



# SULTAN ERKAN

## ASSOC. PROF.

Email : sultanerkan@cumhuriyet.edu.tr

### International Researcher IDs

ScholarID: t0ETUIIAAAJ

Yoksis Researcher ID: 257661

### Education

Doctorate  
2013 - 2016

Turkey

Postgraduate  
2010 - 2013

Turkey

### Supported Projects

1. 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
2. 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
3. Erkan S., Project Supported by Higher Education Institutions, Thiosemikarbazan türevli organik bileşiklerin ve onların metal komplekslerinin yapısal, spektroskopik ve biyolojik aktivitelerinin hesaplamalı kimya metotları ile incelenmesi, 2018 - 2019
4. 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
5. 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
6. Karakaş D., Sayın K., Erkan S., Project Supported by Higher Education Institutions, 2-pridil 2-primidin-4-karboksilik asit ligantlarını içeren Ru II komplekslerinin antitümör özelliklerini üzerine teorik çalışma, 2014 - 2015

### Awards

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

### 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

1. **Synthesis, spectroscopic and electronic structure analyses, DFT studies and molecular docking applications of isatin hydrazone derivatives**  
ERKAN S., Yıldız C. A.  
Journal of Molecular Structure, vol.1327, 2025 (SCI-Expanded)
2. **Copper(II) complexes with N,O-donor azo-Schiff base ligands: Synthesis, structure, DFT studies, molecular docking, anticancer and antimicrobial activity**  
Kahraman S., Hepokur C., Erci F., ERKAN S., Cetin S., Kose M., Kurtoglu M.  
Polyhedron, vol.269, 2025 (SCI-Expanded)
3. **Exploring the Antioxidant, Antimicrobial, Antidiabetic, and Anticancer Properties of Capsicum annuum L. (Samandağ Pepper): Biochemical and In Silico Insights**  
TUNÇ T., ÖZPINAR H., KOÇYİĞİT Ü. M., ERKAN S.  
ChemistrySelect, vol.9, no.48, 2024 (SCI-Expanded)
4. **New Cu (II) and Zn (II) metal chelates derived from azo-Schiff bases: Synthesis, DNA/BSA binding, anticancer activity and molecular docking studies**  
Kahraman S., Gungor O., ERKAN S., Karagoz I. D., Kose M., Kurtoglu M.  
Applied Organometallic Chemistry, vol.38, no.11, 2024 (SCI-Expanded)
5. **Synthesis, crystal structure, Hirshfeld surface analyses, and DFT studies of (S)-2-(3,5-di-tert-butyl-4-hydroxyphenyl)-3,3-diethoxy-1-phenylpropan-1-one**  
Khalilov A. N., Cisterna J., Cárdenas A., TÜZÜN B., ERKAN S., Gurbanov A. V., Brito I.  
Journal of Molecular Structure, vol.1313, 2024 (SCI-Expanded)
6. **One-Pot Synthesis and Computational Investigation of New Bioactive Chromene Derivatives**  
Bahe A., Mishra A., Pratibha P., BATIR G. G., ERKAN S., Shukla N., Kashaw S., Das R.  
Russian Journal of General Chemistry, vol.94, no.8, pp.2088-2100, 2024 (SCI-Expanded)
7. **Mononuclear and binuclear dioxidomolybdenum(VI) chelates derived from a tridentate ONO donor aroylhydrazone: Spectral, structural, DFT and in silico biological investigations**  
Aravindakshan A. A., Mohan N., Kurup M. P., ERKAN S., BATIR G. G., Manoj E.  
Polyhedron, vol.256, 2024 (SCI-Expanded)
8. **Spectroscopic, crystal structure and DFT-assisted studies of some nickel(II) chelates of a heterocyclic-based NNO donor arylhydrazone: in vitro DNA binding and docking studies**  
Nair Y., Joy F., Vinod T., Vineetha M., Kurup M. R. P., KAYA S., SERDAROĞLU G., ERKAN S.  
Molecular Diversity, vol.28, no.2, pp.509-530, 2024 (SCI-Expanded)
9. **The Anticancer Potentials of Substituted Indeno[1,2-b]quinoline Amines against HT29 and SW620: Experimental and In silico Approach**  
Ökten S., AYDIN A., ERKAN S., Tutar A.  
Letters in Drug Design and Discovery, vol.21, no.1, pp.143-151, 2024 (SCI-Expanded)
10. **Assessing cytotoxic activities, theoretical and in silico molecular docking calculations of phthalocyanines bearing cinnamyloxy-groups**  
Özten Ö., Kuznetsov A. E., GÖKÇE M., ERKAN S., Bulut E., TAŞKIN Ö. S., ZENGİN KURT B., Yıldız M. Z., Sobotta L., Güzel E.  
Journal of Biomolecular Structure and Dynamics, vol.42, no.21, pp.11931-11941, 2024 (SCI-Expanded)
11. **Bromination and conversion of tetrahydro-1H-indene to bisoxirane with a new approach: synthesis, structural characterization by spectroscopic and theoretical methods, and biological analysis supported by DFT and docking**  
Yılmaz R. F., Erkan S., Ökten S., Tutar A., Şahin E.

- TURKISH JOURNAL OF CHEMISTRY, vol.47, no.6, pp.1459-1478, 2023 (SCI-Expanded)
12. **Investigation of Antimicrobial Activities and Molecular Docking Studies of Synthesized Sulfonamide Compounds**  
Ozbey G., Tanrıverdi E., Şenkal B. F., Korkmaz B., ERKAN S., Bulut N., Zigo F., OTLU B.  
Pharmaceutical Chemistry Journal, vol.57, no.9, pp.1394-1400, 2023 (SCI-Expanded)
13. **Modeling, spectroscopic structural properties of platinum-II complexes of 2-((phenylimino)methyl)phenolate-based ligands and research of nonlinear optical, organic light emitting diode and solar cell performances**  
ERKAN S., KARAKAŞ D.  
Materials Today Communications, vol.37, 2023 (SCI-Expanded)
14. **In Silico and In Vitro Studies of Novel Azomethines on DNA Repair Genes in Gastric Cell Lines.**  
Ozturk A., Agbekta T., Huseynzada A., Guliyev R., Ganbarova R., Hasanova U., Tas A., Erkan S., Zontul C., Inandiklioglu N., et al.  
Life (Basel, Switzerland), vol.13, no.10, 2023 (SCI-Expanded)
15. **Synthesis, docking studies, in vitro cytotoxicity evaluation and DNA damage mechanism of new tyrosine-based tripeptides**  
Çalışkan E., Kaplan A., Şekerci G., ÇAPAN İ., TEKİN S., ERKAN S., Koran K., SANDAL S., GÖRGÜLÜ A. O.  
Journal of Biochemical and Molecular Toxicology, vol.37, no.8, 2023 (SCI-Expanded)
16. **Analysis of boronic acids containing amino ferrocene by DFT approach and in silico studies**  
Muhammad U. S., ERKAN S., KAYA S.  
Journal of Molecular Structure, vol.1284, 2023 (SCI-Expanded)
17. **Investigation of substituent effect on rhenium complexes by DFT methods: Structural analysis, IR spectrum, quantum chemical parameter, NLO and OLED properties, molecular docking**  
Yıldız C. A., Güney E., Nasif V., KARAKAŞ D., ERKAN S.  
Journal of Molecular Structure, vol.1278, 2023 (SCI-Expanded)
18. **Equilibrium and DFT modeling studies for the biosorption of Safranin O dye from water samples using *Bacillus subtilis* biosorbent**  
ÇETİNKAYA S., KAYA S., Aksu A., ÇETİN TAŞ H. İ., Jalbani N. S., ERKAN S., Marzouki R.  
Journal of Molecular Structure, vol.1276, 2023 (SCI-Expanded)
19. **A series of phenanthroline-imine compounds: Computational, OLED properties and fluorimetric sensing of nitroaromatic compounds**  
Kose A., ERKAN S., Tümer M.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.286, 2023 (SCI-Expanded)
20. **Chemical composition, antimicrobial activities, and molecular docking studies of Turkish propolis ethanol extract**  
Ozbey G., Muz M. N., Tanrıverdi E. S., ERKAN S., Bulut N., OTLU B., Zigo F.  
Czech Journal of Food Sciences, vol.41, no.2, pp.144-154, 2023 (SCI-Expanded)
21. **Equilibrium and Computational Chemical Modelling Studies for the Removal of Methyl Orange and Methyl Red Dyes from Water Using Modified Silica Resin**  
Junejo R., Shams Jalbani N., BATIR G. G., ERKAN S., Marzouki R., Memon S.  
International Journal of Environmental Analytical Chemistry, vol.103, no.19, pp.8000-8016, 2023 (SCI-Expanded)
22. **Manganese(III) Acetate-Based Radical Cyclization Reactions for Pyranocoumarin and Pyranoquinoline Compounds: Synthesis, DFT and Molecular Docking Studies**  
YAKUT M., YILMAZ M., Pekel T., ERKAN S., Katircı R., Biçer E.  
ChemistrySelect, vol.7, no.44, 2022 (SCI-Expanded)
23. **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., Ballı J. N., ERKAN S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1268, 2022 (SCI-Expanded)
24. **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, vol.36, no.9, 2022 (SCI-Expanded)
25. **Synthesis of New Cinnamoyl-Amino Acid Conjugates and in Vitro Cytotoxicity and Genotoxicity Studies**  
Caliskan E., Ozturk D. A., KORAN K., TEKİN S., SANDAL S., ERKAN S., GÖRGÜLÜ A. O., ÇETİN A.  
CHEMISTRY & BIODIVERSITY, vol.19, no.8, 2022 (SCI-Expanded)
26. **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, vol.36, no.5, 2022 (SCI-Expanded)
27. **Determination of structural, spectral, computational and OLED properties of Ex2.2Box2+ Cyclophane and its derivatives: Experimental and computational study**  
SAYIN K., Rezaeivala M., ERKAN S., Güney E.  
Journal of Molecular Structure, vol.1253, 2022 (SCI-Expanded)
28. **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 (SCI-Expanded)
29. **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 (SCI-Expanded)
30. **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 (SCI-Expanded)
31. **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, vol.40, no.16, pp.7424-7438, 2022 (SCI-Expanded)
32. **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, vol.40, no.2, pp.733-741, 2022 (SCI-Expanded)
33. **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 (SCI-Expanded)
34. **Halogens effect on spectroscopy, anticancer and molecular docking studies for platinum complexes**  
Khalid H. H., ERKAN S., BULUT N.  
OPTIK, vol.244, 2021 (SCI-Expanded)
35. **Application of pyrrolidinomethylcalix[4]arene coated silica adsorbent for the removal of Chicago sky blue 6B dye from water samples: Equilibrium and computational modelling studies**  
Junejo R., Jalbani N. S., KAYA S., ERKAN S., Ebenso E. E.  
SUPRAMOLECULAR CHEMISTRY, vol.33, no.10, pp.586-597, 2021 (SCI-Expanded)
36. **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, vol.35, no.6, pp.1-9, 2021 (SCI-Expanded)
37. **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 (SCI-Expanded)
38. **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 (SCI-Expanded)
39. **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 (SCI-Expanded)
40. **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., Touir R., Erkan S., Kaya S., El Ibrahimi B.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.124, 2021 (SCI-Expanded)
41. **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 (SCI-Expanded)
42. **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 (SCI-Expanded)
43. **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 (SCI-Expanded)
44. **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 (SCI-Expanded)
45. **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 (SCI-Expanded)
46. **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 (SCI-Expanded)
47. **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 (SCI-Expanded)
48. **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 (SCI-Expanded)
49. **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 (SCI-Expanded)
50. **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 (SCI-Expanded)

51. 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 (SCI-Expanded)
52. 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 (SCI-Expanded)
53. Structural, spectral characterization and molecular docking analyses of mer-ruthenium (II) complexes containing the bidentate chelating ligands  
Erkan S., Kaya S., Sayın K., Karakaş D.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.224, 2020 (SCI-Expanded)
54. 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 (SCI-Expanded)
55. Activity of the rocuronium molecule and its derivatives: A theoretical calculation  
ERKAN KARİPER S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1189, pp.257-264, 2019 (SCI-Expanded)
56. 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 (SCI-Expanded)
57. Pamoic acid esters and their xanthene derivatives: Flourimetric 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 (SCI-Expanded)
58. 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., Atabay H., KARAKAŞ D., KURTOĞLU M.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1149, pp.520-529, 2017 (SCI-Expanded)
59. 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 (SCI-Expanded)
60. 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 (SCI-Expanded)
61. 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 (SCI-Expanded)
62. 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 (SCI-Expanded)
63. 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 (SCI-Expanded)

## Articles Published in Other Journals

1. **Investigation of Anticancer Properties of 2-benzylidene-1-indanone and Its Derivatives by DFT and Molecular Docking**  
Yıldız C. A., ERKAN S.  
Turkish Computational and Theoretical Chemistry, vol.8, no.2, pp.101-109, 2024 (Scopus)
2. **Investigation of Antiviral Activities of Nickel and Copper Complexes with Macrocyclic Ligands against Crimean-Congo Hemorrhagic Fever by In Silico Calculations**  
ERKAN S., BULUT N., KARAKAŞ D.  
CUMHURIYET SCIENCE JOURNAL, vol.44, 2023 (Peer-Reviewed Journal)
3. **Investigation of the Effect of Main Components of Wild Thyme on Covid-19 by Computational Methods**  
KAYA S., ERKAN S., KARAKAŞ D.  
CUMHURIYET SCIENCE JOURNAL, vol.44, 2023 (Peer-Reviewed Journal)
4. **Computational Structure Characterization of 1,2,3-Selendiazole Isomers, Investigation of Some Molecular Properties and Biological Activities**  
ERKAN S., dikyol d. c.  
CUMHURIYET SCIENCE JOURNAL, vol.43, no.2, pp.246-256, 2022 (Peer-Reviewed Journal)
5. **LIGHT-EMITTING PROPERTIES OF PYRIMIDINE-5-CARBONITRILE DERIVATIVES AND DIFFERENTLY SUBSTITUTED CARBAZOLES: A THEORETICAL CALCULATION**  
KARAKOYUN N., ERKAN S.  
International Journal of Innovative Engineering Applications, vol.6, no.1, pp.55-58, 2022 (Peer-Reviewed Journal)
6. **Investigations of structural, spectral (IR and NMR) and in silico analyses of boron compounds as SERM inhibitor**  
KAYA S., SAYIN K., ERKAN S., KARAKAŞ D.  
Chemical Data Collections, vol.37, 2022 (Peer-Reviewed Journal)
7. **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 (Peer-Reviewed Journal)
8. **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 (Peer-Reviewed Journal)
9. **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 (Scopus)
10. **Spectroscopic and Quantum Chemical Studies on Some  $\beta$ -Lactam Inhibitors**  
ERKAN KARİPER S.  
Turkish Computational and Theoretical Chemistry, vol.1, no.2, pp.13-26, 2017 (Scopus)
11. **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 (Peer-Reviewed Journal)
12. **EFFECT OF SOME ELECTRON DONOR AND ELECTRON ACCEPTOR GROUPS ON STABILITY OF COMPLEXES ACCORDING TO THE PRINCIPLE OF HSAB**

## Books

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83. **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
84. **Quantum chemical studies on the corrosion inhibition of CrO<sub>4</sub><sup>2-</sup> MoO<sub>4</sub><sup>2-</sup> and NO<sub>3</sub><sup>-</sup>**  
SAYIN K., KARAKAŞ D., ERKAN S.  
TOBB Ekonomi ve Teknoloji Üniversitesi 10. Kimyasal Fizik Kongresi (CPC-X), 10 - 12 October 2012
85. **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

## Courses

### Associate Degree

- 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 Hesaplama, Associate Degree, 2016 - 2017  
Özel Gıdalar Teknolojisi, Associate Degree, 2016 - 2017

## Activities in Scientific Journals

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

## Peer Reviews in Scientific Publications

- 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

## Scientific Project Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, December 2019

### Tasks In Event Organizations

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

### Metrics

Publication: 170

Citation (WoS): 969

Citation (Scopus): 969

H-Index (WoS): 18

H-Index (Scopus): 18

### Congress and Symposium Activities

International Energy Days 2022, Moderator, Sivas, Turkey, 2022

5th International Conference on Physical Chemistry & Functional Materials, Moderator, Sivas, Turkey, 2022

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

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

### 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

### Research Areas

Bioinorganic Chemistry, Organometallic Chemistry