthenium (II)}</math> complexes: Synthesis and catalytic activity of N-alkylating reaction under solvent-free medium**  
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- LXXXVII. **Hydrogen-bonded and -stacked nickel(II) thiosemicarbazone complexes: Synthesis, spectral and structural studies**  
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- XC. **One-pot stepwise reductive amination reaction by N-coordinate sulfonamido-functionalized Ru(II) complexes in water**  
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- XCI. **Benzotriazole functionalized N-heterocyclic carbene-silver(I) complexes: Synthesis, cytotoxicity, antimicrobial, DNA binding, and molecular docking studies**  
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- XCIII. **Synthesis and photovoltaic properties of new Ru(II) complexes for dye-sensitized solar cells**  
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- XCIV. **X-ray structure determination, Hirshfeld surface analysis, spectroscopic (FT-IR, NMR, UV-Vis, fluorescence), non-linear optical properties, Fukui function and chemical activity of 4 '(2,4-dimethoxyphenyl)-2,2 ':6 ',2 ''-terpyridine**  
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- XCV. **Synthesis, X-ray diffraction method, spectroscopic characterization (FT-IR, H-1 and C-13 NMR), antimicrobial activity, Hirshfeld surface analysis and DFT computations of novel sulfonamide derivatives**  
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- XCVI. **Sonogashira cross-coupling reaction catalysed by mixed NHC-Pd-PPh<sub>3</sub> complexes under copper free conditions**  
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- XCVIII. **Synthesis, spectral, X-ray diffraction and DFT studies on 1-(2-methyl-2-propenyl)-3-(2,3,4,5,6-pentamethylbenzyl)benzimidazolium chloride hydrate**  
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- XCIX. **Synthesis, structural, spectroscopic and DFT study on a palladium(II)-N-heterocyclic carbene complex**  
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- C. **Tautomerism in 4-chlorophenyl benzoylcarbamodithioate: Experimental and DFT study**  
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- CI. Tridentate SNS pincer type ligand: Synthesis, structural and spectroscopic analysis of a novel pyridine and m-xylene compound with thioether-bridge  
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- CII. Synthesis, crystal structure, spectroscopic characterization and DFT studies of bis[(1Z,2E)-N-(2,6-diethylphenyl)-N'-hydroxy-2(hydroxyimino)acetimidamido]nickel(II)  
Macit M., TANAK H., ORBAY M., Özdemir N.  
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- CIII. Synthesis of a new heterocyclic Schiff base ligand "(E)-5-benzoyl-4-phenyl-1-((pyridin-2-ylmethylene) amino) pyrimidin-2(1H)-one": An experimental and computational modeling study  
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- CIV. Syntheses and molecular structures of novel Ru(II) complexes with bidentate benzimidazole based ligands and their catalytic efficiency for oxidation of benzyl alcohol  
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- CV. Synthesis, crystal structure analysis, spectral characterization, quantum chemical calculations, antioxidant and antimicrobial activity of 3-(4-chlorophenyl)-3a,4,7,7a-tetrahydro-4,7-methanobenzo[d]isoxazole  
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- CVI. Palladium(II) and Ruthenium(II) complexes bearing arylsulfonate based ligands: Synthesis, structural characterization and catalytic properties  
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- CVII. Single crystal ruthenium(II) complex dye based photodiode  
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- CVIII. Divalent nickel complexes of thiosemicarbazone based on 5-bromosalicylaldehyde and triphenylphosphine: Experimental and theoretical characterization  
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- CIX. Crystal structure of (Z)-1-(1,5-dimethyl-1H-pyrazol-3-yl)-3-hydroxybut-2-en-1-one C9H12N2O2  
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- CX. Synthesis, molecular structure, spectroscopic characterization, NBO, NLO and NPA analysis and in vitro cytotoxicity study of 3-chloro-N-(4-sulfamoylphenethyl)propanamide with experimental and computational study  
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- CXI. Quantum chemical study of tautomerism in 2-[ (4-phenylthiazol-2-yl)hydrazonomethyl] phenol  
Özdemir N.  
COMPUTATIONAL AND THEORETICAL CHEMISTRY, cilt.1086, ss.12-17, 2016 (SCI-Expanded)
- CXII. Supramolecular nickel complex based on thiosemicarbazone. Synthesis, transfer hydrogenation and unexpected thermal behavior  
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- CXIII. Synthesis, Structural, and Spectroscopic (FT-IR, NMR, and UV) Characterization of 1-(Cyclohexylmethyl)-2-(pyridin-2-yl)-1H-benzo[d]imidazole by Experimental Techniques and

**Quantum Chemical Calculations**

Özdemir N., DAYAN O., Demirmen S.

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- CXIV. **Investigation of enol-imine/keto-amine tautomerism in (E)-4-[(2-hydroxybenzylidene)amino]phenyl benzenesulphonate by experimental and molecular modelling methods**  
Özdemir N., Kagit R., DAYAN O.  
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- CXV. **Functionalized imidazolium and benzimidazolium salts as paraoxonase 1 inhibitors: Synthesis, characterization and molecular docking studies**  
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- CXVI. **Spectroscopic, electrochemical and X-ray diffraction studies on nickel(II)-complexes of acetophenone thiosemicarbazones substituted six-carbon groups**  
GÜVELİ Ş., Özdemir N., KOCA A., Bal-Demirci T., ÜLKÜSEVEN B.  
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- CXVII. **In Vitro Antifungal, Anticancer Activities and POM Analyses of a Novel Bioactive Schiff Base 4-{{(E)-furan-2-ylmethylidene}amino}p-henol: Synthesis, Characterization and Crystal Structure**  
Tighadouni S., Radi S., Sirajuddin M., AKKURT M., Özdemir N., Ahmad M., Mabkhot Y. N., Ben Hadda T.  
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- CXVIII. **Enol-imine/keto-amine tautomerism of (E)-4-[(2-hydroxybenzylidene)amino]phenyl benzenesulfonate**  
Dincer M., Özdemir N., Kagit R., DAYAN O.  
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- CXIX. **Bicyclic N-heterocyclic carbene (NHC) ligand precursors and their palladium complexes**  
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- CXX. **Molecular structure, spectroscopic characterization and DFT calculations of a novel (Z)-1-[(2-Ethylphenylamino)methylene]naphthalene-2(1H)-one**  
ALPASLAN Y. B., GÖKCE H., Macit M., ALPASLAN G., Özdemir N.  
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- CXXI. **Theoretical and experimental investigation of 4-[(2-hydroxy-3-methylbenzylidene)amino]benzenesulfonamide: Structural and spectroscopic properties, NBO, NLO and NPA analysis**  
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- CXXII. **Experimental and theoretical studies of (E)-2-(2-hydroxystyryl)-6-(4-methoxybenzoyl)-5-(4-methoxyphenyl)-1,2,4-triazin-3(2H)-one**  
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- CXXIII. **A novel one-pot synthesis of heterocyclic compound (4-benzoyl-5-phenyl-24 pyridin-2-yl)-3,3a-dihdropyrazolo[1,5-c]pyrimidin-7(6H)-one: Structural (X-ray and DFT) and spectroscopic (FT-IR, NMR, UV-Vis and Mass) characterization Studies**  
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- CXXIV. **A new phosphazene derivative, spiro-N<sub>3</sub>P<sub>3</sub>[(O<sub>2</sub>C<sub>12</sub>H<sub>8</sub>)<sub>2</sub>(OC<sub>6</sub>H<sub>6</sub>N-3)<sub>2</sub>], and its Ru(II) complex: Syntheses, crystal structure, catalytic activity and antimicrobial activity studies**  
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- CXXV. **Heteroleptic ruthenium(II) complexes of 2-(2-pyridyl)benzimidazoles: A study of catalytic efficiency**

- towards transfer hydrogenation of acetophenone**  
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- CXXVI. **Direct and solvent-assisted keto-enol tautomerism and hydrogen-bonding interactions in 4-(m-chlorobenzylamino)-3-phenyl-4,5-dihydro-1H-1,2,4-triazol-5-one: a quantum-chemical study**  
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- CXXVII. **Iron(III) and nickel(II) complexes as potential anticancer agents: synthesis, physicochemical and structural properties, cytotoxic activity and DNA interactions**  
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- CXXVIII. **Palladium(II) complexes bearing bidentate pyridyl-sulfonamide ligands: Synthesis and catalytic applications**  
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- CXXIX. **Structural and spectroscopic characterization of a thiosemicarbazidatodioxouranium(VI) complex: A combined experimental and DFT study**  
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- CXXX. **Synthesis of some ruthenium(II)-Schiff base complexes bearing sulfonamide fragment: New catalysts for transfer hydrogenation of ketones**  
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- CXXXI. **Synthesis and characterization of 2,2'-(pyridine-2,6-diyl)bis (1H-benzo[d]imidazol-3-ium) 2,4,6-trimethylbenzenesulfonate chloride by experimental and theoretical methods**  
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- CXXXII. **Direct and solvent-assisted thione-thiol tautomerism in 5-(thiophen-2-yl)-1,3,4-oxadiazole-2(3H)-thione: Experimental and molecular modeling study**  
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- CXXXIII. **Synthesis, characterization and catalytic activity of Pd( II) complexes with N-allyl functionalized imidazol-2-ylidenes in Suzuki-Miyaura reaction**  
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- CXXXVI. **Dioxouranium(VI) complexes with N2O2 chelating thiosemicarbazones [UO2L(R-OH)]**  
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- CXXXVII. **Synthesis, spectroscopic (FT-IR/NMR) characterization, X-ray structure and DFT studies on (E)-2-**

- (1-phenylethylidene) hydrazinecarboximidamide nitrate hemimethanol**  
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- CXXXVIII. **Experimental and molecular modeling investigation of (E)-N-{2-[{(2-hydroxybenzylidene)amino]phenyl}benzenesulfonamide}**  
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- CXXXIX. **Synthesis, spectroscopic characterization, X-ray structure and DFT studies on 2,6-bis(1-benzyl-1H-benzo[d]imidazol-2-yl)pyridine**  
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- CXLII. **Synthesis and catalytic activity of ruthenium(II) complexes containing pyridine-based tridentate triamines ('NNN') and pyridine carboxylate ligands (NO)**  
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- CXLV. **Concomitant polymorphism of a pyridine-2,6-dicarboxamide derivative in a single space group: Experimental and molecular modeling study**  
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- CL. **2-[2-(1H-Imidazol-3-i um-5-yl)ethyl]-3-(pyridin-2-yl)-2H-imidazo[1,5-a]pyridin-4-i um bis(perchlorate)**  
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- CLI. **The asymmetric ONNO complexes of dioxouranium(VI) with N-1,N-4-diaryliden-S-propyl-thiosemicarbazones derived from 3,5-dichlorosalicylaldehyde: Synthesis, spectroscopic and structural studies**  
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- CLII. **A comparative DFT study of the physical properties of a 1,2,4-triazole compound**  
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- CLIII. **Quantum-chemical, spectroscopic and X-ray diffraction studies on nickel complex of 2-hydroxyacetophenone thiosemicarbazone with triphenylphospine**  
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- CLV. **An experimental and theoretical approach to the molecular structure of 2-[4-[3-(2,5-dimethylphenyl)-3-methylcyclobutyl]thiazol-2-yl]isoindoline-1,3-dione**  
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- CLVI. **Experimental and ab initio computational studies on 4-(1H-benzo[d]imidazol-2-yl)-N,N-dimethylaniline**  
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- CLIX. **Experimental and theoretical investigation of the molecular and electronic structure of 5-(4-aminophenyl)-4-(3-methyl-3-phenylcyclobutyl)thiazol-2-amine**  
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- CLXI. **Methyl 2-methoxy-7-(4-methylbenzoyl)-4-oxo-6-p-tolyl-4H-furo[3,2-c]pyran-3-carboxylate: A combined experimental and theoretical investigation**  
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- CLXVI. **Bis[2,6-bis[1-(4-fluorophenylimino)ethyl]pyridine]-1  $\kappa(3\text{N},\text{N}^{'},\text{N}^{''};3 \kappa(3\text{N},\text{N}^{'},\text{N}^{''}-di\text{-mu-chlorido-1 : 2 } \kappa(2\text{Cl} : \text{Cl};-2 : 3 \kappa(2\text{Cl} : \text{Cl}-trichlorido-1  $\kappa(2\text{Cl,2 } \kappa(2\text{Cl,3 } \kappa(2\text{Cl-2-copper(I)-1,3-dicopper(II)}$$**
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- CLXVII. **Di-mu-acetato- $\kappa(0-4 : 0^- bis[[2-(2-pyridyl)phenyl- $\kappa(2,\text{N}]palladium(II)}$$**
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- CLXX. **5-(4-Methylbenzoyl)-4-p-tolyl-1-(1-p-tolyethylideneamino)pyrimidin-2(1H)-one**
- Dincer M., Özdemir N., Onal Z., KORKUSUZ E.
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- CLXXII. **(Acetonitrile){2,6-bis[1-(2,4,6-trimethylphenylimino)ethyl]pyridine} dichloridoruthenium(II) dichloromethane solvate**
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- CLXXIV. **(2,6-bis{1-[4-(dimethylamino)phenylimino]ethyl}pyridine)dichlorido(tri-phenylphosphine- $\kappa(\text{P})$ ruthenium(II)): a zigzag chain of fused centrosymmetric R-2(2)(12) rings**
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- CLXXV. **[1,3-Bis(2,3,4,5,6-pentafluorobenzyl)benzimidazol-2-ylidene]bromido-(eta(4)-cycloocta-1,5-**

- diene)rhodium(I)**  
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Özdemir N., Dincer M., Doganer G., Astley D., Astley S. T.  
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- CLXXVII. (Acetonitrile){2,6-bis[1-(2-ethyl-6-methylphenylimino)ethyl]pyridine} dichlororuthenium(II) dichloromethane hemisolvate: a chain of edge-fused R-6(6)(24) rings**  
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- CLXXVIII. Copper(II) and cobalt(II) complexes of 2,6-diacetylpyridine bis(O-methyloxime)**  
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- CLXXX. N-cyclohexyl-2-[5-(4-pyridyl)-4-(p-tolyl)-4H-1,2,4-triazol-3-ylsulfanyl]-acetamide dihydrate**  
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- CLXXXI. 3,3'-(Pyridine-2,6-diyl)bis(4-allyl-4,5-dihydro-1H-1,2,4-triazole-5-thione)**  
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- CLXXXII. Dichloro[(1E,1'E)-1,1'-(pyridine-2,6-diyl)diethanone bis(O-methyloxime)-k(3)N(1),N-2,N-6]cobalt(II)**  
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- CLXXXIII. A mu-chloro-bridged dinuclear ruthenium complex with 9H-carbazole: the formation of one-dimensional linear chains of star-shaped edge-fused rings**  
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ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY, cilt.62, 2006 (SCI-Expanded)
- CLXXXIV. Dichloro[(1E,1'E)-1,1'-(pyridine-2,6-diyl)diethanone bis(O-methyloxime)-kappa(3) N-1, N-2, N-6]copper(II)**  
Özdemir N., Dincer M., Dayan O., Cetinkaya B.  
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- CLXXXV. Brorno(eta(4)-cycloocta-1,5-diene)[1-(2,3,4,5,6-pentafluorobenzyl)-3-(2,4,6-trimethylbenzylbenzimidazol-2-ylidenel rhodium(I)**  
Dincer M., Özdemir N., Guelcemal S., Cetinkaya B., Bueyuekguengoer O.  
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- CLXXXVI. Hydrogen bonding in meso-4,5-diphenyl-3,6-diazaoctane-1,8-diol: the formation of one-dimensional linear chains of edge-fused rings**  
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