

Prof. Ender Biçer

Personal Information

Office Phone: [+90 362 312 1919](tel:+903623121919) Extension: 5459

Email: ebicer@omu.edu.tr

Web: <https://avesis.omu.edu.tr/ebicer>

International Researcher IDs

ORCID: 0000-0001-5501-5160

Yoksis Researcher ID: 6601

Education Information

Doctorate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1995 - 2000

Postgraduate, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 1991 - 1994

Undergraduate, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, Turkey 1987 - 1991

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bazı amino asitlerin sakkarin, glukoz, galaktoz, fruktoz ve folik asit ile Cu(II) ve Cd(II) iyonları varlığında oluşturduğu tek ve karışık ligant komplekslerinin voltametrik davranışları, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2000

Postgraduate, Fenazopiridin hidroklorür (piridium)'xxün polarografik, voltametrik ve kulometrik davranışlarının incelenmesi, Ondokuz Mayıs University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1994

Research Areas

Chemistry

Academic Titles / Tasks

Professor, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2008 - Continues

Associate Professor, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2004 - 2008

Assistant Professor, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2000 - 2004

Research Assistant, Ondokuz Mayıs University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1998 - 2000

Research Assistant, Ondokuz Mayıs University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 1993 - 1998

Academic and Administrative Experience

Ondokuz Mayıs University, 2010 - Continues

Courses

ADSORPSİYON VE UYGULAMALARI, Postgraduate, 2013 - 2014

FİZİKOKİMYA II B, Undergraduate, 2013 - 2014

FİZİKOKİMYA LAB. II B, Undergraduate, 2013 - 2014

İLERİ ELEKTROKİMYA, Postgraduate, 2013 - 2014

FİZİKOKİMYA LAB. I B, Undergraduate, 2013 - 2014

FİZİKOKİMYA I B, Undergraduate, 2013 - 2014

KATIHAL KİMYASINA GİRİŞ, Undergraduate, 2013 - 2014

VOLTAMETRİK TEKNİKLER, Doctorate, 2013 - 2014

YÜZEY KİMYASI, Undergraduate, 2013 - 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Voltammetric Study of the Complexation of Propafenone Hydrochloride (Rythmol SR) with Co²⁺, Ni²⁺, Zn²⁺, and Mn²⁺ Ions**
Billy T. A., Biçer E.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.59, no.10, pp.797-808, 2023 (SCI-Expanded)
- II. **Polarographic and Voltammetric Investigation of Heterocyclic Monoazo Compounds Azodicarboxylic Dimorpholide and 1,1'-Azodicarbonyl Dipiperidine**
TANJU N. Ö., Biçer E.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.59, no.1, pp.79-91, 2023 (SCI-Expanded)
- III. **Voltammetric and Spectroscopic Evaluation of the Interactions of (E)-1-((4-phenoxyphenylimino)methyl)naphthalen-2-ol with Bovine and Human Serum Albumins at Physiological pH**
Biçer E., TANJU N. Ö., Macit M.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.58, no.9, pp.835-843, 2022 (SCI-Expanded)
- IV. **Green synthesis, characterisation of Au and Ag nanoparticles by various bioextracts and their usability at graphite electrode modification**
Yilmaz Arslan E., Biçer E., Sekmen E., Cakir S.
TURKISH JOURNAL OF CHEMISTRY, vol.46, no.4, pp.1253-1268, 2022 (SCI-Expanded)
- V. **Combined computational and experimental studies on cysteine-sulfadiazine adduct formation**
AÇAR SELÇUKİ N., Coskun E., Biçer E.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.2, pp.502-528, 2020 (SCI-Expanded)
- VI. **Synthesis, Characterization, in vitro Antifungal Activities and Calf Thymus DNA Interactions of Two Different Hydroxy Benzaldehyde Derivative Schiff Bases from Sulfamethizole: Electrochemical, Spectroscopic and Biological Study**
Biçer E., PEHLİVAN V., Genç Bekiroğlu Y.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.55, no.5, pp.419-428, 2019 (SCI-Expanded)
- VII. **WITHDRAWN: "Electrochemical and Spectroscopic Studies on the Interaction Modes of Calf Thymus DNA with Antibacterial Schiff Bases obtained from Substituted Salicylaldehydes and Sulfamethizole" [Int. J. Electrochem. Sci., 13(2018) 10700-10717]**
PEHLİVAN V., Biçer E., Genç Bekiroğlu Y., DEGE N.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, vol.14, no.1, pp.1092, 2019 (SCI-Expanded)
- VIII. **Electrochemical and Spectroscopic Studies on the Interaction Modes of Calf Thymus DNA with Antibacterial Schiff Bases obtained from Substituted Salicylaldehydes and Sulfamethizole**
PEHLİVAN V., Biçer E., Genç Bekiroğlu Y., DEGE N.

INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, vol.13, no.11, pp.10700-10717, 2018 (SCI-Expanded)

- IX. **Electrochemical, Spectroscopic and Computational Studies on Complexation of Oxacillin with Cu(II) and Co(II) ions. Synthesis and Ligand Hydrolysis**
Coskun E., Duman E., AÇAR SELÇUKİ N., Biçer E.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, vol.12, no.10, pp.9364-9377, 2017 (SCI-Expanded)
- X. **Voltammetric, Spectroscopic and Thermal Investigations of the Interaction of Levofloxacin with Cysteine at Physiological pH**
Biçer E., Nuertayi P.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.53, no.5, pp.469-478, 2017 (SCI-Expanded)
- XI. **Synthesis, characterization and crystal structure of a novel decavanadate salt, [V_{0.50}(H₂O)₅]₂[H₂(V₁₀O₂₈)]·4(H₂O)**
Biçer E., DEGE N., Coşkun E.
Journal of the Chilean Chemical Society, vol.62, no.3, pp.3610-3614, 2017 (SCI-Expanded)
- XII. **SYNTHESIS, CHARACTERIZATION AND CRYSTAL STRUCTURE OF A NOVEL DECAVANADATE SALT, [V_{0.50}(H₂O)₅]₂[H₂(V₁₀O₂₈)]center dot 4(H₂O)**
Biçer E., DEGE N., Coskun E.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.62, no.3, pp.3610-3614, 2017 (SCI-Expanded)
- XIII. **TEMPERATURE EFFECT ON BINDING AFFINITY AND STOICHIOMETRY BETWEEN SOME STEROIDS AND HUMAN SERUM ALBUMIN**
Ozdemir S., Biçer E.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.61, no.1, pp.2809-2815, 2016 (SCI-Expanded)
- XIV. **An electrochemical study on interaction of copper ions with three isomers, picolinic, nicotinic and isonicotinic acids at physiological pH**
Biçer E., Tatlıdil D.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.52, no.1, pp.17-26, 2016 (SCI-Expanded)
- XV. **Electrochemical and Spectral Studies of the Interaction of Niflumic Acid with Metavanadate (VO₃-) Ions**
Coskun E., Biçer E., Bulut I.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, vol.10, no.11, pp.9216-9231, 2015 (SCI-Expanded)
- XVI. **Electrochemical Monitoring of Decolorization of Diazo Dye Evans Blue by Fenton Process under Anaerobic Conditions: Kinetics and Optimization**
Arat C., Biçer E.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.51, no.8, pp.730-742, 2015 (SCI-Expanded)
- XVII. **Electrochemical Reduction of Isatin-mono-hydrazone on Mercury Electrode**
ÇAKIR S., Biçer E., ARSLAN KARAHAN E.
CROATICA CHEMICA ACTA, vol.88, no.2, pp.97-103, 2015 (SCI-Expanded)
- XVIII. **A Newly Developed Electrocatalytic Oxidation and Voltammetric Determination of Curcumin at the Surface of Pd/NP-graphite Electrode by an Aqueous Solution Process with Al³⁺**
ÇAKIR S., Biçer E., Arslan E. Y.
CROATICA CHEMICA ACTA, vol.88, no.2, pp.105-112, 2015 (SCI-Expanded)
- XIX. **Investigation of the interaction of resveratrol with free radical diphenylpicrylhydrazyl at different pHs by cyclic voltammetry: Correlation between antioxidant activity and association complex constant**
Biçer E., Özdemir S., Güder A., Korkmaz H.
Russian Journal of Electrochemistry, vol.50, no.12, pp.1170-1176, 2014 (SCI-Expanded)
- XX. **Interaction thermodynamics of rutin (vitamin P) with basic L-amino acids at physiological pH: the effect of temperature on the affinity order**
Biçer E., Ozdemir S.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.50, no.11, pp.1058-1064, 2014 (SCI-Expanded)
- XXI. **Electrochemical and spectroscopic characterization of interaction between antimalarial drug cinchonine and human serum albumin at physiological pH**

- Biçer E., Ozdemir N.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.50, no.6, pp.587-593, 2014 (SCI-Expanded)
- XXII. **Voltammetric and spectroscopic analysis of interactions of pyridine mono-carboxylic acid isomers with cysteine at physiological pH**
Biçer E., Tatlıdıl D.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.50, no.5, pp.444-452, 2014 (SCI-Expanded)
- XXIII. **In vitro study of the interaction of cysteine with a thiazide diuretic (hydrochlorothiazide) at different pH by voltammetric and spectroscopic techniques**
Biçer E., Ozdemir N.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.49, no.10, pp.948-954, 2013 (SCI-Expanded)
- XXIV. **Anaerobic Hydrolytic Degradation of Cefpodoxime Proxetil in the Presence of UV Irradiation and in Darkness: Kinetics and pH Effect**
Biçer E., Ozdemir N., Ozdemir S.
CROATICA CHEMICA ACTA, vol.86, no.1, pp.49-56, 2013 (SCI-Expanded)
- XXV. **Voltammetric Study on Interaction of Cysteine with Type I-Collagen in the Aqueous Medium**
ÇAKIR S., Biçer E.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.47, no.7, pp.805-810, 2011 (SCI-Expanded)
- XXVI. **Voltammetric and spectroscopic studies on the interaction of tilmicosin with bovine serum albumin at different pHs**
Biçer E., Ozdemir S.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.657, no.1-2, pp.128-134, 2011 (SCI-Expanded)
- XXVII. **Interaction between Janus Green B and bovine serum albumin: Electrochemistry and spectroscopy studies**
Ozdemir N., Ozdemir S., Biçer E.
CHINESE CHEMICAL LETTERS, vol.22, no.6, pp.717-720, 2011 (SCI-Expanded)
- XXVIII. **Voltammetric and spectroscopic studies on the interaction of anti-cancer herbal drug rutin with an anti-tuberculosis agent rifampicin**
Biçer E., Ozdemir S.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.46, no.8, pp.896-903, 2010 (SCI-Expanded)
- XXIX. **SYNTHESIS, SPECTRAL CHARACTERIZATION AND ELECTROCHEMISTRY OF VANADIUM(V) COMPLEX WITH TRYPTOPHAN**
Cakir S., Biçer E.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.55, no.2, pp.236-239, 2010 (SCI-Expanded)
- XXX. **Electrochemical Behaviour of the Antibiotic Drug Novobiocin Sodium on a Mercury Electrode**
Biçer E., Cetinkaya P.
CROATICA CHEMICA ACTA, vol.82, no.3, pp.573-582, 2009 (SCI-Expanded)
- XXXI. **A Voltammetric Study on the Aqueous Electrochemistry of Acid Red 1 (Azophloxine)**
Biçer E., Arat C.
CROATICA CHEMICA ACTA, vol.82, no.3, pp.583-592, 2009 (SCI-Expanded)
- XXXII. **A VOLTAMMETRIC STUDY ON THE INTERACTION OF NOVOBIOCIN WITH CYSTEINE: pH EFFECT**
Biçer E., Cetinkaya P.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.54, no.1, pp.46-50, 2009 (SCI-Expanded)
- XXXIII. **Synthesis, spectroscopic and voltammetric studies of a novel Schiff-base of cysteine and saccharin**
Cakir S., Odabasoglu M., Biçer E., Yazar Z.
JOURNAL OF MOLECULAR STRUCTURE, vol.918, no.1-3, pp.81-87, 2009 (SCI-Expanded)
- XXXIV. **VOLTAMMETRIC BEHAVIOURS OF Zn(II) AND Ni(II) COMPLEXES WITH ACID RED 1 AT MERCURY ELECTRODE**
Biçer E., Arat C.
JOURNAL OF THE CHILEAN CHEMICAL SOCIETY, vol.53, no.4, pp.1734-1739, 2008 (SCI-Expanded)
- XXXV. **Synthesis, structural, spectroscopic, thermal and voltammetric properties of 5,5-diethylbarbiturato complexes of zinc with 2-(2-aminoethyl)pyridine and 2-(2-hydroxyethyl)pyridine**

- YILMAZ F., YILMAZ V. T., Bicer E., Buyukgungor O.
JOURNAL OF COORDINATION CHEMISTRY, vol.60, no.7-9, pp.777-784, 2007 (SCI-Expanded)
- XXXVI. **Voltammetric study of the interaction between oxacillin sodium and cysteine in the presence and absence of Mn(II) ions in neutral buffer solution**
Bicer E., Coskun E.
JOURNAL OF THE SERBIAN CHEMICAL SOCIETY, vol.72, no.10, pp.1003-1013, 2007 (SCI-Expanded)
- XXXVII. **Voltammetric and spectroscopic studies of vanadium(V)-nicotinamide interactions at physiological pH**
Çakir S., Bicer E.
TURKISH JOURNAL OF CHEMISTRY, vol.31, no.2, pp.223-231, 2007 (SCI-Expanded)
- XXXVIII. **Synthesis, spectroscopic and voltammetric studies of a novel dioxovanadate(V) 8-hydroxyquinoline complex**
Çakir S., Biçer E., Naumov P., Çakir O.
Journal of Coordination Chemistry, vol.55, no.12, pp.1461-1471, 2002 (SCI-Expanded)
- XXXIX. **Synthesis, spectroscopic and thermal studies of the copper(II) aspartame chloride complex**
Çakir Ş., Coşkun E., Naumov P., Biçer E., Bulut I., İçbudak H., Çakir O.
Journal of Molecular Structure, vol.608, no.1, pp.101-107, 2002 (SCI-Expanded)
- XL. **Voltammetric and spectroscopic behaviour of the copper adducts of thiol and thioether ligands under aerobic and anaerobic conditions**
Çakir Ş., Biçer E., Coşkun E., Naumov P., Çakir O.
Polish Journal of Chemistry, vol.76, no.5, pp.663-669, 2002 (SCI-Expanded)
- XLI. **Synthesis and spectroscopic studies of the nicotinamide adducts of Cobalt(II), Nickel(II) and Zinc(II) chlorides**
Çakir S., Biçer E., İçbudak H., Naumov P., Korkmaz H., Çakir O.
Polish Journal of Chemistry, vol.75, no.3, pp.371-377, 2001 (SCI-Expanded)
- XLII. **Spectroscopic and polarographic studies of novel imidazole adduct of ammonium trioxovanadate(V). A solution and solid state study**
Çakir S., Biçer E., Naumov P., Çakir O.
Polish Journal of Chemistry, vol.75, no.2, pp.209-214, 2001 (SCI-Expanded)
- XLIII. **Voltammetric and polarographic studies of Eriochrome Black T - nickel(II) complex**
Çakir O., Coşkun E., Biçer E., Çakir S.
Turkish Journal of Chemistry, vol.25, no.1, pp.33-38, 2001 (SCI-Expanded)
- XLIV. **Synthesis, spectroscopic and voltammetric studies of mixed-ligand copper(II) complexes of amino acids**
Çakir S., Biçer E., Eleman A.
Transition Metal Chemistry, vol.26, no.1-2, pp.89-95, 2001 (SCI-Expanded)
- XLV. **Synthesis and spectroscopic studies of novel Cu(II), Co(II), Ni(II) and Zn(II) mixed ligand complexes with saccharin and nicotinamide**
Çakir S., Bulut I., Naumov P., Biçer E., Çakir O.
Journal of Molecular Structure, vol.560, no.1-3, pp.1-7, 2001 (SCI-Expanded)
- XLVI. **Binary and ternary complexes of Cu(II) ions with saccharin and cysteine**
Çakir S., Biçer E., Çakir O.
Electrochemistry Communications, vol.2, no.2, pp.124-129, 2000 (SCI-Expanded)
- XLVII. **Electrochemical monitoring of the interaction of cisplatin with cystine and ascorbic acid**
Çakir S., Biçer E., Çakir O.
Electrochemistry Communications, vol.2, no.8, pp.586-590, 2000 (SCI-Expanded)
- XLVIII. **Application of square-wave adsorptive stripping voltammetry to the study of cysteine and its interaction with some monosaccharides**
Çakir S., Biçer E., Çakir O.
Glycoconjugate Journal, vol.16, no.10, pp.579-584, 1999 (SCI-Expanded)
- XLIX. **Electrochemical study of cystine in the presence of cadmium and folic acid**

Çakir S., Biçer E., Çakir O.

Journal of Inorganic Biochemistry, vol.77, no.3-4, pp.249-255, 1999 (SCI-Expanded)

- L. **Square-wave adsorptive stripping voltammetric behaviour of fresh and aged cystine solutions at physiological pH1**

Çakir S., Biçer E., Çakir O.

Electrochemistry Communications, vol.1, no.7, pp.257-261, 1999 (SCI-Expanded)

- LI. **A Polarographic and Voltammetric Study of the Copper-Phenazopyridine Monohydrochloride System in Phosphate Buffer Medium**

Çakir O., Biçer E.

Electroanalysis, vol.9, no.1, pp.87-90, 1997 (SCI-Expanded)

Articles Published in Other Journals

- I. **Electrochemical study of the interaction of nicotinamide with tryptophan in the presence and absence of nickel(II)**

Çakir S., Bulut I., Biçer E., Coşkun E., Çakir O.

Journal of Electroanalytical Chemistry, vol.511, no.1-2, pp.94-100, 2001 (Scopus)

Books & Book Chapters

- I. **Moleküler etkileşimler**

BİÇER E.

in: ATKINS FİZİKOKİMYA, Esma Kılıç, Hamza Yılmaz, Salih Yıldız, Editor, BİLİM YAYINCILIK, pp.622-658, 2013

Refereed Congress / Symposium Publications in Proceedings

- I. **An electrochemical study on the interactions of cysteine and glutathione with rifampicin at different pHs**

PEHLİVAN V., BİÇER E.

International Eurasian Conference on Biological and Chemical Sciences, 26 April 2018

- II. **Synthesis, in vitro antifungal activities and DNA-binding studies of two Schiff bases derivated from sulfamethizole and hydroxy-substituted salicylaldehydes**

PEHLİVAN V., GENÇ BEKİROĞLU Y., BİÇER E.

International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 April 2018

- III. **Synthesis, in vitro antibacterial activity and calf thymus DNA binding of sulfamethizole-based Schiff bases**

PEHLİVAN V., GENÇ BEKİROĞLU Y., BİÇER E., DEGE N.

4th International Türk-Pak Conference on Chemical Sciences, Konya, Turkey, 26 October 2017