

## Prof. AHMET KARADAĞ



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### International Researcher IDs

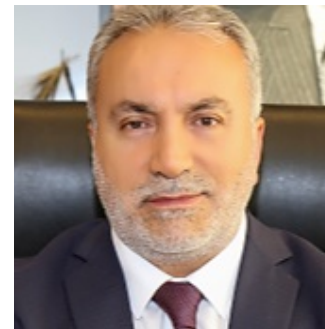
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### Education Information

Doctorate, Ondokuz Mayıs University, Fen Fakültesi, Kimya Bölümü, Turkey 1996 - 2001

Postgraduate, Ondokuz Mayıs University, Fen Fakültesi, Kimya Bölümü, Turkey 1991 - 1994

Undergraduate, Selcuk University, Eğitim Fakültesi, Kimya, Turkey 1986 - 1990

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Professor, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Kimya, 2019 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Synthesis, Enzyme Inhibition, and in Silico Studies of Amino Acid Schiff Bases**  
Akkuş Taş N., Şenocak A., Taslimi P., TÜZÜN B., KARADAĞ A.  
Iranian Journal of Chemistry and Chemical Engineering, vol.43, no.3, pp.1083-1093, 2024 (SCI-Expanded)
- II. **Synthesis of CeO<sub>2</sub> nanoparticles from hemp leaf Extract: Evaluation of Antibacterial, anticancer and enzymatic activities**  
KORKMAZ N., Kısa D., Ceylan Y., GÜÇLÜ E., Şen F., KARADAĞ A.  
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- III. **Eco-friendly biogenic silver nanoparticles: synthesis, characterization and biological applications**  
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- IV. **Rapid ultrasound-assisted synthesis, characterization, DFT, molecular docking, and anticancer activity of palladium and zinc complexes with 2,6-dimethoxybenzoic acid: A comprehensive study**  
Shihab I. A., Muhammed M. Y., Alheety M. A., Nuaman H. A., KARADAĞ A.  
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- V. **A Silver Compound with Potential Applications as an Anticancer, Antibacterial, Antifungal, and Anti-Alzheimer's Agent**  
KORKMAZ N., Kisa D., Kaplan Ö., Tosun N. G., Özgür A., Imamoğlu R., KARADAĞ A.  
Chemistry and Biodiversity, vol.20, no.6, 2023 (SCI-Expanded)
- VI. **A cheap and high yield route for synthesis of 3H-1, 2-benzodithiol-3-thione for hydrogen storage applications**  
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- VII. **Dicyanoargentate(I)-based complexes induced in vivo tumor inhibition by activating apoptosis-related pathways**  
AYDIN A., KORKMAZ N., Kisa D., TÜRKMEÑOĞLU B., KARADAĞ A.  
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- VIII. **Synthesis, structural, and electrochemical properties of boron-based ionic liquid**  
Bilgiç G., KORKMAZ N., ŞAHİN M., KARADAĞ A.  
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- IX. **Biogenic Nanocopper: Eco-Friendly Synthesis, Characterization, and Their Anti-Trichomonas vaginalis, Anticancer, and Antimicrobial Effects**  
Duran B., Perçin E., Aydin A., Destegül A., AYDIN D., Özplnar N., KARADAĞ A.  
Journal of Medicinal Food, vol.25, no.7, pp.787-792, 2022 (SCI-Expanded)
- X. **Novel amino acid Schiff base Zn(II) complexes as new therapeutic approaches in diabetes and Alzheimer's disease: Synthesis, characterization, biological evaluation, and molecular docking studies**  
ŞENOCAK A., Tas N. A., Taslimi P., TÜZÜN B., AYDIN A., KARADAĞ A.  
JOURNAL OF BIOCHEMICAL AND MOLECULAR TOXICOLOGY, vol.36, no.3, 2022 (SCI-Expanded)
- XI. **Investigation of biological activities of plant extract and green synthesis silver nanoparticles obtained from Gilaburu (Viburnum opulus L.) fruits**  
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- XII. **Mercury(II) mixed ligand complexes of phosphines or amines with 2-cyanoamino thiophenolate ligands formed via monodeprotonation and carbon-sulfur bond cleavage of 2-aminobenzothiazole. X-ray crystal structures of [Hg(SC<sub>6</sub>H<sub>4</sub>NCN)(PPh<sub>3</sub>)<sub>2</sub>] and [Hg(SC<sub>6</sub>H<sub>4</sub>NCN)(Ph<sub>2</sub>PCH<sub>2</sub>PPh<sub>2</sub>)](2)**  
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- XIII. **Synthesis of silver nanowires in a two-phase system for biological applications**  
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- XIV. **Efficient biomass saccharification using a novel cellobiohydrolase from Clostridium clariflavum for utilization in biofuel industry**  
Zafar A., Aftab M. N., Asif A., KARADAĞ A., Peng L., Celebioglu H. U., Afzal M. S., Hamid A., Iqbal I.  
RSC ADVANCES, vol.11, no.16, pp.9246-9261, 2021 (SCI-Expanded)
- XV. **Hydrogen storage capacity of novel mixed ligand complexes of lead(II): Molecular structure of [Pb-2(tsac)(4)(mu-dppe)]**  
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- XVI. **Charge carrier performance of phosphazene-based ionic liquids doped hole transport layer in organic light-emitting diodes**  
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- XVII. **Biogenic silver nanoparticles synthesized via Mimusops elengi fruit extract, a study on antibiofilm, antibacterial, and anticancer activities**  
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- XVIII. **Bioactivity and molecular docking studies of some nickel complexes: New analogues for the treatment of Alzheimer, glaucoma and epileptic diseases**  
KISA D., KORKMAZ N., Taslimi P., TÜZÜN B., Tekin S., KARADAĞ A., ŞEN F.  
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- XIX. **Biogenic nano silver: Synthesis, characterization, antibacterial, antibiofilms, and enzymatic activity**  
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ADVANCED POWDER TECHNOLOGY, vol.31, no.7, pp.2942-2950, 2020 (SCI-Expanded)
- XX. **RETRACTED ARTICLE: Synthesis and characterization of trimeric phosphazene based ionic liquids with tetrafluoroborate anions and their thermal investigations**  
KARADAĞ A., AKBAŞ H., Destegul A., Cakirlar C., YERLİ Y., KILIÇ Z., ŞEN F.  
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- XXI. **Metallo components exhibiting significant anticancer and antibacterial properties: a novel sandwich-type like polymeric structure**  
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- XXII. **Synthesis, characterization and anticancer activity in vitro evaluation of novel dicyanoaurate (I)-based complexes**  
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- XXIII. **Novel Hg(II) and Pd(II) benzotriazole (Hbta) complexes: Synthesis, characterization, X-ray crystal structure of [Pd(PPh<sub>3</sub>)(μ-bta)Cl]<sub>2</sub> center dot DMSO and thermodynamic study of their H-2 storage**  
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- XXIV. **Biogenic silver nanoparticles synthesized from Rhododendron ponticum and their antibacterial, antibiofilm and cytotoxic activities**  
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- XXV. **EVALUATION OF ANTIFUNGAL ACTIVITIES OF NEWLY SYNTHESIZED BIMETALLIC CYANIDO COMPLEXES UNDER LABORATORY CONDITIONS**  
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- XXVI. **Ag(I)-benzisothiazolinone complex: synthesis, characterization, H-2 storage ability, nano transformation to different Ag nanostructures and Ag nanoflakes antimicrobial activity**  
Alheety M. A., Al-Jibori S. A., Ali A. H., Mahmood A. R., AKBAŞ H., KARADAĞ A., Uzun O., Ahmed M. H.  
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- XXVII. **Biosynthesis of Ag nanospheres using waste phoenix dactylifera argonne: a prospective anticancer and antibacterial**  
Salih B. D., Ali A. H., Alheety M. A., Mahmood A. R., KARADAĞ A., AYDIN A.  
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- XXVIII. **Synthesis, characterization and anti-tumor activity of Pd(II) complexes with 4,5-benzo-3H-1,2-dithiole-3-thione**  
Al-Jibori S. A., Ulghafoor M. A., Karadag A., AYDIN A., Akbas H., Ruiz S. G.  
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- XXIX. **H-2 storage abilities of some novel Pd(II) complexes containing 2H[1,4]benzothiazin-3(4H)-one**  
Hameed A. A., Alheety M. A., Mahmood A. R., Al-Jibori S. A., KARADAĞ A.  
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- XXX. **The mixture of silver nanosquare and silver nano-hexagon: green synthesis, characterization and kinetic evolution**  
Jasemi L. A., Hameedi A. A., Al-Heety M. A., Mahmood A. R., KARADAĞ A., Akbas H.

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- XXXI. **Synthesis and structural and thermal properties of cyclotriphosphazene-based ionic liquids: tribological behavior and OFET application**  
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- XXXII. **Eco-friendly C-60-SESMP-Fe3O4 inorganic magnetizable nanocomposite as high-performance adsorbent for magnetic removal of arsenic from crude oil and water samples**  
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- XXXIII. **Hydrogen storage capacities of some new Hg(II) complexes containing 2-acetyethiophene**  
Salih B. D., Alheety M. A., Mahmood A. R., KARADAĞ A., Hashim D. J.  
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- XXXIV. **Pharmacological properties of dicyanidoaurate(I)-based complexes: characterization and single crystal X-ray analysis**  
KARADAĞ A., AYDIN A., Tekin S., Akbas H., DEDE S.  
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- XXXV. **Three new dicyanidoaurate(I)-based complexes exhibiting significant antiproliferative property: synthesis and characterization**  
AYDIN A., Karadag A., Tekin S., Akbas H.  
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- XXXVI. **Synthesis, and spectroscopic, thermal and dielectric properties of phosphazene based ionic liquids: OFET application and tribological behavior**  
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- XXXVII. **Tribological behavior and quantum chemical calculations of protic ionic liquids: synthesis, spectroscopic, and thermal properties**  
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- XXXVIII. **In vitro biological properties and predicted DNA-BSA interaction of three new dicyanidoargentate(I)-based complexes: synthesis and characterization**  
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- XXXIX. **Antiproliferative Effects against A549, Hep3B and FL Cell Lines of Cyclotriphosphazene-Based Novel Protic Molten Salts: Spectroscopic, Crystallographic and Thermal Results**  
Okumus A., Akbas H., KARADAĞ A., AYDIN A., Kilic Z., HÖKELEK T.  
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- XL. **Synthesis, structural and thermal properties of the hexapyrrolidinocyclotriphosphazenes-based protic molten salts: Antiproliferative effects against HT29, HeLa, and C6 cancer cell lines**  
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- XLI. **New bimetallic dicyanidoargentate(I)-based coordination compounds: Synthesis, characterization, biological activities and DNA-BSA binding affinities**  
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- XLII. **Binuclear cyanido complexes containing [Pt(CN)(4)](2-) building block: Synthesis, crystal structures, magnetic properties and anticancer activities**  
Korkmaz S. A., KARADAĞ A., AYDIN A., Yerli Y., Soylu M. S.  
INORGANICA CHIMICA ACTA, vol.453, pp.154-168, 2016 (SCI-Expanded)
- XLIII. **Phosphorus-nitrogen compounds Part 32. Structural and thermal characterizations, antimicrobial and cytotoxic activities, and in vitro DNA binding of the phosphazanium salts**

- Akbas H., Okumus A., KARADAĞ A., Kilic Z., HÖKELEK T., Koc L. Y., AÇIK L., AYDIN B., Turk M.  
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- XLIV. **Palladium(II) benzoisothiazolate (bit) complexes with amino-, acetylamino-, heterocyclic and phosphine co-ligands. Crystal structure of [Pd(bit)(2)(kappa(2)-dppe)]center dot 2EtOH**  
 Al-Jibori S. A., Ahmed B. S. M., Ahmed S. A., KARADAĞ A., Schmidt H., Wagner C., Hogarth G.  
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- XLV. **BIS(N,N '-BIS(2-HYDROXYETHYL)ETHYLENEDIAMINE)NICKEL(II) SACCHARINATE: SYNTHESIS, CHARACTERIZATION AND CRYSTAL STRUCTURE**  
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- XLVI. **Five novel dicyanidoaurate(I)-based complexes exhibiting significant biological activities: synthesis, characterization and three crystal structures**  
 KARADAĞ A., AYDIN A., Dede S., Tekin S., Yanar Y., Cadirci B. H., Soylu M. S., Andac O.  
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- XLVIII. **Two novel cyanido-bridged polymeric complexes with suspension bridge type connections and a series of related complex salts: crystallographic and thermal characterizations**  
 Senocak A., KARADAĞ A., Soylu M. S., Andac O.  
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- XLIX. **Synthesis and characterization of two novel dicyanidoargentate(I) complexes containing N-(2-hydroxyethyl)ethylenediamine exhibiting significant biological activity**  
 Korkmaz N., KARADAĞ A., AYDIN A., Yanar Y., Karamand I., Tekin S.  
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- L. **Coordination versatility of 2,2'-(ethylenedioxy)bis(ethylamine) in new mono- and polynuclear metal(II) complexes of saccharinate: Synthesis, characterization and crystal structures**  
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- LII. **Anticancer activities and mechanism of action of 2 novel metal complexes, C16H34N8O5Ag2Cd and C11H16N7O2Ag3Ni**  
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- LIII. **Synthesis and Structural Studies of Pd-II/Zn-II Architecture with N,N '-Bis(2-hydroxyethyl)ethylenediamine as Capping Ligand**  
 Senocak A., KARADAĞ A., ŞAHİN E.  
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- LV. **N-(2-hydroxyethyl)-ethylenediamine-based ionic liquids: Synthesis, structural characterization,**

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- LVI. **Synthesis, Crystal Structure and Thermal Properties of N-Acetyl-3-(2-furyl)-5-ferrocenyl-2-pyrazoline and N-Acetyl-3-(2-thienyl)-5-ferrocenyl-2-pyrazoline**  
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- LVIII. **Cyano-complexes and salts with tetracyanonickellate(II) and N,N-bis(2-hydroxyethyl)-ethylenediamine: synthesis, IR spectra, magnetic properties, thermal analyses, and crystal structures**  
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- LIX. **Synthesis and Characterization of New Metal-Organic Frameworks Based on Tetracyanoplatinate(II) and N,N'-bis(2-hydroxyethyl)ethylenediamine: Single Crystal Structures of Zn-II and Cd-II Complexes Along with Magnetic Properties of Ni-II and Cu-II Complexes**  
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- LXI. **Synthesis, thermal energy storage properties and thermal reliability of some fatty acid esters with glycerol as novel solid-liquid phase change materials**  
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- LXII. **Polymeric and monomeric dipicolinate complexes with 4-hydroxymethyl pyridine: spectral, structural, thermal and electrochemical characterization**  
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- LXIII. **Preparation, structural, magnetic and thermal properties of two heterobimetallic cyano-bridged nickel(II)-copper(II)/platinum(II) coordination polymers**  
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- LXIV. **EPR and optical absorption studies of Cu<sup>2+</sup> ions in [ZnPd(CN)<sub>4</sub>(C<sub>4</sub>H<sub>12</sub>N<sub>2</sub>O<sub>2</sub>)] single crystals**  
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Karadag A., Oenal I., Senocak A., Ucar I., Bulut A., Bueyukguengoer O.  
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- LXVII. **Preparation, spectra and thermal properties of two novel cyano-bridged complexes: crystal**

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**Pd CN 4 on cell growth**

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