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Research Areas

Bioinorganic Chemistry, Organometallic Chemistry

Courses

Üniversite Kültürü, Associate Degree, 2019 - 2020
Genel Kimya - I, Associate Degree, 2019 - 2020
Çevre Kimyası, Associate Degree, 2018 - 2019
Organik Kimya, Associate Degree, 2018 - 2019
Bilim Adamları ve Buluşları, Associate Degree, 2019 - 2020
Anorganik Kimya, Associate Degree, 2019 - 2020
Analitik Kimya, Associate Degree, 2019 - 2020
Genel Kimya Laboratuvarı, Associate Degree, 2018 - 2019
Organik Kimya, Associate Degree, 2017 - 2018
Genel Kimya Laboratuvarı, Associate Degree, 2017 - 2018
Sosyal Bilimlerde Araştırma Yöntemleri, Associate Degree, 2018 - 2019
Staj, Associate Degree, 2017 - 2018
Yönlendirilmiş Çalışma, Associate Degree, 2016 - 2017
Grafik ve Tasarım, Associate Degree, 2017 - 2018
Kimyasal Hesaplamalar, Associate Degree, 2016 - 2017
Özel Gıdalar Teknolojisi, Associate Degree, 2016 - 2017

Jury Memberships

Doctoral Examination, Doctoral Examination, Fırat Üniversitesi, May, 2021
Doctoral Examination, Doctoral Examination, Fırat Üniversitesi, May, 2021
Doctoral Examination, Doctoral Examination, Fırat Üniversitesi, May, 2021
Doctoral Examination, Doctoral Examination, Kahramanmaraş Sütçü İmam Üniversitesi, October, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- Synthesis, characterization, non-linear optical and DNA binding properties of a Schiff base ligand and its Cu(II) and Zn(II) complexes**
Kose A., Gungor O., Balli J. N. , ERKAN S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1268, 2022 (Journal Indexed in SCI)
- Computational design and characterization of platinum-II complexes of some Schiff bases and investigation of their anticancer-antibacterial properties**
Kaya S., ERKAN S., KARAKAŞ D.

APPLIED ORGANOMETALLIC CHEMISTRY, 2022 (Journal Indexed in SCI)

- III. **Synthesis, spectral characterization, chemical reactivity and anticancer behaviors of some novel hydrazone derivatives: Experimental and theoretical insights**
ÇAKMAK R., Basaran E., KAYA S., ERKAN S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1253, 2022 (Journal Indexed in SCI)
- IV. **Determination of structural, spectral, computational and OLED properties of Ex2.2Box2+ Cyclophane and its derivatives: Experimental and computational study**
Sayın K., Rezaeivala M., Erkan S., Güney E.
JOURNAL OF MOLECULAR STRUCTURE, vol.1253, pp.132286-132296, 2022 (Journal Indexed in SCI)
- V. **A new 3-substituted BODIPY dye: Synthesis, crystal structure, photophysical, non-linear optic and OLED properties**
Kirpik H., ERKAN S., KÖSE M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1252, 2022 (Journal Indexed in SCI)
- VI. **Synthesis, photophysical, electrochemical, and DFT examinations of two new organic dye molecules based on phenothiazine and dibenzofuran**
Periyasamy K., Sakthivel P., Venkatesh G., Anbarasan P. M., Vennila P., Mary Y. S., Kaya S., ERKAN S.
JOURNAL OF MOLECULAR MODELING, vol.28, no.2, 2022 (Journal Indexed in SCI)
- VII. **Potential thiosemicarbazone-based enzyme inhibitors: Assessment of antiproliferative activity, metabolic enzyme inhibition properties, and molecular docking calculations**
Yakan H., KOÇYİĞİT Ü. M., Muglu H., ERGÜL M., ERKAN S., Guzel E., Taslimi P., GÜLÇİN İ.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, 2022 (Journal Indexed in SCI)
- VIII. **Effect of hydrocarbon chain length for acid corrosion inhibition of mild steel by three 8-(n-bromo-R-alkoxy)quinoline derivatives: Experimental and theoretical investigations**
Erkan S., Tazouti A., Errahmany N., Rbaa M., Galai M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1244, pp.130976-130997, 2021 (Journal Indexed in SCI)
- IX. **Halogens effect on spectroscopy, anticancer and molecular docking studies for platinum complexes**
Khalid H. H., ERKAN S., BULUT N.
OPTİK, vol.244, 2021 (Journal Indexed in SCI)
- X. **Equilibrium and Computational Chemical Modelling Studies for the Removal of Methyl Orange and Methyl Red Dyes from Water Using Modified Silica Resin**
Junejo R., Jalbania N. S., Kaya S., Erkan S.
International Journal Of Environmental Analytical Chemistry, vol.1, pp.1-17, 2021 (Journal Indexed in SCI)
- XI. **In-Vitro Anticancer and Antibacterial Activities of Brominated Indeno[1,2-b]quinoline Amines Supported with Molecular Docking and MCDM****
Aydin A., Okten S., ERKAN S., Bulut M., ÖZCAN E., TUTAR A., EREN T.
CHEMISTRYSELECT, vol.6, no.13, pp.3286-3295, 2021 (Journal Indexed in SCI)
- XII. **N-substituted benzenesulfonamide compounds: DNA binding properties and molecular docking studies**
Gungor S. A., TÜMER M., KÖSE M., ERKAN S.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, 2021 (Journal Indexed in SCI)
- XIII. **Biologically active phthalocyanine metal complexes: Preparation, evaluation of alpha-glycosidase and anticholinesterase enzyme inhibition activities, and molecular docking studies**
Guzel E., KOÇYİĞİT Ü. M., Taslimi P., ERKAN S., Taskin O. S.
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, 2021 (Journal Indexed in SCI)
- XIV. **Experimental and theoretical study of new Schiff bases based on imidazo(1,2-a)pyridine as corrosion inhibitor of mild steel in 1M HCl**
El Aatiaoui A., Koudad M., Chelfi T., ERKAN S., Azzouzi M., Aouniti A., Savas K., Kaddouri M., Benchat N., Oussaid A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1226, 2021 (Journal Indexed in SCI)
- XV. **Quantum chemical and molecular dynamic simulation studies for the identification of the extracted cinnamon essential oil constituent responsible for copper corrosion inhibition in acidified 3.0 wt% NaCl medium**

- Dahmani K., Galai M., Ouakki M., Cherkaoui M., Tourir R., Erkan S., Kaya S., El Ibrahim B.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.124, 2021 (Journal Indexed in SCI)
- XVI. **Chemically modified guar gum and ethyl acrylate composite as a new corrosion inhibitor for reduction in hydrogen evolution and tubular steel corrosion protection in acidic environment**
Singh A., Ansari K. R. , Quraishi M. A. , KAYA S., ERKAN S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.14, pp.9452-9465, 2021 (Journal Indexed in SCI)
- XVII. **Equilibrium, thermodynamic, and density functional theory modeling studies for the removal of dichromate ions from wastewater using calix[4]arene modified silica resin**
Junejo R., Jalbani N. S. , Memon S., KAYA S., ERKAN S., SERDAROĞLU G., Palabiyik I. M.
Journal of Chemical and Engineering Data, vol.66, pp.379-388, 2021 (Journal Indexed in SCI)
- XVIII. **Computational investigation of molecular structures, spectroscopic properties and antitumor-antibacterial activities of some Schiff bases**
Kaya S., ERKAN S., KARAKAŞ D.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.244, 2021 (Journal Indexed in SCI)
- XIX. **Spectral analysis and DFT investigation of some benzopyran analogues and their self-assemblies with graphene**
Al-Otaibi J. S. , Mary Y. S. , Mary Y. S. , KAYA S., ERKAN S.
JOURNAL OF MOLECULAR LIQUIDS, vol.317, 2020 (Journal Indexed in SCI)
- XX. **Quinoline-based promising anticancer and antibacterial agents, and some metabolic enzyme inhibitors**
Okten S., Aydin A., KOÇYİĞİT Ü. M. , Cakmak O., ERKAN S., Andac C. A. , Taslimi P., GÜLÇİN İ.
ARCHIV DER PHARMAZIE, vol.353, no.9, 2020 (Journal Indexed in SCI)
- XXI. **Phthalocyanine complexes with (4-isopropylbenzyl)oxy substituents: preparation and evaluation of anti-carbonic anhydrase, anticholinesterase enzymes and molecular docking studies**
Guzel E., KOÇYİĞİT Ü. M. , Taslimi P., GÜLÇİN İ., ERKAN S., NEBİOĞLU M., Arslan B. S. , ŞİŞMAN İ.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, 2020 (Journal Indexed in SCI)
- XXII. **Research on structural, spectral (IR, UV-Vis, H-1- and C-13-NMR) and light emitting properties of triisocyano-based trinuclear Au(I) complexes**
Ozkan N., ERKAN S., SAYIN K., KARAKAŞ D.
CHEMICAL PAPERS, vol.74, no.8, pp.2415-2425, 2020 (Journal Indexed in SCI)
- XXIII. **Synthesis, Antiproliferative and Cytotoxic Activities, DNA Binding Features and Molecular Docking Study of Novel Enamine Derivatives**
Gurdere M. B. , Aydin A., Yencilek B., Erturk F., Ozbek O., ERKAN S., Budak Y., CEYLAN M.
CHEMISTRY & BIODIVERSITY, vol.17, no.7, 2020 (Journal Indexed in SCI)
- XXIV. **Benzaldehyde derivatives with functional propargyl groups as alpha-glucosidase inhibitors**
Gungor S. A. , TÜMER M., KÖSE M., ERKAN S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1206, 2020 (Journal Indexed in SCI)
- XXV. **Antiproliferative Evaluation of Some 2-[2-(2-Phenylethenyl)-cyclopent-3-en-1-yl]-1,3-benzothiazoles: DFT and Molecular Docking Study**
Ceylan M., ERKAN S., YAĞLIOĞLU A. Ş. , Uremis N. A. , Koc E.
CHEMISTRY & BIODIVERSITY, vol.17, no.4, 2020 (Journal Indexed in SCI)
- XXVI. **A theoretical study on cyclometalated iridium (III) complexes by using a density functional theory**
ERKAN S., KARAKAŞ D.
JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY, vol.19, no.2, 2020 (Journal Indexed in SCI)
- XXVII. **Theoretical and Experimental Spectroscopic Properties and Molecular Docking of F8BT p-Type Semiconducting Polymer**
ERKAN S.
RUSSIAN JOURNAL OF PHYSICAL CHEMISTRY A, vol.94, no.2, pp.445-452, 2020 (Journal Indexed in SCI)
- XXVIII. **Computational investigation of structural, nonlinear optical and anti-tumor properties of dinuclear metal carbonyls bridged by pyridyl ligands with alkyne unit**

- Erkan S., Karakaş D.
JOURNAL OF MOLECULAR STRUCTURE, vol.1199, 2020 (Journal Indexed in SCI)
- XXIX. **Evaluation of carbonic anhydrase and paraoxonase inhibition activities and molecular docking studies of highly water-soluble sulfonated phthalocyanines**
Guzel E., Sonmez F., ERKAN S., Cikrikci K., Ergun A., Gencer N., Arslan O., Koçak M.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.6, pp.1565-1577, 2020 (Journal Indexed in SCI)
- XXX. **Structural, spectral characterization and molecular docking analyses of mer-ruthenium (II) complexes containing the bidentate chelating ligands**
Erkan S., Kaya S., Sayin K., Karakaş D.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.224, 2020 (Journal Indexed in SCI)
- XXXI. **DFT investigation and molecular docking studies on dinuclear metal carbonyls containing pyridyl ligands with alkyne unit**
Erkan S., Karakaş D.
CHEMICAL PAPERS, vol.73, pp.2387-2398, 2019 (Journal Indexed in SCI)
- XXXII. **Activity of the rocuronium molecule and its derivatives: A theoretical calculation**
ERKAN KARİPER S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1189, pp.257-264, 2019 (Journal Indexed in SCI)
- XXXIII. **Computational study of some fluoroquinolones: Structural, spectral and docking investigations**
SAYIN K., KARAKAŞ D., ERKAN KARİPER S., Sayin T. A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1156, pp.172-181, 2018 (Journal Indexed in SCI)
- XXXIV. **Pamoic acid esters and their xanthene derivatives: Fluorimetric detection of nitroaromatic compounds and non-linear optical properties**
Gungor S. A., Sahin I., Gungor O., ERKAN KARİPER S., TÜMER F., KÖSE M.
SENSORS AND ACTUATORS B-CHEMICAL, vol.255, pp.3344-3354, 2018 (Journal Indexed in SCI)
- XXXV. **Theoretical study on the antitumor properties of Ru(II) complexes containing 2-pyridyl, 2-pyridine-4-carboxylic acid ligands**
ERKAN KARİPER S., SAYIN K., KARAKAŞ D.
JOURNAL OF MOLECULAR STRUCTURE, vol.1149, pp.473-486, 2017 (Journal Indexed in SCI)
- XXXVI. **Multi-properties of a new azo-Schiff base and its binuclear copper(II) chelate: Preparation, spectral characterization, electrochemical, potentiometric and modeling studies**
Sarigul M., ERKAN KARİPER S., DEVECİ P., Atabey H., KARAKAŞ D., KURTOĞLU M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1149, pp.520-529, 2017 (Journal Indexed in SCI)
- XXXVII. **The new O, O and N, O type ligands and their Cu(II) and Ni(II) complexes: Crystal structure, absorption-emission properties and superoxide dismutase mimetic studies**
Kose R., Gungor S. A., ERKAN KARİPER S., KÖSE M., KURTOĞLU M.
INORGANICA CHIMICA ACTA, vol.462, pp.130-141, 2017 (Journal Indexed in SCI)
- XXXVIII. **Spectroscopic investigation, FMOs and NLO analyses of Zn(II) and Ni(II) phenanthroline complexes: A DFT approach**
SAYIN K., Karaka D., KARAKUŞ N., Sayin T. A., Zaim Z., ERKAN KARİPER S.
POLYHEDRON, vol.90, pp.139-146, 2015 (Journal Indexed in SCI)
- XXXIX. **Theoretical spectroscopic study of seven zinc(II) complex with macrocyclic Schiff-base ligand**
SAYIN K., ERKAN KARİPER S., Sayin T. A., KARAKAŞ D.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.133, pp.348-356, 2014 (Journal Indexed in SCI)
- XL. **Theoretical investigation on the vibrational and electronic spectra of three isomeric forms of dicobalt octacarbonyl**
KARAKAŞ D., ERKAN KARİPER S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1062, pp.77-81, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Investigations of structural, spectral (IR and NMR) and in silico analyses of boron compounds as SERM inhibitor**
Kaya S., Sayın K., Erkan S., Karakaş D.
Chemical Data Collections, vol.37, pp.100816-100826, 2022 (Journal Indexed in ESCI)
- II. **The Effect of Electron Donor and Withdrawing Groups Attached to 1,2,3- Selendiazole Based Compounds on Anti-Cancer Properties**
Erkan S., Usman Sani U. S.
Journal of Physical Chemistry and Functional Materials, vol.4, no.1, pp.17-23, 2021 (Other Refereed National Journals)
- III. **Structural, Spectroscopic and Anti-cancer Properties of Hydroxy- and Sulfonamide-Azobenzene Platinum (II) Complexes: DFT and Molecular Docking Studies**
ERKAN KARİPER S.
Cumhuriyet Science Journal, vol.39, no.4, pp.1036-1051, 2018 (Other Refereed National Journals)
- IV. **Structural, spectroscopic and activity calculations on methanesulfonylhydrazone derivative chromium pentacarbonyl complexes**
ERKAN S., SAYIN K., KARAKAŞ D.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, no.3, pp.1193-1204, 2018 (Refereed Journals of Other Institutions)
- V. **Spectroscopic and Quantum Chemical Studies on Some β -Lactam Inhibitors**
ERKAN KARİPER S.
Turkish Computational and Theoretical Chemistry, vol.1, no.2, pp.13-26, 2017 (Refereed Journals of Other Institutions)
- VI. **Theoretical Studies on EightOxovanadium IV Complexes withSalicylaldehyde and Aniline Ligands**
ERKAN KARİPER S., SAYIN K., KARAKAŞ D.
Hacettepe Journal of Biology and Chemistry, vol.42, no.3, pp.337-342, 2014 (Other Refereed National Journals)
- VII. **EFFECT OF SOME ELECTRON DONOR AND ELECTRON ACCEPTOR GROUPS ON STABILITY OF COMPLEXES ACCORDING TO THE PRINCIPLE OF HSAB**
KAYA S., ERKAN KARİPER S., ÜNGÖRDÜ A.
journal of new results in science, vol.4, pp.82-89, 2014 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Synthesis Methods in Solid-State Chemistry**
Erkan S., Kaya S.
in: Synthesis Methods and Crystallization, Riadh Marzouki, Editor, IASP Press see International Association for the Study of Pain (IASP), Budapest, pp.1-26, 2020
- II. **Proton Pompaların Fizikokimyasal Özellikleri**
SAYIN K., ERKAN S.
in: Her Yönüyle Proton Pompaları ve Proton Pompa İnhibitörleri, Prof. Dr. Hilmi ATASEVEN, Dr. Öğr. Üyesi Merve ERGÜL, Editor, Sivas Cumhuriyet Üniversitesi Matbaası, Sivas, pp.11-16, 2020
- III. **Proton Pompa İnhibitörlerinin Kimyası**
ERKAN S., SAYIN K.
in: Her Yönüyle Proton Pompaları ve Proton Pompa İnhibitörleri, Prof. Dr. Hilmi ATASEVEN, Dr. Öğr. Üyesi Merve ERGÜL, Editor, Sivas Cumhuriyet Üniversitesi Matbaası, Sivas, pp.61-78, 2020
- IV. **Proton Pompaların Fizikokimyasal Özellikleri**
SAYIN K., ERKAN S.
in: Her Yönüyle Proton Pompaları ve Proton Pompa İnhibitörleri, Hilmi Ataseven, Merve Ergül, Editor, Cumhuriyet Üniversitesi Yayınları, Sivas, pp.11-16, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **An approach to DFT on the 1,2,3-Selendiazole Based Compounds on Molecular Properties and Anti-Cancer Properties**
MUHAMMAD U. S. , ERKAN S.
PCFM2021, Turkey, 08 April 2021
- II. **LIGHT-EMITTING PROPERTIES OF PYRIMIDINE-5-CARBONITRILE DERIVATIVES AND DIFFERENTLY SUBSTITUTED CARBAZOLES: A THEORETICAL CALCULATION**
KARAKOYUN N., ERKAN S.
PCFM2021, 08 April 2021
- III. **Quantum Chemical Calculations on Manganese Complexes with Penta-Amine Macrocyclic Schiff Base Ligand: Computational and Molecular Docking**
ERKAN S., SAYIN K., KARAKAŞ D.
2nd International Conference on Physical Chemistry and Functional Materials, 25 - 27 June 2019
- IV. **Chemist'xxs Perspective in Cancer**
ERKAN S.
I. INTERNATIONAL CANCER DAYS, 19 - 21 September 2019
- V. **A Theoretical Study on Spectroscopic and Anticancer Activities of PlatinumComplexes**
MA KHALID H. H. , ERKAN S., BULUT N.
I. INTERNATIONAL CANCER DAYS, 19 - 21 September 2019
- VI. **SPECTROSCOPIC AND MOLECULAR DOCKING STUDY ON α -AMINOPHOSPHONATES CONTAINING THIADIAZOLE MOIETY WITH ANTI-CANCER PROPERTIES**
KEBİROĞLU H., ERKAN S., BULUT N.
I. INTERNATIONAL CANCER DAYS, 19 - 21 September 2019
- VII. **Computational research on the molecular properties and anti-tumor activity ofPt (II) complexes with a chiral halogenated Schiff base ligand**
KAYA S., ERKAN S., KARAKAŞ D.
I. INTERNATIONAL CANCER DAYS, 19 - 21 September 2019
- VIII. **Computational research on the molecular properties and anti-tumor activity of Pt (II) complexes with a chiral halogenated Schiff base ligand**
Kaya S., ERKAN S., KARAKAŞ D.
I. International Cancer Days, 19 - 21 September 2019, pp.455
- IX. **Determination of Biological Reactivity against Lung Cancer Cell andInvestigations of NLO Properties of Ciprofloxacin-Boron Complexes**
SAYIN K., ERKAN KARİPER S.
2nd International Conference on Physical Chemistry Functional Materials, 25 - 27 June 2019
- X. **Computational Analysis of Structural, Spectroscopic and NLO Propertieson Molybdenum Carbonyl Complexes with 4,4'xx-Dipyridylacetylene BridgeLigand and Triphenyl Phosphine and Triphenoxy Phosphine Terminalligand**
ERKAN KARİPER S., KARAKAŞ D.
2nd International Conference on Physical Chemistry Functional Materials, 25 - 27 June 2019
- XI. **Computational study on molybdenum-based metal carbonylcomplexes**
ERKAN KARİPER S., KARAKAŞ D.
2nd International Conference on Physical Chemistry Functional Materials, 25 - 27 June 2019
- XII. **Quantum Chemical Calculations on Manganese Complexes with PentaAmine Macrocyclic Schiff Base Ligand: Computational and Molecular Docking**
ERKAN KARİPER S., SAYIN K., KARAKAŞ D.
2nd International Conference on Physical Chemistry Functional Materials, 25 - 27 June 2019
- XIII. **Quantum Chemical Calculations on Ag and Pb Complexes withPenta-Amine Macrocyclic Schiff Base Ligand: Computational andMolecular Docking Analyses**
SAYIN K., ERKAN KARİPER S., KARAKAŞ D.

2nd International Conference on Physical Chemistry Functional Materials, 25 - 27 June 2019

- XIV. **Chemical Property of Platinum Complexes**
MA KHALID H. H. , ERKAN KARİPER S., BULUT N.
2nd International Conference on Physical Chemistry Functional Materials, 25 - 27 June 2019
- XV. **NLO Properties and Molecular Docking Study Molybdenum CarbonylComplexes with Pyridyl Ligands with Alkyne Unit**
ERKAN KARİPER S., KARAKAŞ D.
2nd International Conference on Physical Chemistry Functional Materials, 25 - 27 June 2019
- XVI. **Quantum Chemical Calculations on Manganese Complexes with Penta-Amine Macrocyclic Schiff Base Ligand: Computational and Molecular Docking Analyses**
ERKAN S., SAYIN K., KARAKAŞ D.
2nd International Conference on Physical Chemistry and Functional Materials(PCFM'19), Nevşehir, Turkey, 25 - 27 June 2019, pp.21
- XVII. **Quantum Chemical Calculations on Ag and Pb Complexes withPenta-Amine Macrocyclic Schiff Base Ligand: Computational andMolecular Docking Analyses**
SAYIN K., ERKAN S., KARAKAŞ D.
2nd International Conference on Physical Chemistry and Functional Materials (PCFM'xx19), 25 - 27 June 2019, pp.82
- XVIII. **Quantum Chemical Calculations on Ag and Pb Complexes with Penta-Amine Macrocyclic Schiff Base Ligand: Computational and Molecular Docking Analyses**
SAYIN K., ERKAN S., KARAKAŞ D.
2nd International Conference on Physical Chemistry and Functional Materials, 25 - 27 June 2019
- XIX. **NLO Properties and Molecular Docking Study Molybdenum Carbonyl Complexes with Pyridyl Ligands with Alkyne Unit**
ERKAN S., KARAKAŞ D.
2nd International Conference on Physical Chemistry and Functional Materials(PCFM'19), Nevşehir, Turkey, 25 - 27 June 2019, pp.15
- XX. **Computational study on molybdenum-based metal carbonylcomplexes**
ERKAN S., KARAKAŞ D.
2nd International Conference on Physical Chemistry and Functional Materials(PCFM'19), 25 - 27 June 2019, pp.1
- XXI. **Computational Analysis of Structural, Spectroscopic and NLO Properties on Molybdenum Carbonyl Complexes with 4,4'xx-Dipyridylacetylene Bridge Ligand and Triphenyl Phosphine and Triphenoxy Phosphine Terminal Ligand**
ERKAN S., KARAKAŞ D.
2nd International Conference on Physical Chemistry and Functional Materials(PCFM'19), Nevşehir, Turkey, 25 - 27 June 2019, pp.8
- XXII. **Determination of Biological Reactivity against Lung Cancer Cell and Investigations of NLO Properties of Ciprofloxacin-Boron Complexes**
SAYIN K., ERKAN S.
2nd International Conference on Physical Chemistry and Functional Materials, 25 - 27 June 2019
- XXIII. **The structural, spectroscopic and molecular docking analysis on phosphorusnitrogen compounds**
ERKAN KARİPER S., TÜZÜN B.
2rd International Symposium on Innovative Approaches in Scientific Studies, 30 November - 02 December 2018
- XXIV. **İnvestigation of Spectroscopic, Theoretical and Molecular Docking of vanilin thiosemicarbazone derivatives**
TÜZÜN B., ERKAN S.
2nd international symposium on innovative approaches in scientific studies, 30 November - 02 December 2018
- XXV. **Computational studies on the vanadocene dithiocarbamate complexes**
ERKAN KARİPER S.
2nd International Symposium on Innovative Approaches in Scientific Studies, 30 November - 02 December 2018
- XXVI. **Investigation of Spectroscopic, Theoretical and Molecular Docking of vanillin thiosemicarbazone**

derivatives

TÜZÜN B., ERKAN KARİPER S.

2nd International Symposium on Innovative Approaches in Scientific Studies, 30 November - 02 December 2018

- XXVII. **The computational analysis on NLO properties and molecular docking studies for some cyclophosphazenes compounds**

ERKAN KARİPER S., TÜZÜN B.

2nd International Symposium on Innovative Approaches in Scientific Studies, 30 November - 02 December 2018

- XXVIII. **Investigation of Spectroscopic, Theoretical and Molecular Docking of methoxyphenyl derivatives**

TÜZÜN B., ERKAN KARİPER S.

2nd International Symposium on Innovative Approaches in Scientific Studies, 30 November - 02 December 2018

- XXIX. **Investigation of anti-cancer properties of derivatives of 2-benzimidazole**

TÜZÜN B., ERKAN KARİPER S.

2nd International Symposium on Innovative Approaches in Scientific Studies, 30 November - 02 December 2018

- XXX. **Investigation of Some Antibiotics with Computational Chemistry Methods**

ERKAN KARİPER S.

International Eurasian Congress on Natural Nutrition and Healthy Life'xx 2018, 12 - 15 July 2018

- XXXI. **Investigation of β -Diketonate Ligand and Metal Complexes: Molecular Docking and Spectroscopic Properties by Computational Chemistry Methods**

ERKAN KARİPER S., TÜZÜN B.

International Conference on Physical Chemistry and Functional Materials, 19 - 21 June 2018

- XXXII. **Spectroscopic Analysis of Complexes with N-alkyl-N-phenyl Dithiocarbamate Ligand Containing Trace Mine Zinc Metals with Computational Chemistry Methods**

ERKAN KARİPER S.

International Trace Analysis Congress, 20 May - 23 June 2018

- XXXIII. **Examination of Vaniline Thiosemicarbazone Ligand and Trace Metal Copper Spectroscopic Properties by Computational Chemistry Methods**

ERKAN KARİPER S., TÜZÜN B.

International Trace Analysis Congress(iTAC 2018), Sivas, Turkey, 20 - 23 June 2018

- XXXIV. **Computational Studies on Schrock Type $\text{Mo}(\text{CO})_5(\text{Cme}_2)$ and $\text{Mo}(\text{CO})_5(\text{Cmeet})$ Alkyliden Complexes Based on Density Functional Theory**

özçiftci h., ERKAN S., SAYIN K., KARAKAŞ D.

International Trace Analysis Congress(iTAC 2018), 20 - 23 June 2018

- XXXV. **Investigation of 1-Allyl-3-Butylbenzimidazolium-Derived Silver (I) Complexes in Terms of Structure and Biological Activity by Computational Chemistry Methods**

SAYIN K., ERKAN KARİPER S., KARAKAŞ D.

International Conference on Physical Chemistry and Functional Materials, 19 - 21 June 2018

- XXXVI. **Bazı β -Lactam İnhibitörleri Üzerine Kuantum Kimyasal Çalışmalar**

ERKAN KARİPER S., SAYIN K., KARAKAŞ D.

v. ulusal anorganik kimya kongresi, Turkey, 22 April 2015 - 25 April 2018

- XXXVII. **Yoğunluk Fonksiyon Teori Metoduyla $[\text{MgO}_2\text{Ti}_2(\text{OPri})_6]$, $[\text{MgO}_2\text{Ti}_2(\text{OPri})_2(\text{Acac})_4]$ ve $[\text{MgO}_2\text{Ti}_2(\text{OPri})_2(\text{bzac})_4]$ Kompleksleri Üzerine Hesapsal Çalışmalar**

SAYIN K., KARAKAŞ D., ERKAN KARİPER S.

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- XXXVIII. **Investigation of Structural, Spectroscopic and Optical Properties of Some Dinuclear Metal Carbonyls Containing Pyridyl Ligands with Alkyne Unit by Using Quantum Chemical Calculations and Quantum Chemical Approaches on the Catalytic Activities of Complexes**

ERKAN KARİPER S.

2nd International Conference on Catalysis and Chemical Engineering, 19 - 21 February 2018

- XXXIX. **Mer- $[\text{Ru}(\text{Cl-Ph-tpy})(\text{N-N})(\text{X})]$ Tipi Rutenyum (II) Komplekslerinin Yapısal, Elektronik ve Antikanser Özelliklerinin Hesaplamalı Kimya Yöntemleriyle Araştırılması**

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- XL. **ANTİ-KANSER ÖZELLİĞİ TAŞIYAN SİKLOMETALAT İRİDYUM(III) KOMPLEKSLERİ ÜZERİNE YAPISAL, SPEKTROSKOPİK VE KUANTUM KİMYASAL HESAPLAMALAR**
ERKAN KARİPER S., KARAKAŞ D.
3. Hesaplamalı Kimya Kongresi, Turkey, 12 - 14 October 2017
- XLI. **SPECTROSCOPIC AND QUANTUMCHEMICAL STUDIES ON SOME β -LACTAM INHIBITORS**
ERKAN KARİPER S.
2nd International Gazi Pharma Symposium Series, 11 - 13 October 2017
- XLII. **Structural, Spectroscopic and Quantum Chemical Calculations on Cyclometalated Iridium (III) Complexes with Anticancer Properties**
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- XLIII. **INVESTIGATIONS OF BIOLOGICAL PROPERTIES OF SOMEMETAL (MN, PD AND AG) COMPLEXES WITH PENTA-AMINEMACROCYCLIC SCHIFF BASE LIGAND: MOLECULAR DOCKINGCALCULATIONS**
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- XLIV. **2-[(E)-(3,4-dimethylphenyl)imino]methyl]-6-methoxy-4-[(E)-phenyldiazenyl]phenol esaslı Cu(II), Zn(II) Komplekslerinin Sentezi ve Bazı Spektral Özellikleri**
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- XLV. **YENİ AZO-AZOMETİN ESASLI Cu(II), Zn(II) KOMPLEKSLERİNİN SENTEZİ ve SPEKTRAL ÖZELLİKLERİ**
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- XLVI. **İnvestigation of solvent effect on biological reactivity, UV-VIS and NMR analyses of Zn(II) complexes with pentaaza macrocyclic schiff-base ligand**
SAYIN K., KARAKAŞ D., KARAKUŞ N., ERKAN KARİPER S.
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- XLVII. **Azo-azometin Ligandı ve Cu(II) Kompleksinin Sentezi, Kararlılık ve Elektrokimyasal Özellikleri**
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V. ULUSAL ANORGANİK KİMYA KONGRESİ, Turkey, 22 - 25 April 2015
- XLVIII. **Bazı Çinko(II) Komplekslerinin Biyolojik Aktiflik Sıralamasının Hesapsal Yöntemlerle Belirlenmesi**
SAYIN K., ERKAN KARİPER S., sayın alagöz t., KARAKAŞ D.
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- XLIX. **Metansülfonilhidrazon Temelli Krompentakarbonil Kompleksleri Üzerine Yapısal, Spektroskopik ve AktiviteHesaplamaları**
ERKAN KARİPER S., SAYIN K., KARAKAŞ D.
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- L. **Bipridin ve Pridil-Primidin-4-Karboksilik Asit Temelli Ligantları İçeren Ru(II) Komplekslerinin Yapısal ve AntitümörÖzellikleri Üzerine Teorik Çalışma**
KARAKAŞ D., SAYIN K., ERKAN KARİPER S.
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- LI. **Oksimato Köprülü trans-Platin(II) Kompleksi üzerine Kuantum Kimyasal Çalışmalar**
SAYIN K., KARAKAŞ D., ERKAN KARİPER S.
IV. Fiziksel Kimya Kongresi, Turkey, 5 - 08 June 2014
- LII. **Oksimato köprülü trans platin II kompleksi üzerine kuantum kimyasal çalışmalar**
SAYIN K., KARAKAŞ D., ERKAN S.
Pamukkale Üniversitesi, IV. Fiziksel Kimya Kongresi, Denizli, Turkey, 5 - 08 June 2014
- LIII. **Platin II oksim kompleksinin ^{13}C ve ^1H NMR spektrumlarının hesaplamalı kimya yöntemleriyle incelenmesi**
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Yüzüncü Yıl Üniversitesi, I. Uluslar Arası Katılımlı Ulusal Hesaplamalı Kimya Çalıştayı, Van, Turkey, 29 - 31 May 2014

- LIV. **Schiff baz ligantlı oksovanadyum IV komplekslerinin antidiabetik aktivitesi üzerine elektronik yapı etkisinin teorik olarak araştırılması**
KARAKAŞ D., ERKAN S., SAYIN K.
Yüzüncü Yıl Üniversitesi, I. Uluslar Arası Katılımlı Ulusal Hesaplamalı Kimya Çalıştayı, Van, Turkey, 29 - 31 May 2014
- LV. **Bazı iki dişli Schiff baz ligandlarının bakır(II) komplekslerinin hesaplamalı yöntemlerle yapısal analizi**
ERKAN KARİPER S., KAYA S., KARAKAŞ D.
IV Ulusal Anorganik Kimya Kongresi, Turkey, 30 May - 02 June 2013
- LVI. **Ab initio moleküler orbital yöntemleri ile Co₂(CO)₈ izomerlerinin moleküler yapı parametrelerinin ve titreşim frekanslarının hesaplanması**
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- LVII. **AB initio moleküler orbital yöntemleri ile Co₂(CO)₈ izomerlerinin moleküler yapı parametrelerinin ve titreşim frekanslarının hesaplanması**
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IV Ulusal Anorganik Kimya Kongresi, Turkey, 30 May - 02 June 2013
- LVIII. **Bazı iki dişli Schiff baz ligandlarının bakır II komplekslerinin hesaplamalı yöntemlerle yapısal analizi**
ERKAN S., KAYA S., KARAKAŞ D.
GOP Üniversitesi, IV Ulusal Anorganik Kimya Kongresi, Turkey, 30 May - 02 June 2013
- LIX. **Theoretical studies on zinc complexes with schiff base ligand**
SAYIN K., ERKAN KARİPER S., KARAKAŞ D.
10. Kimyasal Fizik Kongresi, 10 - 12 October 2012
- LX. **Quantum chemical studies on the corrosion inhibition of CrO₄²⁻, MoO₄²⁻ and NO₃⁻**
SAYIN K., KARAKAŞ D., ERKAN KARİPER S.
10. Kimyasal Fizik Kongresi, 10 October 2012
- LXI. **The investigation of inhibition efficiency some imidazole derivatives against iron with quantum chemical methods**
ERKAN KARİPER S., SAYIN K., KARAKAŞ D.
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- LXII. **DFT structural studies on copper(II) complexes with symmetric and unsymmetric tripodal tetramine ligands**
ERKAN KARİPER S., SAYIN K., KARAKAŞ D.
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- LXIII. **Quantum chemical studies on the corrosion inhibition of CrO₄²⁻ MoO₄²⁻ and NO₃⁻**
SAYIN K., KARAKAŞ D., ERKAN S.
TOBB Ekonomi ve Teknoloji Üniversitesi 10. Kimyasal Fizik Kongresi (CPC-X), 10 - 12 October 2012
- LXIV. **The investigation of inhibition efficiency some imidazole derivatives against iron with quantum chemical methods**
ERKAN S., KARAKAŞ D.
TOBB Ekonomi ve Teknoloji Üniversitesi 10. Kimyasal Fizik Kongresi (CPC-X), 10 - 12 October 2012
- LXV. **DFT structural studies on copper II complexes with symmetric and unsymmetric tripodal tetramine ligands**
ERKAN S., SAYIN K., KARAKAŞ D.
TOBB Ekonomi ve Teknoloji Üniversitesi 10. Kimyasal Fizik Kongresi (CPC-X), 10 - 12 October 2012
- LXVI. **Theoretical studies on zinc complexes with schiff base ligand**
SAYIN K., ERKAN S., KARAKAŞ D.
TOBB Ekonomi ve Teknoloji Üniversitesi 10. Kimyasal Fizik Kongresi (CPC-X), 10 - 12 October 2012

Supported Projects

Karakaş D., Erkan S., Project Supported by Higher Education Institutions, Anti-kanser özelliği taşıyan siklometalat iridyum(III) kompleksleri üzerine yapısal, spektroskopik ve kuantum kimyasal hesaplamalar, 2016 - 2020

Karakaş D., Erkan S., Sayın K., Project Supported by Higher Education Institutions, Mer-[Ru(Cl-Ph-tpy)(N-N)(X)] Tipi Rutenyum (II) Komplekslerinin Yapısal, Elektronik ve Antikanser Özelliklerinin Hesaplamalı Kimya Yöntemleriyle Araştırılması, 2017 - 2019

Karakaş D., Sayın K., Erkan S., Sayın T., Project Supported by Higher Education Institutions, Mono- ve Bis-N-Heterosiklik Karbenli Ag(I) ve Pd(II) Komplekslerinin Yapısal, Spektral ve Antikanser Özelliklerinin Hesaplamalı Kimya Yöntemleriyle İncelenmesi, 2017 - 2018

Karakaş D., Sayın K., Erkan S., Project Supported by Higher Education Institutions, 2-primidil 2-primidin-4-karboksilik asit ligantlarını içeren Ru II komplekslerinin antitümör özellikleri üzerine teorik çalışma, 2014 - 2015

Activities in Scientific Journals

Turkish Computational and Theoretical Chemistry, Committee Member, 2017 - Continues

Scientific Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, Kahramanmaraş Sutcu Imam University, Turkey, December 2019

Turkish Computational and Theoretical Chemistry , Other Indexed Journal, November 2019

Cumhuriyet Science Journal, National Scientific Refreed Journal, November 2019

CHEMICAL PAPERS, SCI Journal, June 2019

Tasks In Event Organizations

Erkan S., 2nd International Conference on Physical Chemistry & Functional Materials, Scientific Congress, Nevşehir, Turkey, Haziran 2019

Edit Congress and Symposium Activities

1. ULUSLARARASI KANSER GÜNLERİ, Panelists, Sivas, Turkey, 2019

2nd International Conference on Physical Chemistry & Functional Materials, Moderator, Elazığ, Turkey, 2019

Citations

Total Citations (WOS):237

h-index (WOS):9

Invited Talks

Investigation of Structural, Spectroscopic, Optical Properties and Catalytic Activities of Some Dinuclear Metal Carbonyls Containing Pyridyl Ligands with Alkyne Unit by Using Quantum Chemical Calculations, Conference, 2nd International Conference on Catalysis and Chemical Engineering, France, February 2018

Awards

Erkan S., üniversite birincilik ödülü, Cumhuriyet Üniversitesi, June 2010