

Prof. KORAY SAYIN

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International Researcher IDs

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Publons / Web Of Science ResearcherID: V-3704-2017

Yoksis Researcher ID: 25762

Education Information

Doctorate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2014 - 2017

Postgraduate, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 2012 - 2014

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2005 - 2009

Dissertations

Doctorate, Hesaplamalı kimya yöntemleriyle bazı bor komplekslerinin yapısal ve elektronik özelliklerinin incelenmesi, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 2017

Postgraduate, Hesaplamalı kimya yöntemleri ile bazı platin(II) oksim komplekslerinin moleküler yapısının ve moleküler özelliklerinin araştırılması, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2014

Research Areas

Inorganic Chemistry

Academic Titles / Tasks

Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2018 - Continues

Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2018 - 2018

Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2017 - 2018

Research Assistant, Sivas Cumhuriyet University, Fen Bilimleri Enstitüsü, 2011 - 2017

Academic and Administrative Experience

Sivas Cumhuriyet Üniversitesi, Yeni Ve Yenilenebilir Enerji Kaynakları Uygulama Ve Araştırma Merkezi, 2019 - Continues

Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2018 - Continues

Courses

Organometalik Kimya, Undergraduate, 2019 - 2020
Kimya, Undergraduate, 2019 - 2020
Seminer Dersi, Postgraduate, 2019 - 2020
Genel Kimya, Undergraduate, 2019 - 2020
Hesaplamalı Kimya Yöntemleri ve Uygulamaları II, Postgraduate, 2018 - 2019
Genel Kimya II, Undergraduate, 2018 - 2019
Genel Kimya, Undergraduate, 2019 - 2020
Koordinasyon Kimyası, Postgraduate, 2019 - 2020
Genel Kimya Laboratuvarı I, Undergraduate, 2019 - 2020
Genel Kimya I, Undergraduate, 2019 - 2020
Genel Kimya, Associate Degree, 2019 - 2020
Hesaplamalı Kimya Yöntemleri ve Uygulamaları I, Postgraduate, 2019 - 2020
GENEL KİMYA 2, Undergraduate, 2017 - 2018
GENEL KİMYA, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis of novel isostere analogues of naphthyridines using CuI catalyst: DFT computations (FMO, MEP), molecular docking and ADME analysis**
Prabha K., Rajendran S., Gnanamangai B. M., Mohan J B., SAYIN K., Prasad K. R., Tüzün G.
Tetrahedron, vol.168, 2024 (SCI-Expanded)
- II. **Enhanced Method for the Synthesis and Comprehensive Characterization of 1-(4-Phenylquinolin-2-yl)propan-1-one**
Rajendran S., Montecinos R., Cisterna J., Prabha K., Rajendra Prasad K. J., Palakurthi S. S., Aljabali A. A. A., Naikoo G. A., Mishra V., Acevedo R., et al.
ACS Omega, vol.8, no.46, pp.43573-43585, 2023 (SCI-Expanded)
- III. **New azo-azomethine based copper(II) and zinc(II) complexes: Synthesis, electrochemistry, photoluminescence properties, density functional theory calculations and molecular docking**
Purtaş F., SAYIN K., Ceyhan G., Kose M., Kurtoglu M.
Journal of Molecular Structure, vol.1291, 2023 (SCI-Expanded)
- IV. **Optimization, spectral characterization, QSAR, and molecular docking analyses of newly designed boron compounds**
Çetiner E., SAYIN K., ÜNAL Y.
Structural Chemistry, vol.34, no.5, pp.1731-1742, 2023 (SCI-Expanded)
- V. **Synthesis, nanostructuring and in silico studies of a new imine bond containing a macroheterocycle as a promising PBP-2a non-β-lactam inhibitor**
Huseynzada A., Aghayev M., Hajiyeva S., Israyilova A., SAYIN K., Gasimov E., Rzayev F., Hasanova U., Eyvazova G., Abbasov V., et al.
Journal of Materials Chemistry B, vol.11, no.34, pp.8271-8280, 2023 (SCI-Expanded)
- VI. **[Cu₂(ox)(dien)₂](NO₃)₃, a precursor for preparation of CuO nanoparticles: Synthesis, structural, Hirshfeld surface analyses, and physico-chemical investigations**
Akouibaa M., Lakkab I., Direm A., Lachkar M., Ouarsal R., Rakib S., Nasif V., SAYIN K., Morley N., Bali B. E.
Journal of Molecular Structure, vol.1282, 2023 (SCI-Expanded)
- VII. **Improved carbon steel corrosion characteristics in static and hydrodynamic HCl media by two novel N2O2 ligands: Experimental and theoretical studies**
Karimi S., Rezaeivala M., Mokhtare M., Tuzun G., SAYIN K.
Journal of the Taiwan Institute of Chemical Engineers, vol.147, 2023 (SCI-Expanded)
- VIII. **Eaton's reagent is an alternative of PPA: Solvent free synthesis, molecular docking and ADME studies of new angular and linear carbazole based naphtho naphthyridines**
Prabha K., Satheeshkumar R., Aathi M. S., Chandrasekar C., Sukantha T. A., Gnanamangai B. M., Acevedo R., SAYIN K.,

Prasad K. J. R.

Tetrahedron, vol.135, 2023 (SCI-Expanded)

- IX. **Corrosion inhibition of Carbon Steel using a new morpholine-based ligand during acid pickling: Experimental and theoretical studies**
Rezaeivala M., Bozorg M., Rafiee N., SAYIN K., TÜZÜN B.
Inorganic Chemistry Communications, vol.148, 2023 (SCI-Expanded)
- X. **Crystal structure, Hirshfeld surface analysis, computational and antifungal studies of dihydropyrimidines on the basis of salicylaldehyde derivatives**
Huseynzada A., Jelsch C., Akhundzada H. V., Soudani S., Ben Nasr C., SAYIN K., DEMİRALP M., Hasanova U., Eyvazova G., Gakhramanova Z., et al.
JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.20, no.1, pp.109-123, 2023 (SCI-Expanded)
- XI. **Crystal Structure, Hirshfeld Surface Analysis, In-Silico and Antimycotic Investigations of Methyl 6-methyl-4-(4-nitrophenyl)-2-oxo-1,2-dihydropyrimidine-5-carboxylate**
Huseynzada A., Mori M., Meneghetti F., Israyilova A., Guney E., SAYIN K., Chiarelli L. R., DEMİRALP M., Hasanova U., Abbasov V.
Crystals, vol.13, no.1, 2023 (SCI-Expanded)
- XII. **Spectroscopic (FT-IR, NMR, single crystal XRD) and DFT studies including FMO, Mulliken charges, and Hirshfeld surface analysis, molecular docking and ADME analyses of 2-amino-4'-fluorobenzophenone (FAB)**
Satheeshkumar R., Prabha K., Vennila K. N., SAYIN K., Güney E., Kaminsky W., Acevedo R.
Journal of Molecular Structure, vol.1267, 2022 (SCI-Expanded)
- XIII. **Synthesis, crystal structure, Hirshfeld surface, computational and antibacterial studies of a 9-phenanthrenecarboxaldehyde-based thiodihydropyrimidine derivative**
Huseynzada A., Mori M., Meneghetti F., Israyilova A., Tuzun G., SAYIN K., Chiarelli L. R., Mutlu C., DEMİRALP M., Hasanova U., et al.
JOURNAL OF MOLECULAR STRUCTURE, vol.1267, 2022 (SCI-Expanded)
- XIV. **Synthesis, in silico and investigation of anti-breast cancer activity of new diphenyl urea derivatives: Experimental and computational study**
GÖMEÇ M., SAYIN K., ÖZKARACA M., ÖZDEN H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1265, 2022 (SCI-Expanded)
- XV. **Synthesis, computational analyses, antibacterial and antibiofilm properties of nicotinamide derivatives**
Taşkın Kafa A. H., Tuzun G., Guney E., Aslan R., Sayın K., Tüzün B., Ataseven H.
STRUCTURAL CHEMISTRY, vol.33, pp.1189-1197, 2022 (SCI-Expanded)
- XVI. **Experimental and computational investigation of 3,5-di-tert-butyl-2-(((3-((2-morpholinoethyl) (pyridin-2-ylmethyl) amino) propyl)imino) methyl)phenol and related reduced form as an inhibitor for C-steel**
Karimi S., Rezaeivala M., SAYIN K., TÜZÜN B.
MATERIALS CHEMISTRY AND PHYSICS, vol.287, 2022 (SCI-Expanded)
- XVII. **Revealing the new structure of B8N8 nanocage and comparison of hydrogen storage capacity**
Nasif V., SAYIN K.
CHEMICAL PHYSICS, vol.559, 2022 (SCI-Expanded)
- XVIII. **Experimental and theoretical investigation of corrosion inhibition effect of two piperazine-based ligands on carbon steel in acidic media**
Rezaeivala M., Karimi S., SAYIN K., TÜZÜN B.
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.641, 2022 (SCI-Expanded)
- XIX. **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)
- XX. **Synthesis, In Vitro Cytotoxicity, and DFT Studies of Novel 2-Amino Substituted Benzonaphthyridines**

as PDK1 Inhibitors

Prabha K., Satheeshkumar R., Nasif V., Saranya J., SAYIN K., Natarajan J., Chandrasekar C., Prasad K. J. R.
CHEMISTRYSELECT, vol.7, no.13, 2022 (SCI-Expanded)

- XXI. **Synthesis of diaryl urea derivatives and evaluation of their antiproliferative activities in colon adenocarcinoma**
GÖMEÇ M., YULAK F., GEZEĞEN H., ÖZKARACA M., SAYIN K., ATASEVEN H.
JOURNAL OF MOLECULAR STRUCTURE, vol.1254, 2022 (SCI-Expanded)
- XXII. **Design and in silico study of the novel coumarin derivatives against SARS-CoV-2 main enzymes**
ÖZDEMİR M., Köksoy B., Ceyhan D., SAYIN K., Erçağ E., Bulut M., YALÇIN B.
Journal of Biomolecular Structure and Dynamics, vol.40, no.11, pp.4905-4920, 2022 (SCI-Expanded)
- XXIII. **Anti-corrosion behavior of 2-((3-(2-morpholino ethylamino)-N3-((pyridine-2-yl)methyl)propylimino)methyl)pyridine and its reduced form on Carbon Steel in Hydrochloric Acid solution: Experimental and theoretical studies**
Rezaeivala M., Karimi S., TÜZÜN B., SAYIN K.
THIN SOLID FILMS, vol.741, 2022 (SCI-Expanded)
- XXIV. **New anti-viral drugs for the treatment of COVID-19 instead of favipiravir**
Aktaş A., Tüzün B., Aslan R., Sayın K., Ataseven H.
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, vol.39, no.18, pp.7263-7273, 2021 (SCI-Expanded)
- XXV. **Synthesis and competitive Li-7 NMR studies of two morpholine-based ligands**
Rezaeivala M., Zebarjadian M. H., SAYIN K.
JOURNAL OF MOLECULAR STRUCTURE, vol.1242, 2021 (SCI-Expanded)
- XXVI. **Experimental and in silico studies of dichloro-tetrakis (1H-pyrazole)-cobalt(II): Structural description, photoluminescent behavior and molecular docking**
Direm A., El Bali B., SAYIN K., Abdelbakyd M. S. M., Garcia-Granda S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1235, 2021 (SCI-Expanded)
- XXVII. **Experimental and theoretical investigation of inhibition behavior of 2-((4-(dimethylamino)benzylidene)amino)benzenethiol for carbon steel in HCl solution**
KELEŞ H., KELEŞ M., SAYIN K.
CORROSION SCIENCE, vol.184, 2021 (SCI-Expanded)
- XXVIII. **Investigations of structural, spectral (IR, H-1-, F-9-, B-11-, C-13-, (15) N-, O-17-NMR) and anticancer properties of 5FU@B12N12 complexes**
AKTAŞ A., Nassif W., SAYIN K.
CHEMICAL PAPERS, vol.75, no.4, pp.1727-1737, 2021 (SCI-Expanded)
- XXIX. **Experimental and Computational Investigation for (E)-2-hydroxy-5-(2-benzylidene) Aminobenzoic Acid Schiff Base as a Corrosion Inhibitor for Copper in Acidic Media**
KILINÇEKER G., Bas M., Zarifi F., SAYIN K.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.45, no.2, pp.515-527, 2021 (SCI-Expanded)
- XXX. **Investigations substituent effect on structural, spectral and optical properties of phenylboronic acids**
Çöpçü B., SAYIN K., KARAKAŞ D.
Journal of Molecular Structure, vol.1227, 2021 (SCI-Expanded)
- XXXI. **Experimental and computational studies of di-mu-chlorido-bis[chlorido(1,10-phenanthroline-(KN)-N-2,N ')nickel(II)] NiCl₂(H₂O)(C₁₂N₂H₈): Crystal structure, quantitative analysis of the intermolecular interactions and electronic properties**
El Bali B., Lachkar M., Direm A., Cetiner E., SAYIN K., Dusek M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1227, 2021 (SCI-Expanded)
- XXXII. **The highly protective natural medical agents against COVID-19**
Gokalp F., Sayin K.
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.122, no.9, pp.631-635, 2021 (SCI-Expanded)

- XXXIII. **Are clarithromycin, azithromycin and their analogues effective in the treatment of COVID19**
Gedikli M. A., Tuzun B., Aktas A., Sayin K., Ataseven H.
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.122, no.2, pp.101-110, 2021 (SCI-Expanded)
- XXXIV. **Scale factor database for the vibration frequencies calculated in M06-2X, one of the DFT methods**
ÜNAL Y., Nassif W., Özaydin B. C., SAYIN K.
Vibrational Spectroscopy, vol.112, 2021 (SCI-Expanded)
- XXXV. **Could Peganum harmala be effective in the treatment of COVID-19?**
Tuzun B., Nasibova T., Garaev E., Sayin K., ATASEVEN H.
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.122, no.9, pp.670-679, 2021 (SCI-Expanded)
- XXXVI. **Determination of inhibitor activity of drugs against the COVID-19**
Gedikli M. A., Tuzun B., Sayin K., ATASEVEN H.
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.122, no.7, pp.497-506, 2021 (SCI-Expanded)
- XXXVII. **Could boron compounds be effective against SARS-CoV-2?**
ATASEVEN H., SAYIN K., TÜZÜN B., GEDİKLİ M. A.
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.122, no.10, pp.753-758, 2021 (SCI-Expanded)
- XXXVIII. **Could boron-containing compounds (BCCs) be effective against SARS-CoV-2 as anti-viral agent?**
Cetiner E., Sayin K., Tuzun B., ATASEVEN H.
BRATISLAVA MEDICAL JOURNAL-BRATISLAVSKE LEKARSKE LISTY, vol.122, no.4, pp.263-269, 2021 (SCI-Expanded)
- XXXIX. **Experimental and computational investigation of variamine blue as an inhibitor for copper in chloride solution**
KILINÇÇEKER G., ÇELİK S., Zarifi F., SAYIN K.
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, 2020 (SCI-Expanded)
- XL. **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)
- XLI. **Evaluation of structural, spectral characterization and in vitro cytotoxic activity studies of some polycyclic aromatic compounds**
Rezaeivala M., SAYIN K., Şahin-Bölükbaşı S., Tandoğan D., Kose M., Kose A.
ARABIAN JOURNAL OF CHEMISTRY, vol.13, no.6, pp.5593-5604, 2020 (SCI-Expanded)
- XLII. **Crystal structure, Hirshfeld surface analysis and theoretical calculations of an oxalato-bridged copper(II) complex: mu-oxalato-bis[(2,2'-bipyridine) hydrate copper(II) nitrate]**
Boutobba Z., Direm A., SAYIN K., El Bali B., Lachkar M., Benali-Cherif N.
JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.17, no.3, pp.671-685, 2020 (SCI-Expanded)
- XLIII. **Water mediated synthesis of 6-amino-5-cyano-2-oxo-N-(pyridin-2-yl)-4-(p-tolyl)-2H-[1,2'-bipyridine]-3-carboxamide and 6-amino-5-cyano-4-(4-fluorophenyl)-2-oxo-N-(pyridin-2-yl)-2H-[1,2'-bipyridine]-3-carboxamide - An experimental and computational studies with non-linear optical (NLO) and molecular docking analyses**
Jayarajan R., Satheeshkumar R., Kottha T., Subbaramanian S., SAYIN K., Vasuki G.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.229, 2020 (SCI-Expanded)
- XLIV. **Pt-Ni@PC900 Hybrid Derived from Layered-Structure Cd-MOF for Fuel Cell ORR Activity**
Nadeem M., Yasin G., Arif M., Bhatti M. H., SAYIN K., Mehmood M., Yunus U., Mehboob S., Ahmed I., Floerke U.
ACS OMEGA, vol.5, no.5, pp.2123-2132, 2020 (SCI-Expanded)
- XLV. **How do arbidol and its analogs inhibit the SARS-CoV-2?**
Aktas A., Tuzun B., Kafa T. A. H., Sayin K., Ataseven H.

Bratislavske lekarske listy, vol.121, no.10, pp.705-711, 2020 (SCI-Expanded)

- XLVI. **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 (SCI-Expanded)
- XLVII. **Quantum chemical calculations on sparfloxacin and boron complexes**
ÜNGÖRDÜ A., SAYIN K.
CHEMICAL PHYSICS LETTERS, vol.733, 2019 (SCI-Expanded)
- XLVIII. **Synthesis of novel 1,10-phenanthroline derivatives and it used as probes for sensitive detection of Zn²⁺ and Cd²⁺ metal ions - Spectroscopic and theoretical approach**
Satheeshkumar R., Rajamanikandan R., Ilanchelian M., Sayin K., Prasad K. J. R.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.221, 2019 (SCI-Expanded)
- XLIX. **Investigations of structural, spectral and electronic properties of enrofloxacin and boron complexes via quantumchemical calculation and molecular docking**
SAYIN K., ÜNGÖRDÜ A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.220, 2019 (SCI-Expanded)
- L. **Research of the substituent effect on non-linear optical properties of bis (difluoroboron)-1,2-bis((1H-pyrrol-2-yl)methylene)hydrazine (BOPHY) derivatives: Molecular simulation analyses**
SAYIN K.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.212, pp.380-387, 2019 (SCI-Expanded)
- LI. **The Different Effects of Metal Ions on the Synthesis of Macroacyclic Compounds: X-ray Crystal Structure, Theoretical Studies, Antibacterial and Antifungal Activities**
Rezaeiya M., Golbedaghi R., Khalili M., Ahmad M., Sayin K., Chalabian F.
RUSSIAN JOURNAL OF COORDINATION CHEMISTRY, vol.45, no.2, pp.142-153, 2019 (SCI-Expanded)
- LII. **Investigations over optical properties of boron complexes of benzothiazolines**
TÜZÜN B., SAYIN K.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.208, pp.48-56, 2019 (SCI-Expanded)
- LIII. **New diazo-containing phenolic oximes: structural characterization, computational studies, and solvent extraction of Cu(II), Ni(II), and Zn(II) ions**
KARABÖRK M., Kirpik H., SAYIN K., KÖSE M.
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.1, pp.197-212, 2019 (SCI-Expanded)
- LIV. **Investigations of structural, spectral, electronic and biological properties of N-heterocyclic carbene Ag(I) and Pd(II) complexes**
Sayin K., Kariper S. E., Tastan M., Sayin T. A., Karakaş D.
JOURNAL OF MOLECULAR STRUCTURE, vol.1176, pp.478-487, 2019 (SCI-Expanded)
- LV. **Investigation of structural and biological properties of N-heterocyclic carbene silver(I) and palladium(II) complexes**
SAYIN K.
JOURNAL OF COORDINATION CHEMISTRY, vol.71, no.20, pp.3292-3303, 2018 (SCI-Expanded)
- LVI. **Crystal structure, thermal, luminescent and terahertz time domain spectroscopy of magnesium N-phthaloyl-beta-alaninate: A combined experimental and theoretical study**
Nadeem M., Bhatti M. H., SAYIN K., Yunus U., Mehmood M., Mehboob S., Floerke U.
JOURNAL OF MOLECULAR STRUCTURE, vol.1170, pp.1-8, 2018 (SCI-Expanded)
- LVII. **Investigation of structural, electronic properties and docking calculations of some boron complexes with norfloxacin: A computational research**
SAYIN K., KARAKAŞ D.

- SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.202, pp.276-283, 2018 (SCI-Expanded)
- LVIII. **Half-sandwich Ruthenium(II) arene complexes bearing the azo-azomethine ligands: Electrochemical, computational, antiproliferative and antioxidant properties**
Inan A., Sunbul A. B., İkiz M., Tayhan S. E., BİLGİN S., Elmastas M., SAYIN K., CEYHAN G., KÖSE M., İSPİR E.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.870, pp.76-89, 2018 (SCI-Expanded)
- LIX. **Sev and pcu topological nets in one-pot newly synthesized mixed-ligand imidazole-containing Cu(II) coordination frameworks: Crystal structure, intermolecular interactions, theoretical calculations, magnetic behavior and biological activity**
Direm A., Abdelbaky M. S. M., SAYIN K., Cornia A., Abosede O., Garcia-Granda S.
INORGANICA CHIMICA ACTA, vol.478, pp.59-70, 2018 (SCI-Expanded)
- LX. **Quantum chemical investigation of levofloxacin-boron complexes: A computational approach**
SAYIN K., KARAKAŞ D.
JOURNAL OF MOLECULAR STRUCTURE, vol.1158, pp.57-65, 2018 (SCI-Expanded)
- LXI. **Unsymmetrical tripodal amines containing one pyridine-armed with N3O2-donor set: Coordination chemistry with zinc(II) and theoretical studies**
Keypour H., Shayesteh M., Rezaeivala M., Dhers S., SAYIN K.
INORGANICA CHIMICA ACTA, vol.473, pp.94-101, 2018 (SCI-Expanded)
- LXII. **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)
- LXIII. **Investigation of anticancer properties of caffeinated complexes via computational chemistry methods**
SAYIN K., ÜNGÖRDÜ A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.193, pp.147-155, 2018 (SCI-Expanded)
- LXIV. **Antiproliferative, antioxidant, computational and electrochemical studies of new azo-containing Schiff base ruthenium(II) complexes**
Inan A., İkiz M., Tayhan S. E., BİLGİN S., GENÇ N., SAYIN K., CEYHAN G., KÖSE M., Dag A., İSPİR E.
NEW JOURNAL OF CHEMISTRY, vol.42, no.4, pp.2952-2963, 2018 (SCI-Expanded)
- LXV. **Computational investigations of trans platinum(II) oxime complexes used as anticancer drug**
SAYIN K., KARAKAŞ D.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.188, pp.537-546, 2018 (SCI-Expanded)
- LXVI. **Synthesis, spectroscopic, in vitro cytotoxicity and crystal structures of novel fluorinated dispiroheterocycles: DFT approach**
Satheeshkumar R., SAYIN K., Kaminsky W., Prasad K. J. R.
MONATSHEFTE FÜR CHEMIE, vol.149, no.1, pp.141-147, 2018 (SCI-Expanded)
- LXVII. **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)
- LXVIII. **Investigation of Structural, Electronic and Biological Properties of Two Zn(II) Complexes with Pentaaza Macrocyclic Schiff-Base Ligand: A DFT Approach**
SAYIN K., KARAKAŞ D.
JOURNAL OF CLUSTER SCIENCE, vol.28, no.6, pp.3075-3086, 2017 (SCI-Expanded)
- LXIX. **Determination of structural, spectral, electronic and biological properties of tosufloxacin boron complexes and investigation of substituent effect**
SAYIN K., KARAKAŞ D.
JOURNAL OF MOLECULAR STRUCTURE, vol.1146, pp.191-197, 2017 (SCI-Expanded)
- LXX. **New fluorescent azo-Schiff base Cu(II) and Zn(II) metal chelates; spectral, structural,**

electrochemical, photoluminescence and computational studies

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Publication: 192

Citation (WoS): 855

Citation (Scopus): 934

H-Index (WoS): 18

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Non Academic Experience

Başergün Boya ve Kimya Sanayi A.Ş.