

Prof. Dr. Namık Özdemir



Kişisel Bilgiler

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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 deneysel ve teorik yöntemlerle incelenmesi, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (Dr), 2010

Yüksek Lisans, Tek kristal x-ışınları kırınımı yöntemiyle C₁₅H₁₃ClN₄O, C₂₁H₁₉N₃O₃ ve C₂₁H₂₀N₂O₃ moleküllerinin kristal yapı analizleri, Ondokuz Mayıs Üniversitesi, Fen Bilimleri Enstitüsü, Fizik (YI) (Tezli), 2003

Araştırma Alanları

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

Akademik Unvanlar / Gorevler

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

Yüksek Lisans

FFİ860 Uzmanlık Alan Dersi II, Yüksek Lisans, 2018 - 2019, 2017 - 2018

FFİ859 Uzmanlık Alan Dersi I, Yüksek Lisans, 2018 - 2019

Lisans

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 Moleküler Fiziği I, Lisans, 2018 - 2019, 2017 - 2018

İMÖ406 Öğretmenlik Uygulaması, Lisans, 2018 - 2019

TBFİZ105 Fizik I, Lisans, 2018 - 2019, 2017 - 2018

TBFİZ106 Fizik II, Lisans, 2018 - 2019, 2017 - 2018

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. **Investigation of the in vitro effects of benzimidazol-2-ylidene-based silver-N-heterocyclic carbene complexes on *Microsporidia* and *Leishmania* major promastigotes**
ATAŞ A. D., Guelpinar D. G., AKIN POLAT Z., Özdemir N., ŞAHİN N.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1327, 2025 (SCI-Expanded)
- II. **Structural investigation and application of ruthenium(II)-benzimidazole complexes for N-alkylation**
Karabekmez F. D., KARACA E. Ö., GÜRBÜZ N., Ozdemird N., Özdemir N.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.1028, 2025 (SCI-Expanded)
- III. **Synthesis, crystal structure, and DFT studies of NHC mediated Pd-PEPSI complex: Application for Suzuki reaction**
Ulu O. D., SERİN S., Özdemir N., ÖZDEMİR İ.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1320, 2025 (SCI-Expanded)
- IV. **Synthesis and Characterization of Ru(II)-NSHC Catalysts Bearing Thiamine Analogs in Water-Solvent Transfer Hydrogenation Catalysis**
Kilincarslan R., Menderes M., Tuncer H., Ozdemir S., Özdemir N., Cetinkaya B.
EUROPEAN JOURNAL OF INORGANIC CHEMISTRY, cilt.28, sa.2, 2025 (SCI-Expanded)
- V. **Novel Nonsymmetrically benzimidazolium salts and their silver (I)-N-heterocyclic carbene complexes: Synthesis, crystal structure, DFT studies and anticancer activities**
Ben Salah D., Zouaghi M. O., Hassen S., Arfaoui Y., Mansour L., Al-Quraishy S., Özdemir N., Gurbuz N., Ozdemir I., Sauthier M., et al.
INORGANICA CHIMICA ACTA, cilt.574, 2025 (SCI-Expanded)
- VI. **Synthesis, electrochemical, biological and catalytical studies of half-sandwich Ru(II)-NSHC complexes bearing benzothiazol-2-ylidene**
Tuncer H., Kilincarslan R., Karci H., Dundar M., Ozdemir I., KOÇ A., Özdemir N., Guzel M., Ak M., ÖZDEMİR İ., et al.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1318, 2024 (SCI-Expanded)
- VII. **Design, synthesis, characterization, and biological activities of novel Ag (I)-NHC complexes based on 1,3-dioxane ligand**
Ulu O. D., Kuruçay A., Gumushan I. Y., Özdemir N., ATEŞ B., ÖZDEMİR İ.
JOURNAL OF INORGANIC BIOCHEMISTRY, cilt.261, 2024 (SCI-Expanded)
- VIII. **Synthesis, cytotoxicities, structural properties and comparison of dihalogeno-substituted-thiosemicarbazone ligands and mixed-ligand Ni(II) complexes**
AVCU ALTIPARMAK E., Eroglu G. O., Özdemir N., Kuruca S. E., BAL DEMİRCİ T.
DALTON TRANSACTIONS, cilt.54, sa.4, ss.1454-1467, 2024 (SCI-Expanded)
- IX. **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, cilt.38, sa.10, 2024 (SCI-Expanded)
- X. **Silver and ruthenium complexes with anthracene functionalized N-heterocyclic carbene ligands: catalytic and cytotoxicity properties**
KARATAŞ M. O., Kelestemur U., MUMCU A., Özdemir N., ERDOĞAN A., KÜÇÜKBAY H.
TRANSITION METAL CHEMISTRY, cilt.49, sa.5, ss.365-372, 2024 (SCI-Expanded)
- XI. **Synthesis of imidazole-fused pentacyclic pyrrolo[3,4-c]coumarins via base-promoted rearrangement of coumarin-substituted N-heterocyclic carbene precursors**
KARATAŞ M. O., Özdemir N., KÜÇÜKBAY H.
NEW JOURNAL OF CHEMISTRY, cilt.48, sa.38, ss.16676-16682, 2024 (SCI-Expanded)
- XII. **N-alkylbenzimidazolepalladium(II) complexes: Synthesis and their catalytic activities in direct C-H functionalization of pyrrole, furan and 2-acetylthiophene**
Cicek M., Ispir E., Özdemir N., GÜRBÜZ N., ÖZDEMİR İ.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.1016, 2024 (SCI-Expanded)

- XIII. **New silver, rhodium and iridium complexes with anthracene-functionalized N-heterocyclic carbene ligands: Crystal structures, cytotoxicity and fluorescence studies**
BEKÇİ H., Özdemir N., ŞAHİN Z., Mumcu A., DAYAN S., KARATAŞ M. O.
POLYHEDRON, cilt.257, 2024 (SCI-Expanded)
- XIV. **Benzimidazole derivatives as a new scaffold of anticancer agents: Synthesis, optical properties, crystal structure and DFT calculations**
Zouaghi M. O., Bensalah D., Hassen S., Arfaoui Y., Mansour L., Özdemir N., Bülbül H., GÜRBÜZ N., ÖZDEMİR İ., Hamdi N.
HELIYON, cilt.10, sa.12, 2024 (SCI-Expanded)
- XV. **Characterization of the synthesized diaqua-bis(indazole-κN2)bis (nitrate-κO)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)
- XVI. **Vitamin B1-based thiazol-2-ylidene-Ru(II) complexes: recyclable transfer hydrogenation catalysts in water**
Kilincarslan R., Tuncer H., Özdemir N., Cetinkaya B.
DALTON TRANSACTIONS, cilt.53, sa.21, ss.9192-9197, 2024 (SCI-Expanded)
- XVII. **Palladium(II) complexes bearing thioether-NHC ligand: Synthesis, characterization, and their application in Suzuki-Miyaura coupling**
Efecik A., Fırmıncı R., Özdemir N., Bülbül H., Günay M. E.
INORGANICA CHIMICA ACTA, cilt.563, 2024 (SCI-Expanded)
- XVIII. **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)
- XIX. **Novel Benzotriazole-β-lactam Derivatives as Antimalarial Agents: Design, Synthesis, Biological Evaluation and Molecular Docking Studies**
Aye M., Jarrahpour A., Haghighijoo Z., Heiran R., Pournajati R., Karbalaee-Heidari H. R., Sinou V., Brunel J. M., AKKURT M., Oezdemir N., et al.
CHEMISTRY & BIODIVERSITY, cilt.21, sa.2, 2024 (SCI-Expanded)
- XX. **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, cilt.77, sa.5-6, ss.434-447, 2024 (SCI-Expanded)
- XXI. **Synthesis, crystal structure and spectroscopic studies of a new silver complex derived from [1-(3-pyridinyl) ethanone]**
Celik S., Atılgan A., Alp M., Yurdakul S., Demircioğlu Z., Özdemir N., Büyükgüngör O.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1294, 2023 (SCI-Expanded)
- XXII. **New indolo-β-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)
- XXIII. **AN IMIDAZOLIDIN-2-YLIDENE-BASED Pd-PEPPSI COMPLEX: AN EXPERIMENTAL AND THEORETICAL APPROACH**
Özdemir N., Kaloğlu M., Özdemir İ.
JOURNAL OF STRUCTURAL CHEMISTRY, cilt.64, sa.11, ss.2120-2129, 2023 (SCI-Expanded)
- XXIV. **Antimicrobial activities of bis-(N-alkylbenzimidazole)-cobalt(II) and zinc (II) complexes**
Şahin N., Üstün E., Özdemir İ., Günel S., Özdemir N., Bülbül H., Gürbüz N., Özdemir İ., Sémeril D.
INORGANIC CHEMISTRY COMMUNICATIONS, cilt.157, 2023 (SCI-Expanded)
- XXV. **EXPERIMENTAL AND THEORETICAL CHARACTERIZATION OF 3-(3,5-DIMETHYLBENZYL)-1-METHYL-3,4,5,6-TETRAHYDROPYRIMIDINIUM TRICHLORIDO(η⁶-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)

- XXVI. **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)
- XXVII. **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)
- XXVIII. **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., ÖZDEMİR İ.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1281, 2023 (SCI-Expanded)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **Structural and spectroscopic characterization, electronic properties, and biological activity of the 4-(3-methoxyphenyl)piperazin-1-ium 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)
- XXXIII. **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)
- XXXIV. **Crystal structure, vibrational spectroscopy, 1H 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)
- XXXV. **Simultaneous reduction of 4-nitrophenol, 4-nitroaniline and methylene blue organic pollutants via TiO₂ 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)
- XXXVI. **Cu(I)-<i>N</i>-heterocyclic carbene complexes bearing a naphthyl substituent: synthesis, characterization, and antimicrobial activities**
Tokatli A., Demir B., Kiliç N., Kurt Kızıldoğan A., Otur Ç., Kiliñarslan R., Karakaş H., Özdemir N., Bülbül H.
JOURNAL OF COORDINATION CHEMISTRY, cilt.76, sa.13-15, ss.1745-1762, 2023 (SCI-Expanded)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **Synthesis, Experimental and Theoretical Characterization of (μ -oxo)hexakis(μ -chloro)-tetrakis[1-(allyl)-1H-imidazole]tetracopper(II)**
Özdemir N., Fırıncı R., Günay M. E.
CROATICA CHEMICA ACTA, cilt.96, sa.1, ss.1-8, 2023 (SCI-Expanded)
- XL. **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)
- XLII. **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)
- XLIII. **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)
- XLIII. **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)
- XLIV. **Synthesis, spectroscopic characterization and antimicrobial properties of silyl-tethered benzimidazolium salts**
YİĞİT M., ŞİREÇİ N., GÜNAL S., Onderci M., Özdemir N., Arinc A., YİĞİT B., ÖZDEMİR İ.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1264, 2022 (SCI-Expanded)
- XLV. **Synthesis, in-vitro biological evaluation, and molecular docking study of novel spiro-beta-lactam-isatin hybrids**
Jarrahpour A., Jowkar Z., Haghhighijoo 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)
- XLVI. **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., Özdemir N., Mansour L., ÖZDEMİR İ., GÜRBÜZ N., YAŞAR S., Sauthier M., Hamdi N.
INORGANICA CHIMICA ACTA, cilt.532, 2022 (SCI-Expanded)
- XLVII. **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)
- XLVIII. **New benzimidazolium N-heterocyclic carbene precursors and their related Pd-NHC complex PEPSI-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)
- XLIX. **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)
- L. **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)

- LI. **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 ALTIPARMAK E., YAZAR AYDOĞAN S., Özdemir N., BAL DEMİRCİ T., ÜLKÜSEVEN B.
POLYHEDRON, cilt.209, 2021 (SCI-Expanded)
- LII. **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)
- LIII. **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.
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- LIV. **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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- LV. **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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- LVI. **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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- LVII. **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**
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- LVIII. **Water-soluble silver(I) complexes with N-donor benzimidazole ligands containing an imidazolium core: stability and preliminary biological studies**
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- LIX. **Synthesis, crystal structures and catalytic activities of palladium complexes with coumarin-functionalised N-heterocyclic carbene ligands**
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- LX. **Synthesis, catalytic, cytotoxic, and antibacterial properties of new Ru(II) and Pd(II) complexes bearing bidentate Schiff base ligand**
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- LXI. **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**
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- LXII. **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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- LXIII. **Synthesis, characterization and catalytic activity of N-heterocyclic carbene ligated Schiff base palladacycles**
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- LXIV. **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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- LXV. **Experimental and quantum mechanical investigation on two N-heterocyclic carbene palladium complexes**
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- LXVI. **Catalytic and biological activities of homoleptic palladium(II) complexes bearing the 2-aminobenzothiazole moiety**
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- LXVIII. **Pd-PEPSI: X-ray Structure, Spectroscopic Analyses, and Quantum Mechanical Studies**
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- LXIX. **The synthesis of new PEPSI-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**
Arici H., Sundu B., FIRINCI R., Ertugrul E., Özdemir N., Cetinkaya B., Metin O., GÜNAY M. E.
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- LXX. **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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- LXXI. **The preparation of new palladium (II) complexes with Schiff base type ligands and its impregnated Al(2)O(3) materials: As the catalysts for degradation/reduction of organic dyes**
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- LXXII. **Synthesis, thermal, electrochemical and catalytic behavior toward transfer hydrogenation investigations of the half-sandwich Ru-II complexes with 2-(2'-quinoly)benzimidazoles**
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- LXXIII. **Synthesis of ferrocenyl imidazolium salts and their novel PEPSI-type N-heterocyclic carbene (NHC) palladium complexes**
Yenisar B., Firinei R., Özdemir N., Gunay M. E.
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- LXXIV. **Palladium(II) complexes assembled on solid materials: as catalysts for the -NO₂ (nitro) to -NH₂ (amine) reactions**

- DAYAN S., Kayaci N., Özdemir N., DAYAN O., ÖZPOZAN N.
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- LXXV. **SYNTHESIS, SPECTROSCOPY, X-RAY CRYSTALLOGRAPHY, AND DFT CALCULATIONS OF (E)-4-[(2-HYDROXYPHENYL) IMINO]METHYL}PHENYL BENZENESULFONATE**
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- LXXVI. **Synthesis, characterization and application of Ru(II) complexes containing pyridil ligands for dye-sensitized solar cells**
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- LXXVII. **Synthesis, structural, cytotoxic and pharmacokinetic evaluation of some thiosemicarbazone derivatives**
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- LXXVIII. **Synthesis, antimicrobial properties, and theoretical analysis of benzimidazole-2-ylidene silver(I) complexes**
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- LXXIX. **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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- LXXX. **Synthesis, DFT computations and antimicrobial activity of a Schiff base derived from 2-hydroxynaphthaldehyde: Remarkable solvent effect**
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- LXXXI. **Cu(ii) salen and 1,2,4-triazole complexes from thiosemicarbazone: synthesis, physicochemical and structural properties and cytotoxic activities**
AVCU ALTIPARMAK E., Erdemir G., Özdemir N., Kuruca S. E., BAL DEMİRCİ T.
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- LXXXII. **Palladium-carbene catalyzed direct arylation of five-membered heteroaromatics**
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- LXXXIII. **Investigations of antiproliferative and antioxidant activity of beta-lactam morpholino-1,3,5-triazine hybrids**
Ranjbari S., Behzadi M., Sepehri S., Aseman M. D., Jarrahpour A., Mohkam M., Ghasemi Y., Akbarizadeh A. R., Kianpour S., Atioglu Z., et al.
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- LXXXIV. **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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- LXXXV. **Well-defined PEPPSI-themed palladium-NHC complexes: synthesis, and catalytic application in the direct arylation of heteroarenes**
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- LXXXVI. **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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- LXXXVII. **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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- LXXXVIII. **New Chalcone Derivative: Synthesis, Characterization, Computational Studies and Antioxidant Activity**
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- LXXXIX. **Photoresponsivity and photodetectivity properties of copper complex-based photodiode**
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- XC. **Nickel (II) complex [NiCl₂(DMF)₂](L-2) bearing diaminobenzene and sulfonamide: Crystal structure and catalytic application in the reduction of nitrobenzenes**
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- XCI. **Synthesis, Spectroscopy, X-ray Crystallography, and DFT Studies of Dichlorobis[1-(allyl)-1H-imidazole-kappa N-3]copper(II)**
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- XCII. **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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- XCIII. **Molecular structure, spectroscopic and density functional studies on 2-[(5-nitrothiophen-2-yl)methylidene]amino}phenol**
Tanak H., Semiz L., Kocak F., Alaman Açar A., Özdemir N.
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- XCIV. **Inhibition of paraoxonase 1 by coumarin-substituted N-heterocyclic carbene silver(I), ruthenium(II) and palladium(II) complexes**
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- XCV. **The formation of a metallocsupramolecular porous helicate through salicylaldehydethiosemicarbazone: Synthesis, Characterization, Cytotoxic activity, DNA binding and DFT calculations**
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- XCVI. **Palladium(II) and ruthenium(II) complexes of benzotriazole functionalized N-heterocyclic carbenes: Cytotoxicity, antimicrobial, and DNA interaction studies**
Onar G., GÜRSES C., KARATAŞ M. O., Balcioglu S., AKBAY N., Özdemir N., ATEŞ B., ALICI B.
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- XCVII. **Microwave-assisted synthesis of 1-substituted-1H-benzimidazolium salts: Non-competitive inhibition of human carbonic anhydrase I and II**
Karlık O., GENÇER N., KARATAŞ M. O., ERGÜN A., Cıkrıkçı K., ARSLAN O., ALICI B., Kilic-Cikla I., Özdemir N.
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- XCVIII. **Structural, spectroscopic, radical scavenging activity, molecular docking and DFT studies of a synthesized Schiff base compound**
GÖKÇE H., ALPASLAN Y. B., Zeyrek C. T., Açar E., Guder A., Özdemir N., ALPASLAN G.
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- XCIX. **Novel N-Alkylbenzimidazole-Ruthenium (II) complexes: Synthesis and catalytic activity of N-alkylating reaction under solvent-free medium**
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- C. **Enhanced Performance of Organic/Inorganic Hybrid Nanomaterials bearing Impregnated [PdL2] Complexes as Counter-Electrode Catalyst for Dye-Sensitized Solar Cells**
DAYAN S., Özdemir N., ÖZPOZAN N.
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.33, sa.2, 2019 (SCI-Expanded)
- CI. **Hydrogen-bonded and -stacked nickel(II) thiosemicarbazone complexes: Synthesis, spectral and structural studies**
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TRANSITION METAL CHEMISTRY, cilt.44, sa.2, ss.115-123, 2019 (SCI-Expanded)
- CII. **Synthesis, spectroscopic properties and DFT studies of copper(II) complex of (E)-1-((2,4-dichlorophenylimino)methyl)naphthalen-2-ol**
ALPASLAN G., Macit M., Özdemir N., GÖKCE H.
INORGANICA CHIMICA ACTA, cilt.484, ss.297-304, 2019 (SCI-Expanded)
- CIII. **Synthesis and catalytic activity of ionic palladium N-heterocyclic carbene complexes**
YAŞAR S., Akkoc M., Özdemir N., ÖZDEMİR İ.
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- CIV. **One-pot stepwise reductive amination reaction by N-coordinate sulfonamido-functionalized Ru(II) complexes in water**
Kayaci N., DAYAN S., Özdemir N., DAYAN O., ÖZPOZAN N.
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.32, sa.12, 2018 (SCI-Expanded)
- CV. **Benzotriazole functionalized N-heterocyclic carbene-silver(I) complexes: Synthesis, cytotoxicity, antimicrobial, DNA binding, and molecular docking studies**
Onar G., KARATAŞ M. O., Balcioglu S., TAŞKIN TOK T., GÜRSES C., Kilic-Cikla I., Özdemir N., ATEŞ B., ALICI B.
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- CVI. **Synthesis and photovoltaic properties of new Ru(II) complexes for dye-sensitized solar cells**
DAYAN O., Özdemir N., YAKUPHANOĞLU F., ŞERBETÇİ Z., BİLİCİ A., Cetinkaya B., TERCAN YAVAŞOĞLU M.
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- CVII. **Structural, Spectroscopic, Antimicrobial Activity and DFT Studies on 4-Methyl-N-(4-methylphenylsulfonyl)-N-phenylbenzenesulfonamide**
EREN B., ÖZDEMİR KOÇAK F., Özdemir N.
OPTICS AND SPECTROSCOPY, cilt.125, sa.1, ss.14-21, 2018 (SCI-Expanded)
- CVIII. **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**
DEMİRÇİOĞLU Z., ÖZDEMİR F. A., DAYAN O., ŞERBETÇİ Z., Özdemir N.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1161, ss.122-137, 2018 (SCI-Expanded)
- CIX. **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**
DEMİRÇİOĞLU Z., Yesil A. E., ALTUN M., Bal-Demirci T., Özdemir N.
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- CX. **Sonogashira cross-coupling reaction catalysed by mixed NHC-Pd-PPh3 complexes under copper free conditions**
Touj N., YAŞAR S., Özdemir N., Hamdi N., ÖZDEMİR İ.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, cilt.860, ss.59-71, 2018 (SCI-Expanded)
- CXI. **Synthesis, structural characterization and cytotoxicity studies of T-shaped silver(I) complexes derived from 1-benzyl-3H-benzimidazolium p-toluenesulfonates**
Karlık O., Balcioglu S., KARATAŞ M. O., ATEŞ B., ALICI B., Özdemir N.
POLYHEDRON, cilt.142, ss.63-70, 2018 (SCI-Expanded)
- CXII. **Synthesis, spectral, X-ray diffraction and DFT studies on 1-(2-methyl-2-propenyl)-3-(2,3,4,5,6-**

pentamethylbenzyl)benzimidazolium chloride hydrate

ŞAHİN N., Kilic-Cikla I., Özdemir N., GÜRBÜZ N., ÖZDEMİR İ.

MOLECULAR CRYSTALS AND LIQUID CRYSTALS, cilt.664, sa.1, ss.109-123, 2018 (SCI-Expanded)

CXIII. Synthesis, structural, spectroscopic and DFT study on a palladium(II)-N-heterocyclic carbene complex

FIRINCI R., Gunay M. E., Özdemir N., Dincer M.

JOURNAL OF MOLECULAR STRUCTURE, cilt.1146, ss.267-272, 2017 (SCI-Expanded)

CXIV. Tautomerism in 4-chlorophenyl benzoylcarbomodithioate: Experimental and DFT study

AYDIN F., Arslan N. B., Özdemir N.

JOURNAL OF MOLECULAR STRUCTURE, cilt.1137, ss.233-239, 2017 (SCI-Expanded)

CXV. Tridentate SNS pincer type ligand: Synthesis, structural and spectroscopic analysis of a novel pyridine and m-xylene compound with thioether-bridge

SOĞUKÖMEROĞULLARI H. G., ŞEN F., Dincer M., Özdemir N., SÖNMEZ M.

JOURNAL OF MOLECULAR STRUCTURE, cilt.1136, ss.271-280, 2017 (SCI-Expanded)

CXVI. 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.

INORGANICA CHIMICA ACTA, cilt.459, ss.36-44, 2017 (SCI-Expanded)

CXVII. 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

ÖZDEMİR M., SÖNMEZ M., ŞEN F., Dincer M., Özdemir N.

JOURNAL OF MOLECULAR STRUCTURE, cilt.1127, ss.626-635, 2017 (SCI-Expanded)

CXVIII. Syntheses and molecular structures of novel Ru(II) complexes with bidentate benzimidazole based ligands and their catalytic efficiency for oxidation of benzyl alcohol

DAYAN O., TERCAN YAVAŞOĞLU M., Özdemir N.

JOURNAL OF MOLECULAR STRUCTURE, cilt.1123, ss.35-43, 2016 (SCI-Expanded)

CXIX. Palladium(II) and Ruthenium(II) complexes bearing arylsulfonate based ligands: Synthesis, structural characterization and catalytic properties

Kagit R., DAYAN O., Özdemir N.

POLYHEDRON, cilt.117, ss.504-512, 2016 (SCI-Expanded)

CXX. 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

ERYILMAZ S., GÜL M., İNKAYA E., İDİL Ö., Özdemir N.

JOURNAL OF MOLECULAR STRUCTURE, cilt.1122, ss.219-233, 2016 (SCI-Expanded)

CXXI. Single crystal ruthenium(II) complex dye based photodiode

TATAROĞLU A., Dayan O., Ozdemir N., Serbetci Z., A-Ghamdi A. A., Dere A., El-Tantawy F., Yakuphanoglu F.

DYES AND PIGMENTS, cilt.132, ss.64-71, 2016 (SCI-Expanded)

CXXII. Divalent nickel complexes of thiosemicarbazone based on 5-bromosalicylaldehyde and triphenylphosphine: Experimental and theoretical characterization

GÜVELİ Ş., Özdemir N., ÜLKÜSEVEN B., Bal-Demirci T.

POLYHEDRON, cilt.113, ss.16-24, 2016 (SCI-Expanded)

CXXIII. Crystal structure of (Z)-1-(1,5-dimethyl-1H-pyrazol-3-yl)-3-hydroxybut-2-en-1-one C₉H₁₂N₂O₂

Radi S., Tighadouini S., Ben Hadda T., AKKURT M., Özdemir N., Sirajuddin M., Mabkhot Y. N.

ZEITSCHRIFT FÜR KRISTALLOGRAPHIE-NEW CRYSTAL STRUCTURES, cilt.231, sa.2, ss.617-618, 2016 (SCI-Expanded)

CXXIV. 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)

CXXV. 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

DURGUN M., CEYLAN Ü., YALÇIN Ş., TÜRKMEN H., ÖZDEMİR N., KOYUNCU İ.

JOURNAL OF MOLECULAR STRUCTURE, cilt.1114, ss.95-107, 2016 (SCI-Expanded)

- CXXVI. **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.
OPTICS AND SPECTROSCOPY, cilt.120, sa.5, ss.706-720, 2016 (SCI-Expanded)
- CXXVII. **Supramolecular nickel complex based on thiosemicarbazone. Synthesis, transfer hydrogenation and unexpected thermal behavior**
GÜVELİ Ş., Bal-Demirci T., ÜLKÜSEVEN B., Özdemir N.
POLYHEDRON, cilt.110, ss.188-196, 2016 (SCI-Expanded)
- CXXVIII. **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.
INORGANICA CHIMICA ACTA, cilt.443, ss.7-14, 2016 (SCI-Expanded)
- CXXIX. **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.
MOLECULAR PHYSICS, cilt.114, sa.6, ss.757-768, 2016 (SCI-Expanded)
- CXXX. **Functionalized imidazolium and benzimidazolium salts as paraoxonase 1 inhibitors: Synthesis, characterization and molecular docking studies**
KARATAŞ M. O., Uslu H., ALICI B., GÖKÇE B., GENÇER N., ARSLAN O., Arslan N. B., Özdemir N.
BIOORGANIC & MEDICINAL CHEMISTRY, cilt.24, sa.6, ss.1392-1401, 2016 (SCI-Expanded)
- CXXXI. **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.
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, cilt.38, sa.1, ss.157-165, 2016 (SCI-Expanded)
- CXXXII. **Bicyclic N-heterocyclic carbene (NHC) ligand precursors and their palladium complexes**
Guemesada R., Guenay M. E., Özdemir N., Cetinkaya B.
JOURNAL OF COORDINATION CHEMISTRY, cilt.69, sa.9, ss.1463-1472, 2016 (SCI-Expanded)
- CXXXIII. **Enol-imine/keto-amine tautomerism of (E)-4-[(2-hydroxybenzylidene)amino]phenyl benzenesulfonate**
Dincer M., Özdemir N., Kagit R., DAYAN O.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, cilt.72, 2016 (SCI-Expanded)
- CXXXIV. **Molecular structure, spectroscopic characterization and DFT calculations of a novel (Z)-1-[(2-Ethylphenylamino)methylene]naphthalene-2(1H)-one**
ALPASLAN Y. B., GÖKÇE H., Macit M., ALPASLAN G., Özdemir N.
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- CXXXV. **Theoretical and experimental investigation of 4-[(2-hydroxy-3-methylbenzylidene)amino]benzenesulfonamide: Structural and spectroscopic properties, NBO, NLO and NPA analysis**
Ceylan U., DURGUN M., TÜRKMEN H., YALÇIN Ş., KILIÇ A., Özdemir N.
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- CXXXVI. **Experimental and theoretical studies of (E)-2-(2-hydroxystyryl)-6-(4-methoxybenzoyl)-5-(4-methoxyphenyl)-1,2,4-triazin-3(2H)-one**
Ceylan U., Hacıyusufoglu M. E., SÖNMEZ M., YALÇIN Ş., Özdemir N.
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- CXXXVII. **A new phosphazene derivative, spiro-N3P3[(O2C12H8)(2)(OC6H6N-3)(2)], and its Ru(II) complex: Syntheses, crystal structure, catalytic activity and antimicrobial activity studies**

- ERDENER ÇIRALI D., DAYAN O., Özdemir N., Hacloglu N.
POLYHEDRON, cilt.88, ss.170-175, 2015 (SCI-Expanded)
- CXXXVIII. **A novel one-pot synthesis of heterocyclic compound (4-benzoyl-5-phenyl-2,4-pyridin-2-yl)-3,3a-dihydropyrazolo[1,5-c]pyrimidin-7(6H)-one): Structural (X-ray and DFT) and spectroscopic (FT-IR, NMR, UV-Vis and Mass) characterization Studies**
ÖZDEMİR M., SÖNMEZ M., ŞEN F., Dincer M., Ozdemir N.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.137, ss.1304-1314, 2015 (SCI-Expanded)
- CXXXIX. **Palladium(II) complexes bearing bidentate pyridyl-sulfonamide ligands: Synthesis and catalytic applications**
DAYAN S., ÇETİN A., Arslan N. B., ÖZPOZAN N., Özdemir N., DAYAN O.
POLYHEDRON, cilt.85, ss.748-753, 2015 (SCI-Expanded)
- CXL. **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**
Arslan N. B., Özdemir N.
JOURNAL OF MOLECULAR MODELING, cilt.21, sa.1, 2015 (SCI-Expanded)
- CXLI. **Heteroleptic ruthenium(II) complexes of 2-(2-pyridyl)benzimidazoles: A study of catalytic efficiency towards transfer hydrogenation of acetophenone**
DAYAN O., Demirmen S., Özdemir N.
POLYHEDRON, cilt.85, ss.926-932, 2015 (SCI-Expanded)
- CXLII. **Iron(III) and nickel(II) complexes as potential anticancer agents: synthesis, physicochemical and structural properties, cytotoxic activity and DNA interactions**
Bal-Demirci T., ÇONGUR G., ERDEM GÜRSAN K. A., Erdem-Kuruca S., Özdemir N., AKGÜN DAR K., VAROL B., ÜLKÜSEVEN B.
NEW JOURNAL OF CHEMISTRY, cilt.39, sa.7, ss.5643-5653, 2015 (SCI-Expanded)
- CXLIII. **Structural and spectroscopic characterization of a thiosemicarbazidatodioxouranium(VI) complex: A combined experimental and DFT study**
ŞAHİN M., Özdemir N., Bal-Demirci T., ÜLKÜSEVEN B., Dincer M., SOYLU M. S.
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- CXLIV. **Synthesis of some ruthenium(II)-Schiff base complexes bearing sulfonamide fragment: New catalysts for transfer hydrogenation of ketones**
DAYAN S., ÖZPOZAN N., Özdemir N., DAYAN O.
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- CXLV. **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**
Özdemir N., DAYAN O., TERCAN YAVAŞOĞLU M., Cetinkaya B.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.131, ss.145-152, 2014 (SCI-Expanded)
- CXLVI. **Direct and solvent-assisted thione-thiol tautomerism in 5-(thiophen-2-yl)-1,3,4-oxadiazole-2(3H)-thione: Experimental and molecular modeling study**
Arslan N. B., Özdemir N., DAYAN O., DEGE N., KOPARIR M., Koparir P., MUĞLU H.
CHEMICAL PHYSICS, cilt.439, ss.1-11, 2014 (SCI-Expanded)
- CXLVII. **Synthesis, characterization and catalytic activity of Pd(II) complexes with N-allyl functionalized imidazol-2-ylidenes in Suzuki-Miyaura reaction**
Gumusada R., Özdemir N., Gunay M. E., Dincer M., SOYLU M. S., Cetinkaya B.
APPLIED ORGANOMETALLIC CHEMISTRY, cilt.28, sa.5, ss.324-331, 2014 (SCI-Expanded)
- CXLVIII. **Electrochemistry and structural properties of new mixed ligand nickel(II) complexes based on thiosemicarbazone**
GÜVELİ Ş., KOCA A., Özdemir N., Bal-Demirci T., ÜLKÜSEVEN B.
NEW JOURNAL OF CHEMISTRY, cilt.38, sa.11, ss.5582-5589, 2014 (SCI-Expanded)

- CXLIX. **Theoretical investigation of thione-thiol tautomerism, intermolecular double proton transfer reaction and hydrogen bonding interactions in 4-ethyl-5-(2-hydroxyphenyl)-2H-1,2,4-triazole-3(4H)-thione**
Özdemir N., Türkpençe D.
COMPUTATIONAL AND THEORETICAL CHEMISTRY, cilt.1025, ss.35-45, 2013 (SCI-Expanded)
- CL. **Dioxouranium(VI) complexes with N2O2 chelating thiosemicarbazones [UO2L(R-OH)]**
ŞAHİN M., Bal-Demirci T., Özdemir N., ÜLKÜSEVEN B.
JOURNAL OF COORDINATION CHEMISTRY, cilt.66, sa.20, ss.3519-3530, 2013 (SCI-Expanded)
- CLI. **Synthesis, spectroscopic (FT-IR/NMR) characterization, X-ray structure and DFT studies on (E)-2-(1-phenylethylidene) hydrazinecarboximidamide nitrate hemimethanol**
Özdemir N., İNKAYA E., SARIPINAR E., Akyuz L., İLHAN İ. Ö., Aydın S., Dincer M., Buyukgungor O.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.114, ss.175-182, 2013 (SCI-Expanded)
- CLII. **Experimental and molecular modeling investigation of (E)-N-{2-[(2-hydroxybenzylidene)amino]phenyl}benzenesulfonamide**
Özdemir N., DAYAN S., DAYAN O., Dincer M., ÖZPOZAN N.
MOLECULAR PHYSICS, cilt.111, sa.6, ss.707-723, 2013 (SCI-Expanded)
- CLIII. **Synthesis, spectroscopic characterization, X-ray structure and DFT studies on 2,6-bis(1-benzyl-1H-benzo[d]imidazol-2-yl)pyridine**
İnkaya E., GÜNNAZ S., Özdemir N., DAYAN O., Dincer M., Cetinkaya B.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.103, ss.255-263, 2013 (SCI-Expanded)
- CLIV. **Synthesis and characterization of SiO₂-supported ruthenium complexes containing aromatic sulfonamides: as catalysts for transfer hydrogenation of acetophenone**
DAYAN S., ÖZPOZAN N., DAYAN O., Özdemir N., Dincer M., Buyukgungor O.
DALTON TRANSACTIONS, cilt.42, sa.14, ss.4957-4969, 2013 (SCI-Expanded)
- CLV. **Quantum chemical investigation of the intra- and intermolecular proton transfer reactions and hydrogen bonding interactions in 4-amino-5-(2-hydroxyphenyl)-2H-1,2,4-triazole-3(4H)-thione**
Özdemir N.
JOURNAL OF MOLECULAR MODELING, cilt.19, sa.1, ss.397-406, 2013 (SCI-Expanded)
- CLVI. **Synthesis and catalytic activity of ruthenium(II) complexes containing pyridine-based tridentate triamines ('NNN') and pyridine carboxylate ligands (NO)**
DAYAN O., Özdemir N., ŞERBETÇİ Z., Dincer M., Cetinkaya B., Buyukgungor O.
INORGANICA CHIMICA ACTA, cilt.392, ss.246-253, 2012 (SCI-Expanded)
- CLVII. **Structural and spectroscopic characterization of 2-mesityl-1H-benzo[d]imidazol-3-ium chloride: A combined experimental and theoretical analysis**
Özdemir N.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.91, ss.51-60, 2012 (SCI-Expanded)
- CLVIII. **Copper(II) and cobalt(II) complexes of 2,6-diacetylpyridine bis(O-methyloxime): A theoretical investigation**
Özdemir N., Dayan O., Dincer M., Cetinkaya B.
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- CLIX. **Concomitant polymorphism of a pyridine-2,6-dicarboxamide derivative in a single space group: Experimental and molecular modeling study**
Özdemir N., DAYAN O., Cetinkaya B., AKGÜL C.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.86, ss.614-624, 2012 (SCI-Expanded)
- CLX. **Synthesis, spectroscopic characterization, X-ray structure and DFT studies on 4-(2-hydroxyphenyl)-4,5,6,7-tetrahydro-1H-imidazo[4,5-c]pyridin-5-ium chloride hydrate**
TÜRKYILMAZ M., Özdemir N., Baran Y.

SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.82, sa.1, ss.360-367, 2011 (SCI-Expanded)

- CLXI. **Quantum-Chemical, IR, NMR, and X-ray Diffraction Studies on 2-(4-Chlorophenyl)-1-methyl-1H-benzo[d]imidazole**
Özdemir N., EREN B., Dincer M., Bekdemir Y.
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, cilt.111, sa.12, ss.3112-3124, 2011 (SCI-Expanded)
- CLXII. **Synthesis of Ruthenium(II) Complexes Containing Tridentate Triamine ('(NNN)over-cap ') and Bidentate Diamine Ligands ((NN)over-cap '): as Catalysts for Transfer Hydrogenation of Ketones**
GÜNNAZ S., Özdemir N., DAYAN S., DAYAN O., Cetinkaya B.
ORGANOMETALLICS, cilt.30, sa.15, ss.4165-4173, 2011 (SCI-Expanded)
- CLXIII. **1,1'-(Piperazine-1,4-diyl)dipropan-2-ol**
TÜRKYILMAZ M., Baran Y., Özdemir N.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, cilt.67, 2011 (SCI-Expanded)
- CLXIV. **2-[2-(1H-Imidazol-3-ium-5-yl)ethyl]-3-(pyridin-2-yl)-2H-imidazo[1,5-a]pyridin-4-ium bis(perchlorate)**
TÜRKYILMAZ M., Baran Y., Özdemir N.
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- CLXV. **The asymmetric ONNO complexes of dioxouranium(VI) with N-1,N-4-diarylidene-S-propylthiosemicarbazones derived from 3,5-dichlorosalicylaldehyde: Synthesis, spectroscopic and structural studies**
Özdemir N., ŞAHİN M., Bal-Demirci T., ÜLKÜSEVEN B.
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- CLXVI. **A comparative DFT study of the physical properties of a 1,2,4-triazole compound**
Dincer M., Özdemir N.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, cilt.67, 2011 (SCI-Expanded)
- CLXVII. **Quantum-chemical, spectroscopic and X-ray diffraction studies on nickel complex of 2-hydroxyacetophenone thiosemicarbazone with triphenylphosphine**
GÜVELİ Ş., Özdemir N., Bal-Demirci T., ÜLKÜSEVEN B., Dincer M., Andaç Ö.
POLYHEDRON, cilt.29, sa.12, ss.2393-2403, 2010 (SCI-Expanded)
- CLXVIII. **Synthesis, spectroscopic and structural characterization of cobalt(II) complex with uracil-containing 2,6-diformylpyridine ligand: Theoretical studies on the ligand and pentagonal-bipyramidal [Co(L)(H₂O)(2)](2+) and [Zn(L)(H₂O)(2)](2+) cations**
Koz G., Özdemir N., ASTLEY D., Dincer M., ASTLEY S. T.
JOURNAL OF MOLECULAR STRUCTURE, cilt.966, sa.1-3, ss.39-47, 2010 (SCI-Expanded)
- CLXIX. **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**
Özdemir N., Dincer M., ÇUKUROVALI A.
JOURNAL OF MOLECULAR MODELING, cilt.16, sa.2, ss.291-302, 2010 (SCI-Expanded)
- CLXX. **Experimental and ab initio computational studies on 4-(1H-benzo[d]imidazol-2-yl)-N,N-dimethylaniline**
Özdemir N., EREN B., Dincer M., Bekdemir Y.
MOLECULAR PHYSICS, cilt.108, sa.1, ss.13-24, 2010 (SCI-Expanded)
- CLXXI. **Experimental and DFT studies on a pyrimidine-thione derivative**
Dincer M., Özdemir N., KOCA İ., Yildirim I.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, cilt.66, 2010 (SCI-Expanded)
- CLXXII. **Synthesis, X-ray crystal structures, thermal and electrochemical properties of thiosemicarbazidatodioxouranium(VI) complexes**
ŞAHİN M., KOCA A., Özdemir N., Dincer M., Buyukgungor O., Bal-Demirci T., ÜLKÜSEVEN B.
DALTON TRANSACTIONS, cilt.39, sa.42, ss.10228-10237, 2010 (SCI-Expanded)
- CLXXIII. **Experimental and theoretical investigation of the molecular and electronic structure of 5-(4-aminophenyl)-4-(3-methyl-3-phenylcyclobutyl)thiazol-2-amine**

- Oezdemir N., Dincer M., ÇUKUROVALI A., Bueyuekguengoer O.
JOURNAL OF MOLECULAR MODELING, cilt.15, sa.12, ss.1435-1445, 2009 (SCI-Expanded)
- CLXXIV. **New ($\kappa(2)$ -C,N)-palladacyclic complexes with benzimidazol-2-ylidene ligand: Synthesis, crystal structures and characterization**
Gunay M. E., Gumuesada R., Özdemir N., Dincer M., Cetinkaya B.
INORGANIC CHEMISTRY COMMUNICATIONS, cilt.12, sa.10, ss.990-993, 2009 (SCI-Expanded)
- CLXXV. **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**
Özdemir N., Dincer M., KOCA İ., Yildirim I., Buyukgungor O.
JOURNAL OF MOLECULAR MODELING, cilt.15, sa.10, ss.1193-1201, 2009 (SCI-Expanded)
- CLXXVI. **Synthesis, X-ray structures, and catalytic activities of ($\kappa(2)$ -C,N)-palladacycles bearing imidazol-2-ylidenes**
Gunay M. E., Gumusada R., Özdemir N., Dincer M., Cetinkaya B.
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- CLXXVII. **The influence of moisture on deprotonation mode of imidazolinium chlorides with palladacycle acetate dimer**
Gunay M. E., Özdemir N., Ulusoy M., Ucak M., Dincer M., Cetinkaya B.
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- CLXXVIII. **Nickel(II) complexes of ONS and ONN chelating thiosemicarbazones with triphenylphosphine co-ligands**
GÜVELİ Ş., Bal-Demirci T., Özdemir N., ÜLKÜSEVEN B.
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- CLXXIX. **Experimental and Theoretical Investigation of the Molecular and Electronic Structure of N-Cyclohexyl-2-[5-(4-pyridyl)-4-(p-tolyl)-4H-1,2,4-triazol-3-ylsulfanyl]acetamide Dihydrate**
Dincer M., Özdemir N., ÇETİN A., Keser T.
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- CLXXX. **Bis{2,6-bis[1-(4-fluorophenylimino)ethyl]pyridine}-1 $\kappa(3)$ N,N',N'';3 $\kappa(3)$ N,N',N''-di-mu-chlorido-1 : 2 $\kappa(2)$ Cl : Cl;-2 : 3 $\kappa(2)$ Cl : Cl-trichlorido-1 κ Cl,2 κ Cl,3 κ Cl-2-copper(I)-1,3-dicopper(II)**
Oezdemir N., Dincer M., DAYAN O., Cetinkaya B.
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- CLXXXI. **Di-mu-acetato- κ O-4 : O'-bis[[2-(2-pyridyl)phenyl- κ C-2,N]palladium(II)]**
Dincer M., Oezdemir N., GÜNAY M. E., Cetinkaya B.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, cilt.64, 2008 (SCI-Expanded)
- CLXXXII. **An experimental and theoretical approach to the 2-chloro-1-(3-methyl-3-phenylcyclobutyl) ethanone**
Dincer M., Özdemir N., Yilmaz I.
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, cilt.64, 2008 (SCI-Expanded)
- CLXXXIII. **(2Z,6Z)-N-2,N-2'-bis(2,6-diisopropylphenyl)-N-1,N-1'-bis(2-methoxyethyl)pyridine-2,6-dicarboxamide**
Dincer M., Özdemir N., DAYAN O., Cetinkaya B.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, cilt.64, 2008 (SCI-Expanded)
- CLXXXIV. **5-(4-Methylbenzoyl)-4-p-tolyl-1-(1-p-tolyloethylideneamino)pyrimidin-2(1H)-one**
Dincer M., Özdemir N., Onal Z., KORKUSUZ E.
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- CLXXXV. **1-Methyl-5-(4-methylbenzoyl)-4-(4-methylphenyl)pyrimidine-2(1H)-thione**
Dincer M., KOCA İ., Yildirim I., Özdemir N.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, cilt.63, 2007 (SCI-Expanded)
- CLXXXVI. **(Acetonitrile){2,6-bis[1-(2,4,6-trimethylphenylimino)ethyl]pyridine} dichloridoruthenium(II) dichloromethane solvate**
Oezdemir N., Dincer M., Dayan O., Cetinkaya B.

- ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS, cilt.63, 2007 (SCI-Expanded)
- CLXXXVII. **2-chloro-1-(3-methyl-3-phenylcyclobutyl)ethanone**
Dincer M., Oezdemir N., Yilmaz I., Bueyuekguengoer O.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, cilt.63, 2007 (SCI-Expanded)
- :LXXXVIII. **(2,6-bis{1-[4-(dimethylamino)phenylimino]ethyl}pyridine)dichlorido(tri-phenylphosphine-kappa P)ruthenium(II): a zigzag chain of fused centrosymmetric R-2(2)(12) rings**
Özdemir N., Dincer M., Dayan O., Cetinkaya B.
ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY, cilt.63, 2007 (SCI-Expanded)
- CLXXXIX. **[1,3-Bis(2,3,4,5,6-pentafluorobenzyl)benzimidazol-2-ylidene]bromido-(eta(4)-cycloocta-1,5-diene)rhodium(I)**
Dincer M., Oezdemir N., Guelcema S., Cetinkaya B.
ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY, cilt.63, 2007 (SCI-Expanded)
- CXC. **trans-diaqua{5,5'-(E,E)-pyridine-2,6-diylbis(methylidynenitrilo)}bis[pyrimidine-2,4(1H,3H)-dione]}zinc(II) nitrate hexafluorophosphate trihydrate**
Özdemir N., Dincer M., Doganer G., Astley D., Astley S. T.
ACTA CRYSTALLOGRAPHICA SECTION C-STRUCTURAL CHEMISTRY, cilt.63, 2007 (SCI-Expanded)
- CXCI. **(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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