

# Prof. ÖMÜR ÇELİKBIÇAK

## Personal Information

**Fax Phone:** [+90 312 299 2163](tel:+903122992163)

**Email:** [omurce@hacettepe.edu.tr](mailto:omurce@hacettepe.edu.tr)

**Other Email:** [omurcelikbicak@gmail.com](mailto:omurcelikbicak@gmail.com)

**Web:** <https://avesis.hacettepe.edu.tr/omurce>

**Address:** Hacettepe Üniversitesi Fen Fakültesi Kimya Bölümü 06800 Beytepe/ANKARA

## International Researcher IDs

ScholarID: 5619389559449951496

ORCID: 0000-0003-2683-0312

Publons / Web Of Science ResearcherID: G-9293-2013

ScopusID: 8646358800

Yoksis Researcher ID: 19829

## Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Abd, Turkey 2005 - 2011

Doctorate, University of Akron, Faculty Of Science, Chemistry, United States Of America 2008 - 2009

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Abd, Turkey 2002 - 2005

Undergraduate, Hacettepe University, Fen Fakültesi, Kimya Bölümü, Turkey 1997 - 2002

## Dissertations

Doctorate, Development of versatile and reusable target surfaces for matrix-assisted laser desorption/ionization-mass spectrometry, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 2011

Postgraduate, Investigation of Complexes of Casein Kinase II (CKII) Enzyme with Polyamines, Oncoproteins and Oligonucleotides by Capillary Electrophoresis and MALDI-MS, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2005

## Research Areas

Chemistry, Analytical Chemistry, Chromatographic Analysis, Mass Spectroscopy, Sample preparation, Spectroscopical Methods, Biochemistry, Biophysical Chemistry, Bioinorganic Chemistry, Protein Chemistry, Physical Chemistry, Characterization of Polymers, Polymeric Adsorbents, Polymeric Complexes, Polymeric Materials, Medical Applications of Polymers, Spectroscopy, Natural Sciences

## Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2022 - Continues

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2013 - 2022

Expert PhD, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2011 - 2013

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2002 - 2011

## Academic and Administrative Experience

Director of the Center, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2021 - Continues  
Fakülte Kurulu Üyesi, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2015 - 2020  
Fakülte Yönetim Kurulu Üyesi, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2014 - 2020

## Courses

### Doctorate

İLERİ KÜTLE SPEKTROMETRİSİ VE UYGULAMALARI , Doctorate, 2021 - 2022  
MİKROSKOPİK VE SPEKTROSKOPİK TEKNİKLER, Doctorate, 2016 - 2017

### Postgraduate

MAKROMOLEKÜLLERİN KÜTLE SPEKTROMETRİSİ , Postgraduate, 2016 - 2017

### Undergraduate

BİTİRME ÖDEVİ, Undergraduate, 2022 - 2023  
FİZİKOKİMYA LABORATUVARI, Undergraduate, 2022 - 2023  
FİZİKOKİMYA 2, Undergraduate, 2018 - 2019  
FİZİKOKİMYA 1, Undergraduate, 2018 - 2019  
GENEL KİMYA 1, Undergraduate, 2016 - 2017  
KİMYA LABORATUVARI 2, Undergraduate, 2015 - 2016  
KİMYA LABORATUVARI 1 , Undergraduate, 2015 - 2016  
GENEL KİMYA LABORATUVARI, Undergraduate, 2014 - 2015  
GENEL KİMYA 2, Undergraduate, 2014 - 2015  
BİTİRME ÖDEVİ, Undergraduate, 2014 - 2015  
KİMYA LABORATUVARI 1, Undergraduate, 2014 - 2015  
MODERN KİMYASAL ANALİZ VE LABORATUVAR TASARIMI, Undergraduate, 2014 - 2015  
GENEL KİMYA 1, Undergraduate, 2014 - 2015  
GENEL KİMYA 1, Undergraduate, 2013 - 2014

## Supervised Theses

Çelikbıçak Ö., BİYOSİDAL ETKİLİ FONKSİYONEL NANOKARBON YAPILARIN SENTEZİ VE KARAKTERİZASYONU, Doctorate, S.Özel(Student), Continues  
Çelikbıçak Ö., Gıda Analizlerinde GC-MS Temelli Metabolomik Metot ve Uygulamaların Geliştirilmesi, Postgraduate, S.Pektaş(Student), Continues  
Çelikbıçak Ö., Sentetik Peptit Temelli Yeni Nesil Biyosidal Malzemelerin Geliştirilmesi, Doctorate, N.Zencirci(Student), Continues  
Çelikbıçak Ö., Salih B., Proteomiks çalışmalarında fosfopeptitlerin spesifik olarak zenginleştirilmesi ve kütle spektrometrisi ile tayini için polikasyonik malzemelerin geliştirilmesi, Postgraduate, H.EYVAZOĞLU(Student), 2018  
Çelikbıçak Ö., Kütle spektrometrisi uygulamalarında fosfopeptitlerin hassas tayini için yeni stratejilerin geliştirilmesi, Postgraduate, E.YILMAZ(Student), 2018  
DUMAN M., ÇELİKBIÇAK Ö., LDI-MS analizleri için etkin ve seçici yeni hedef yüzeylerin geliştirilmesi, Postgraduate, G.AYLAZ(Student), 2016  
ÇELİKBIÇAK Ö., Changes in the vascular tissue protein profile of the diabetic rats and the protective role of the beta blockers, Postgraduate, B.DAWLATY(Student), 2014

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

- I. **A porphyrinic, titanium based metal organic framework as a superior photocatalyst for visible light driven dye degradation: Fast and almost complete degradation with high initial Rhodamine B concentration**  
HACIEFENDİOĞLU D., POLAT M., Ozel S., ÇELİKBIÇAK Ö., Tuncel A.  
SURFACES AND INTERFACES, 2025 (SCI-Expanded)
- II. **Evaluation of antioxidant, antimicrobial, and bioactive properties and peptide sequence composition of Malatya apricot kernels**  
AYDIN Ç. M., ÇELİKBIÇAK Ö., HAYALOĞLU A. A.  
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.104, pp.8022-8036, 2024 (SCI-Expanded)
- III. **Plasma Proteomic Analysis Reveals the Potential Role of Lectin and Alternative Complement Pathways in IgA Vasculitis Pathogenesis**  
Demir S., YET İ., ŞARDAN EKİZ M., Sag E., BİLGİNER Y., ÇELİKBIÇAK Ö., LAY İ., ÖZEN S.  
Diagnostics, vol.13, no.10, 2023 (SCI-Expanded)
- IV. **ACE-inhibitory activities of peptide fractions (<3 kDa) and identification of peptide sequence by MALDI-ToF-MS in model cheeses incorporating different Lactobacillus species**  
Sahingil D., Gokce Y., Celikbicak O., Hayaloglu A. A.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.110, 2022 (SCI-Expanded)
- V. **Immobilization of Candida rugosa lipase on magnetic chitosan beads and application in flavor esters synthesis**  
BAYRAMOĞLU G., ÇELİKBIÇAK Ö., Kilic M., Arica M. Y.  
FOOD CHEMISTRY, vol.366, 2022 (SCI-Expanded)
- VI. **Highly Porous, Molecularly Imprinted Core-Shell Type Boronate Affinity Sorbent with a Large Surface Area for Enrichment and Detection of Sialic Acid Isomers**  
Kip C., Demir M. C., Yıldırım D., Hamaloğlu K. Ö., Çelikbiçak Ö., Tuncel A.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.31, no.7, pp.2806-2817, 2021 (SCI-Expanded)
- VII. **Aggrandizement of uranium (VI) removal performance of Lentinus concinnus biomass by attachment of 2,5-diaminobenzenesulfonic acid ligand**  
ÇELİKBIÇAK Ö., BAYRAMOĞLU G., Acikgoz-Erkaya I., ARICA M.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.328, no.3, pp.1085-1098, 2021 (SCI-Expanded)
- VIII. **Following hybridization on sensor/array platforms by using SPR, elipsometer and MALDI-MS**  
ÇELİKBIÇAK Ö., HAMALOĞLU K. Ö., SALİH B., Piskin E.  
NUCLEOSIDES NUCLEOTIDES & NUCLEIC ACIDS, vol.39, no.7, pp.1057-1072, 2020 (SCI-Expanded)
- IX. **Performances of protein array platforms prepared by soft lithography and self-assembling monolayers-approach by using SPR, ellipsometry and MALDI-MS**  
HAMALOĞLU K. Ö., ÇELİKBIÇAK Ö., SALİH B., Piskin E.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1198, 2019 (SCI-Expanded)
- X. **Ti (IV) attached-phosphonic acid functionalized capillary monolith as a stationary phase for in-syringe-type fast and robust enrichment of phosphopeptides**  
Salimi K., Kip C., ÇELİKBIÇAK Ö., Usta D. D., PINAR A., SALİH B., Tuncel A.  
BIOMEDICAL CHROMATOGRAPHY, vol.33, no.6, 2019 (SCI-Expanded)
- XI. **Comparative Electrochemistry and Electrochromic Application of Novel Binuclear Double-Decker Rare Earth Metal Phthalocyanines Bearing 4-(hydroxyethyl)phenoxy Moieties**  
Guzel E., ORMAN E. B., Koksoy B., ÇELİKBIÇAK Ö., Bulut M., ÖZKAYA A. R.  
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.166, no.10, 2019 (SCI-Expanded)
- XII. **CHEMICAL CHARACTERIZATION OF KARS HONEY**  
ÖZENİRLER Ç., Ecem-Bayram N., Gencay-Celemlı O., ÇELİKBIÇAK Ö., Sorkun K.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.27, no.3, pp.1889-1895, 2018 (SCI-Expanded)
- XIII. **Use of Sulfonates as Desorption Agents for Phosphopeptide Elution from an Anion-exchange Material**  
ATAKAY M., ÇELİKBIÇAK Ö., SALİH B.

- ANALYTICAL LETTERS, vol.51, no.5, pp.760-772, 2018 (SCI-Expanded)
- XIV. **Immobilization of laccase on the fibrous polymer-grafted film and study of textile dye degradation by MALDI-ToF-MS**  
Arica M. Y., SALİH B., ÇELİKBIÇAK Ö., Bayramoglu G.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.128, pp.107-119, 2017 (SCI-Expanded)
- XV. **Highly selective enrichment of phosphopeptides by titanium (IV) attached monodisperse-porous poly(vinylphosphonic acid-co-ethylene dimethacrylate) microspheres**  
SALIMI K., Usta D. D., ÇELİKBIÇAK Ö., PINAR A., SALİH B., Tuncel A.  
JOURNAL OF CHROMATOGRAPHY A, vol.1496, pp.9-19, 2017 (SCI-Expanded)
- XVI. **Ti(IV) carrying polydopamine-coated, monodisperse-porous SiO<sub>2</sub> microspheres with stable magnetic properties for highly selective enrichment of phosphopeptides**  
Salimi K., Usta D. D., ÇELİKBIÇAK Ö., PINAR A., SALİH B., Tuncel A.  
Colloids and Surfaces B: Biointerfaces, vol.153, pp.280-290, 2017 (SCI-Expanded)
- XVII. **Monitoring protein glycation by electrospray ionization (ESI) quadrupole time-of-flight (Q-TOF) mass spectrometer**  
AKILLIOGLU H. G., ÇELİKBIÇAK Ö., SALİH B., GÖKMEN V.  
FOOD CHEMISTRY, vol.217, pp.65-73, 2017 (SCI-Expanded)
- XVIII. **Removal of bisphenol A from aqueous medium using molecularly surface imprinted microbeads**  
Bayramoglu G., Arica M. Y., Liman G., ÇELİKBIÇAK Ö., SALİH B.  
CHEMOSPHERE, vol.150, pp.275-284, 2016 (SCI-Expanded)
- XIX. **Comparison of Two Methods for Purification of Enterocin B, a Bacteriocin Produced by Enterococcus faecium W3**  
Dundar H., ATAKAY M., ÇELİKBIÇAK Ö., SALİH B., Bozoglu F.  
PREPARATIVE BIOCHEMISTRY & BIOTECHNOLOGY, vol.45, no.8, pp.796-809, 2015 (SCI-Expanded)
- XX. **Antibiotic loaded nanocapsules functionalized with aptamer gates for targeted destruction of pathogens**  
Kavruk M., ÇELİKBIÇAK Ö., Ozalp V. C., Borsa B. A., Hernandez F. J., Bayramoglu G., SALİH B., Arica M. Y.  
CHEMICAL COMMUNICATIONS, vol.51, no.40, pp.8492-8495, 2015 (SCI-Expanded)
- XXI. **Immobilization of laccase on hairy polymer grafted zeolite particles: Degradation of a model dye and product analysis with MALDI-ToF-MS**  
ÇELİKBIÇAK Ö., Bayramoglu G., Yilmaz M., Ersoy G., Bicak N., SALİH B., Arica M. Y.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.199, pp.57-65, 2014 (SCI-Expanded)
- XXII. **Effects of 900 MHz Radiofrequency Radiation on Skin Hydroxyproline Contents**  
Cam S. T., Seyhan N., KAVAKLI C., ÇELİKBIÇAK Ö.  
CELL BIOCHEMISTRY AND BIOPHYSICS, vol.70, no.1, pp.643-649, 2014 (SCI-Expanded)
- XXIII. **Strong ionic interactions in noncovalent complexes between poly(ethylene imine), a cationic electrolyte, and Cibacron Blue, a nucleotide mimic - implications for oligonucleotide vectors**  
Celikbicak O., SALİH B., Wesdemiotis C.  
JOURNAL OF MASS SPECTROMETRY, vol.49, no.7, pp.597-607, 2014 (SCI-Expanded)
- XXIV. **Trypsin Immobilized on Magnetic Beads via Click Chemistry: Fast Proteolysis of Proteins in a Microbioreactor for MALDI-ToF-MS Peptide Analysis**  
Bayramoglu G., ÇELİKBIÇAK Ö., Arica M. Y., SALİH B.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.53, no.12, pp.4554-4564, 2014 (SCI-Expanded)
- XXV. **A Trypsin Immobilized Sol-Gel for Protein Identification in MALDI-MS Applications**  
ÇELİKBIÇAK Ö., ATAKAY M., Guler U., SALİH B.  
ANALYTICAL LETTERS, vol.47, no.4, pp.707-719, 2014 (SCI-Expanded)
- XXVI. **Large-scale purification of a bacteriocin produced by Leuconostoc mesenteroides subsp cremoris using diatomite calcium silicate**  
Dundar H., ÇELİKBIÇAK Ö., SALİH B., Bozoglu T. F.  
TURKISH JOURNAL OF BIOLOGY, vol.38, no.5, pp.611-618, 2014 (SCI-Expanded)
- XXVII. **Specific enrichment and direct detection of phosphopeptides on insoluble transition metal oxide**

- particles in matrix-assisted laser desorption/ionization mass spectrometry applications  
ÇELİKBIÇAK Ö., KAYNAR G., ATAKAY M., Guler Ü., Kayili H. M., SALİH B.  
EUROPEAN JOURNAL OF MASS SPECTROMETRY, vol.19, no.3, pp.151-162, 2013 (SCI-Expanded)
- XXVIII. **A novel tantalum-based sol-gel packed microextraction syringe for highly specific enrichment of phosphopeptides in MALDI-MS applications**  
ÇELİKBIÇAK Ö., ATAKAY M., Guler Ü., SALİH B.  
ANALYST, vol.138, no.15, pp.4403-4410, 2013 (SCI-Expanded)
- XXIX. **Small molecule analysis using laser desorption/ionization mass spectrometry on nano-coated silicon with self-assembled monolayers**  
ÇELİKBIÇAK Ö., DEMIREL G., PIŞKİN E., SALİH B.  
ANALYTICA CHIMICA ACTA, vol.729, pp.54-61, 2012 (SCI-Expanded)
- XXX. **Therapeutic effects of Mycobacterium phlei cell wall extracts**  
ORHAN B., BÜBER E., KESKIN M. S., ÇELİKBIÇAK Ö., SALİH B., ALP A., SARIBAŞ Z., ÖZEN A. H., Acan N. L.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.42, no.2, pp.193-199, 2012 (SCI-Expanded)
- XXXI. **Amine-Functionalized Sol-Gel-Based Lab-in-a-Pipet-Tip Approach for the Fast Enrichment and Specific Purification of Phosphopeptides in MALDI-MS Applications**  
ATAKAY M., ÇELİKBIÇAK Ö., SALİH B.  
ANALYTICAL CHEMISTRY, vol.84, no.6, pp.2713-2720, 2012 (SCI-Expanded)
- XXXII. **GAS CHROMATOGRAPHY IN PLANT SCIENCE, WINE TECHNOLOGY, TOXICOLOGY AND SOME SPECIFIC APPLICATIONS Preface**  
SALİH B., ÇELİKBIÇAK Ö.  
GAS CHROMATOGRAPHY IN PLANT SCIENCE, WINE TECHNOLOGY, TOXICOLOGY AND SOME SPECIFIC APPLICATIONS, 2012 (SCI-Expanded)
- XXXIII. **Analysis of energy transfer and ternary non-covalent filler/matrix/UV stabilizer interactions in carbon nanofiber and oxidized carbon nanofiber filled poly(methyl methacrylate) composites**  
Gunes I. S., Perez-Bolivar C., Jimenez G. A., ÇELİKBIÇAK Ö., Li F., Anzenbacher P., Wesdemiotis C., Jana S. C.  
POLYMER, vol.52, no.23, pp.5355-5361, 2011 (SCI-Expanded)
- XXXIV. **Preconcentration and matrix elimination for the determination of Pb(II), Cd(II), Ni(II), and Co(II) by 8-hydroxyquinoline anchored poly(styrene-divinylbenzene) microbeads**  
ASKUN H., GÜLBAKAN B., ÇELİKBIÇAK Ö., UZUN C., GUVEN G., SALİH B.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.107, no.4, pp.2714-2722, 2008 (SCI-Expanded)
- XXXV. **Solid phase extraction of organochlorine pesticides with modified poly(styrene-divinylbenzene) microbeads using home-made solid phase extraction syringes**  
Guelbakan B., UZUN C., CELIKBICAK O., GUEVEN G., SALİH B.  
REACTIVE & FUNCTIONAL POLYMERS, vol.68, no.2, pp.580-593, 2008 (SCI-Expanded)
- XXXVI. **Synthesis, characterization and electrochemical properties of novel metal free and zinc(II) phthalocyanines of ball and clamshell types**  
Ceyhan T., Altindal A., Ozkaya A. R., Celikbicak O., Salih B., Erbil M. K., Bekaroglu O.  
POLYHEDRON, vol.26, no.15, pp.4239-4249, 2007 (SCI-Expanded)
- XXXVII. **Matrix elimination method for the determination of precious metals in ores using electrothermal atomic absorption spectrometry**  
Salih B., Celikbicak O., DOKER S., DOGAN M.  
ANALYTICA CHIMICA ACTA, vol.587, no.2, pp.272-280, 2007 (SCI-Expanded)
- XXXVIII. **Novel short peptides isolated from phage display library inhibit vascular endothelial growth factor activity**  
ERDAG B., BALCIOGLU K. B., KUMBASAR A., Celikbicak O., ZEDER-LUTZ G., ALTSCHUH D., Salih B., BAYSAL K.  
MOLECULAR BIOTECHNOLOGY, vol.35, no.1, pp.51-63, 2007 (SCI-Expanded)
- XXXIX. **Recovery and pre-concentration of gold onto poly((N-(Hydroxymethyl)methacrylamide)-1-allyl-2-thiourea) hydrogels synthesized by gamma radiation**  
DOKER S., Celikbicak O., DOGAN M., Salih B.  
MICROCHEMICAL JOURNAL, vol.84, pp.80-87, 2006 (SCI-Expanded)

- XL. Characterization of poly(N(hydroxymethyl)methacrylamide-ATU) hydrogels synthesized by gamma radiation**  
SAHİNER N., Celikbicak O., MALCI S., KANTOĞLU O., SALIH B.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.99, no.4, pp.1657-1664, 2006 (SCI-Expanded)
- XLI. Radiation synthesis and characterization of new hydrogels based on acrylamide copolymers cross-linked with 1-allyl-2-thiourea**  
ŞAHİNER N., MALCI S., Celikbicak O., KANTOĞLU Ö., Salih B.  
RADIATION PHYSICS AND CHEMISTRY, vol.74, no.2, pp.76-85, 2005 (SCI-Expanded)
- XLII. Gold recovery onto poly(acrylamide-allylthiourea) hydrogels synthesized by treating with gamma radiation**  
KILIÇ A. G., MALCI S., Celikbicak O., ŞAHİNER N., Salih B.  
ANALYTICA CHIMICA ACTA, vol.547, no.1, pp.18-25, 2005 (SCI-Expanded)

### Articles Published in Other Journals

- I. Physicochemical and Palynological Characterization of the Onobrychis Miller (Fabaceae) Honey**  
ÖZENİRLER Ç., GENÇAY ÇELEMLİ Ö., ECEM BAYRAM N., DİKMEN F., ZARE G., ÇELİKBIÇAK Ö., SORKUN K.  
Gazi University Journal of Science Part A: Engineering and Innovation, 2023 (Peer-Reviewed Journal)
- II. Physicochemical and Palynological Characterization of the Onobrychis Miller (Fabaceae) Honey**  
ÖZENİRLER Ç., Gençay Çelemlı Ö., ECEM BAYRAM N., DİKMEN F., ZARE G., ÇELİKBIÇAK Ö., SORKUN K.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.32, no.1, pp.63-76, 2019 (ESCI)
- III. Mycobacterium Brumae Extract Fractions with Potential Immunotherapeutic Activity for Bladder Cancer**  
ERTÜRK Z., BÜBER E., Ozen H., ÇELİKBIÇAK Ö., SALİH B., Acan N. L.  
UROONKOLOJİ BULTENİ-BULLETIN OF UROONCOLOGY, vol.16, no.3, pp.70-76, 2017 (ESCI)

### Papers Published in Refereed Scientific Meetings

- I. Farklı Yapılı Sol-Jel Malzemeler Kullanılarak Kolay Uygulanabilir Fosfopeptit Zenginleştirme Yöntemlerinin Geliştirilmesi**  
Çelikbiçak Ö., Kayılı H. M., Salih B., Atakay M.  
12. Ulusal Spektroskopi Kongresi, Antalya, Turkey, 18 - 22 May 2011, pp.31
- II. Determination of The Activity and Specificity of The Proteolytic Enzymes Entrapped in Sol-Gel Materials by MALDI-MS**  
Çelikbiçak Ö., Salih B.  
7th Aegean Analytical Chemistry Days, Levkas, Greece, 29 October - 03 November 2010, pp.49
- III. Kütle Spektrometrisi Temelli Omik Teknolojileri ve Biyomedikal Uygulamaları**  
Çelikbiçak Ö.  
XXVII. Ulusal Allerji ve Klinik İmmünoloji Kongresi, 24 - 25 October 2020, pp.11
- IV. A PILOT PROTEOMIC ANALYSIS OF PLASMA BIOMARKERS IN IGA VASCULITIS**  
DEMİR S., Sardan M., YET İ., SAĞ E., BİLGİNER Y., ÇELİKBIÇAK Ö., ÖZEN S.  
Annual European Congress of Rheumatology (EULAR), ELECTR NETWORK, 03 June 2020, vol.79, pp.1200-1201
- V. Studies with some mycobacterial culture filtrates for immunotherapeutical activity**  
ERTÜRK Z., BÜBER E., ÖZEN A. H., ÇELİKBIÇAK Ö., SALİH B., AÇAN N. L.  
22th ISE International Conference All Aspects of Laboratory Medicine, 30 June - 03 July 2018
- VI. Phosphopeptide enrichment via immobilized metal affinity chromatography using phosphonic acid functionalized capillary monolith as a stationary phase in a microfluidic system**  
USTA D. D., KİP F. Ç., SALİMİ K., ÇELİKBIÇAK Ö., PINAR A., SALİH B., TUNCEL S. A.  
45th International Symposium on High Performance Liquid Phase Separations and Related Techniques., 18 - 22

June 2017

- VII. **Phosphopeptide enrichment from human-serum via immobilized metal affinity chromatography using phosphonic acid functionalized capillary monolith as a stationary phase in a microfluidic system**  
USTA D. D., KİP F. Ç., salimi k., ÇELİKBIÇAK Ö., PINAR A., SALİH B., TUNCEL S. A.  
45th International Symposium on High Performance Liquid Phase Separations and Related Techniques(HPLC 2017), 18 - 22 June 2017
- VIII. **Molecularly Imprinted Polymeric Nanoparticle Modified Film Based MALDI Sample Probe for Detection of Ciprofloxacin**  
AYLAZ G., ÇELİKBIÇAK Ö., DUMAN M.  
XIX Annual Linz Winter Workshop, Linz, Austria, 3 - 06 February 2017
- IX. **Polydopamine Coated SiNWs Target Surfaces for The Detection of Small Molecules in Laser Desorption Ionization Mass Spectrometry**  
ŞANLI G., DEMİREL G., ÇELİKBIÇAK Ö.  
3rd International Congress on Biosensors, Ankara, Turkey, 5 - 07 October 2016, pp.91
- X. **Mass Spectrometry Applications in Biomedical Research**  
ÇELİKBIÇAK Ö.  
3rd International Congress on Biosensors, Ankara, Turkey, 5 - 07 October 2016
- XI. **A Novel Fiber based MALDI Probe for Selective Detection of Ciprofloxacin**  
AYLAZ G., Tevlek A., ÇELİKBIÇAK Ö., DUMAN M.  
3rd International Congress on Biosensors, 5 - 07 October 2016
- XII. **Mass Spectrometry in Biomedical Research” 3rd International Congress on Biosensors**  
Çelikbiçak Ö.  
Mass Spectrometry in Biomedical Research” 3rd International Congress on Biosensors, Ankara, Turkey, 5 - 07 October 2016, pp.5
- XIII. **Phosphopeptide Enrichment Using Ti4 Attached Monodisperse Porous Poly Phosphonic Acid Based Microspheres**  
Kouroush S., USTA D. D., ÇELİKBIÇAK Ö., SALİH B., TUNCEL S. A.  
44th International Symposium on High Performance Liquid Phase Separations and Related Techniques, 19 - 24 June 2016
- XIV. **Proteomic comparison of rat vascular tissue in type 1 diabetes mellitus**  
DAWLATY B., BÜBER E., ÇELİKBIÇAK Ö., SALİH B., TURAN B., AÇAN N. L.  
International Society of Enzymology Meeting, Annual Conference 2015, 29 June - 01 July 2015
- XV. **Highly selective protein proteolysis using aptamer immobilized polymer supports for mass spectrometry based proteomics**  
Çelikbiçak Ö., Güler Ü., Salih B., Yıldırım F.  
20th International Mass Spectrometry Conference, Geneve, Switzerland, 24 - 29 August 2014, pp.51
- XVI. **Small Molecule Analysis Using Laser Desorption/Ionization-Mass Spectrometry on MALDI matrix Incorporated Sol-Gel Film**  
Çelikbiçak Ö., Salih B.  
62nd ASMS (American Society for Mass Spectrometry) Conference on Mass Spectrometry and Allied Topics, Proceedings, Maryland, United States Of America, 15 - 19 June 2014, pp.30
- XVII. **Highly selective protein proteolysis using aptamer immobilized polymer supports for mass spectrometry based proteomics**  
Çelikbiçak Ö., Güler Ü., Salih B., Yıldırım F.  
62nd ASMS (American Society for Mass Spectrometry) Conference on Mass Spectrometry and Allied Topics, Proceedings, Maryland, United States Of America, 15 - 19 June 2014, pp.42
- XVIII. **An Aptamer Mediated Enrichment Method for Mass Spectrometric Detection of Thrombin**  
Çelikbiçak Ö., Güler Ü., Salih B.  
6th Black Sea Basin Conference On Analytical Chemistry, Trabzon, Turkey, 10 - 14 September 2013, pp.10
- XIX. **Highly selective enrichment of sialylated glycopeptides using titania sol-gels for mass spectrometry**

## **based glycoproteomics**

Çelikbıçak Ö., Salih B., Kayılı H. M.

6th Black Sea Basin Conference On Analytical Chemistry, Trabzon, Turkey, 10 - 14 September 2013, pp.10

- XX. **An Enrichment Approach Using a Highly Selective Aptamer Modified PS-DVB Microbeads for Subpicomole Level Lysozyme Detection by Mass Spectrometry**  
Çelikbıçak Ö., Güler Ü., Salih B.  
61st ASMS (American Society for Mass Spectrometry) Conference on Mass Spectrometry and Allied Topics, Minnesota, United States Of America, 9 - 13 June 2013, pp.10
- XXI. **Fast and Efficient Proteolysis of Proteins by Pepsin-encapsulated Magnetic Sol-Gel for Mass Spectrometry Based Proteomics Applications**  
Çelikbıçak Ö., Kayılı H. M., Salih B.  
61st ASMS (American Society for Mass Spectrometry) Conference on Mass Spectrometry and Allied Topics, Minnesota, United States Of America, 9 - 13 June 2013, pp.10
- XXII. **Highly Selective Enrichment of Sialylated Glycopeptides Using Titania Sol-Gels for MALDI-MS Applications**  
Çelikbıçak Ö., Atakay M., Salih B.  
61st ASMS (American Society for Mass Spectrometry) Conference on Mass Spectrometry and Allied Topics, Minnesota, United States Of America, 9 - 13 June 2013, pp.10
- XXIII. **Highly Specific Phosphopeptide Enrichment Using a Novel Tantalum-based Sol-gel for MALDI-MS Applications**  
Çelikbıçak Ö., Atakay M., Güler Ü., Salih B.  
61st ASMS (American Society for Mass Spectrometry) Conference on Mass Spectrometry and Allied Topics, Minnesota, United States Of America, 9 - 13 June 2013, pp.10
- XXIV. **Smart Sol-Gels for Phosphoproteomics and Glycoproteomics Applications by Mass Spectrometry**  
Çelikbıçak Ö., Atakay M., Kayılı H. M., Güler Ü., Salih B.  
International Workshop on MS-Based Proteomics, Bioinformatics and Health Informatics, İzmir, Turkey, 14 - 16 May 2014, pp.20
- XXV. **Phosphopeptide Enrichment Using Amine-Functionalized Sol-Gels For MALDI-ToF-MS", 16th European Conference on Analytical Chemistry**  
Çelikbıçak Ö., Atakay M., Salih B.  
16th European Conference on Analytical Chemistry, Leskovac, Serbia, 11 - 15 September 2011, pp.10
- XXVI. **Fast and Efficient Detection of Phosphopeptides in MALDI-MS using Transition Metal Containing Sol-Gels**  
Çelikbıçak Ö., Atakay M., Güler Ü., Kayılı H. M., Salih B.  
16th European Conference on Analytical Chemistry, Belgrade, Serbia, 11 - 15 September 2011, pp.10
- XXVII. **Protein-Protein Komplekslerinin Denatüre Edilmeden Native-Page İle Tayinleri**  
Çelikbıçak Ö., Güler Ü., Salih B.  
12. Ulusal spektroskopi Kongresi, Antalya, Turkey, 18 - 22 May 2011, pp.79
- XXVIII. **Sol-Jellerle İmmobilize Edilmiş Preolitik Enzimlerin Aktivitesinin MALDI-MS İle İncelenmesi**  
Çelikbıçak Ö., Salih B., Güler Ü.  
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010, pp.69
- XXIX. **2,5-Dihidroksibenzoikasit Matriksi ve Türevlerinin Biyomoleküllerinin MALDI-MS İle Analizlerindeki Etkinliklerin İncelenmesi**  
Çelikbıçak Ö., Salih B.  
24. Ulusal Kimya Kongresi, Zonguldak, Turkey, 29 June - 02 July 2010, pp.70
- XXX. **Investigation of  $\beta$ -Amyloid(1-40) Peptide Plaque Formation and Inhibition with Various Inhibitors by MALDI-TOF-MS**  
Çelikbıçak Ö., Salih B.  
58th ASMS (American Society for Mass Spectrometry) Conference on Mass Spectrometry and Allied Topics, Utah, United States Of America, 23 - 27 May 2010
- XXXI. **Therapeutic Effects of Mycobacterial Cell Wall Extracts**



- Keskin M., Büber E., Çelikbıçak Ö., Salih B., Alp A., Sarıbaş Z., Özen A. H., Açıan N. L.  
", 3rd Central and Eastern European Proteomics Conference, Budapest, Hungary, 6 - 09 May 2009, pp.88
- XXXII. **Development and Optimization of a Surface Aided Enzymatic Digestion System Digestion System to Use in Proteomics Studies**  
Çelikbıçak Ö., Salih B., Atakay M., Gülbakan B.  
18th International Mass Spectrometry Conference, Proceedings,, Bremen, Germany, 30 May - 04 September 2009, pp.48
- XXXIII. **Protein-Boya Etkileşimlerinin, Etkileşim Yerleri ve Stokiyometrilerinin MALDI-MS, HPLC-MS ve CE-MS İle Belirlenmesi**  
Çelikbıçak Ö., Salih B., Tuncer C.  
23. Ulusal Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009, pp.79
- XXXIV. **Diş Otu Familyasının GC-MS ile Kimyasal Taksonomisinin Belirlenmesi**  
Çelikbıçak Ö., Salih B.  
23. Ulusal Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009, pp.80
- XXXV. **Noncovalent Interactions between PEI and Cibacron Blue 3GA studied by Mass Spectrometry**  
Çelikbıçak Ö., Salih B., Wesdemiotis C.  
57th ASMS (American Society for Mass Spectrometry), Conference on Mass Spectrometry and Allied Topics, Proceedings, Pennsylvania, United States Of America, 31 May - 04 June 2009, pp.485
- XXXVI. **Detection of Small Biological Molecules by LDI-TOF-MS Using Self-Assembled Molecules on Silicon Surfaces**  
Çelikbıçak Ö., Salih B., Demirel G., Pişkin E.  
58th ASMS (American Society for Mass Spectrometry) Conference on Mass Spectrometry and Allied Topics, Utah, United States Of America, 6 - 09 May 2009, pp.382
- XXXVII. **Düşük Molekül Ağırlıklı Polivinilpirolidon(PVP) Polimerlerinin MALDI-MS İle İncelenmesi**  
Çelikbıçak Ö., Salih B.  
10. Ulusal Spektroskopi Kongresi, İzmir, Turkey, 4 - 07 July 2007, pp.8
- XXXVIII. **Investigation Of Casein Kinase 2 (CK2) Enzyme and Its Binding Properties with p53 Protein, Polylysine and Heparin by MALDI-MS", International Symposium on Drug Research and Development**  
Çelikbıçak Ö., Taşağır C., Salih B., Criss W. E.  
International Symposium on Drug Research and Development, Antalya, Turkey, 17 - 20 May 2007, pp.59
- XXXIX. **Investigation of Mycobacterium phlei cell extracts by MALDI-MS**  
Buber E., ORHAN B., Celikbicak O., Salih B., KESKIN M. S., Saribas Z., Alpaslan A., Ozen H., Acan N. L.  
31st Congress of the Federation-of-European-Biochemical-Societies (FEBS), İstanbul, Turkey, 24 - 29 June 2006, vol.273, pp.254
- XL. **POLİ STİREN DİVİNİLBENZEN MİKROKÜRELERİNİN NH<sub>2</sub> 8HQ VE COOH İLE MODİFİKASYONU VE AĞIR METALLERİN KATI FAZ EKSTRAKSİYONU İÇİN KULLANIMI**  
GÜLBAKAN B., UZUN C., ÇELİKBIÇAK Ö., güven o., SALİH B.  
XIX. Ulusal Kimya Kongresi, Turkey, 30 September - 04 October 2005
- XLI. **POLİ STİREN DİVİNİLBENZEN MİKROKÜRELERİNİN 8HQ İLE MODİFİKASYONUyla Cd II Pb II Ni II Co II METALLERİNİN UZAKLAŞTIRILMASI VE ZENGİNLEŞTİRİLMESİ**  
aşkun h., GÜLBAKAN B., UZUN C., ÇELİKBIÇAK Ö., SALİH B., güven o.  
XIX. Ulusal Kimya Kongresi, Ege Üniversitesi, Turkey, 30 September - 04 October 2005
- XLII. **Kazein Kinaz 2 Enziminin MALDI-MS ile İncelenmesi**  
Çelikbıçak Ö., Salih B.  
19. Ulusal Kimya Kongresi, Aydın, Turkey, 30 September - 04 October 2005, pp.10
- XLIII. **Investigation of Interactions of CK2 Enzyme and its Substrates with Polyamines and Heparin by MALDI-MS**  
Çelikbıçak Ö., Salih B., Criss W. E.  
Colloquium Spectroscopicum Internationale XXXIV, Antwerp, Belgium, 04 September 2003 - 09 September 2005, pp.231
- XLIV. **Determination of Ligand-Dye and Peptide-Dye complexes in MALDI-TOF-MS", 4th Aegean Analytical**

## Chemistry Days, Proceedings

Çelikbıçak Ö., Salih B.

Aegean Analytical Chemistry Days, Aydın, Turkey, 29 September - 03 October 2003, vol.1, pp.54-56

- XLV. **Synthesis, characterization and application of -CN, -NH<sub>2</sub>, and -COOH modified Poly(styrene-divinylbenzene) microbeads for the separation of some biomolecules in the home-packed HPLC column**

Çelikbıçak Ö., Salih B., Uzun C., Güven O.

Colloquium Spectroscopicum Internationale XXXIII, Granada, Spain, 7 - 12 September 2003, vol.1, pp.534

- XLVI. **Preconcentration and recovery of precious metal ions from geological samples by 3,6,10,13-tetrathiacyclotetradecan-1,8-diol modified poly(chloromethylstyrene-divinylbenzene) microbeads**

Çelikbıçak Ö., Kavaklı C., Salih B.

Colloquium Spectroscopicum Internationale XXXIII, Granada, Spain, 7 - 12 September 2003, vol.1, pp.359

## Supported Projects

SALİH B., KAVAKLI C., ATAKAY M., KAYILI H. M., GÜLER TOKAT Ü., ÇELİKBIÇAK Ö., AÇAN N. L., BAŞARAN A. A., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, İleri Kütle Spektrometresi Araştırma Laboratuvarı, 2016 - Continues

ÇELİKBIÇAK Ö., TÜBİTAK Project, Biyosidal Etkili Akıllı Malzeme ve Ürünlerin Geliştirilmesi, 2020 - 2028

Çelikbıçak Ö., Yet İ., Gençay Çelemlı Ö., Şardan Ekiz M., TÜBİTAK Project, The Investigation of Turkish Major Monofloral Honey Species through Proteomic and Metabolomic Approaches, 2022 - 2025

ABACI S., ÇUBUKÇU H. E., ÇELİKBIÇAK Ö., Project Supported by Higher Education Institutions, HÜNİTEK Araştırma potansiyelinin artırılması, 2017 - 2021

ÇELİKBIÇAK Ö., ARSLAN Ö., UZUN C., SALİMİ K., YILMAZ E., Project Supported by Higher Education Institutions, Gıdalardaki Biyojen Aminlerin Hızlı ve Hassas Tayini için Yeni Kütle Spektrometrik Yöntemlerin ve Analiz Kitlerinin Geliştirilmesi, 2017 - 2021

ÇELİKBIÇAK Ö., Kobi, "Kanatlı Endüstri Ürünlerinde Salmonella Türleri ile Mücadele için Özgün Antibakteriyel Peptit Temelli Ürün Geliştirilmesi" Tübitak Teydeb 1507 proje yazımı, 2019 - 2020

ÇELİKBIÇAK Ö., TÜBİTAK Project, KANATLI KÜMESLERİNDE KIRMIZI TAVUK BİTİ MÜCADELESİNDE ETKİN OLARAK KULLANILABİLECEK KALINTI BIRAKMAYAN YENİ YÖNTEM VE ÜRÜNLERİN GELİŞTİRİLMESİ, 2019 - 2020

KİP F. Ç., TUNCEL S. A., ÇELİKBIÇAK Ö., Project Supported by Higher Education Institutions, Yeni bir erken evre tümör belirtecinin moleküler baskılama ve LC-MS/MS kullanılarak geliştirilmesi, 2017 - 2019

ÇELİKBIÇAK Ö., TÜBİTAK Project, 1507 proje yazımı\_ Kanatlı kümeslerinde kırmızı bit (dermanyssus gallinae) mücadelesinde etkin olarak kullanılabilir kalıntı bırakmayan yeni yöntem ve ürünlerin geliştirilmesi, 2018 - 2018

ÇELİKBIÇAK Ö., Project Supported by Higher Education Institutions, Fosfopeptitlerin Magnezyum İçeren Sol-jeller ile Zenginleştirilmesi ve MALDI-MS ile Tayini, 2017 - 2018

Çelikbıçak Ö., Abacı S., Yaman Y. T., TAGEM Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü Projesi, BAHARATLARDAKİ TAĞŞIŞIN EKONOMİK, HIZLI VE DUYARLI TESPİTİNE YÖNELİK KOLORİMETRİK TEST STRİPLERİNİN GELİŞTİRİLMESİ, 2016 - 2018

ÇELİKBIÇAK Ö., SALİH B., TÜBİTAK Project, KALICI ETKİYE SAHİP, GENİŞ SPEKTRUMLU NANOTEKNOLOJİK BİYOSİDAL ÜRÜN GELİŞTİRME, 2015 - 2017

ÇELİKBIÇAK Ö., Project Supported by Higher Education Institutions, MALDI-MS ile Küçük Moleküllerin Kolay tayini için Yeni Analitik Yöntemlerin Geliştirilmesi, 2015 - 2016

Çelikbıçak Ö., Hayaloğlu A. A., Şahingil D., TÜBİTAK Project, Model Peynirde Biyoaktif Peptit Oluşumunun Araştırılması ve Peptitlerin MALDI ToF MS ile Tanımlanması, 2014 - 2016

ÇELİKBIÇAK Ö., DENKBAŞ E. B., BAYRAM C., AYDIN DEDE E. E., Project Supported by Higher Education Institutions, İleri Teknolojilerde Ticarileşme Stratejileri, 2015 - 2015

ÇELİKBIÇAK Ö., TÜBİTAK Project, Bitki Koruma Ürünlerinin Geliştirilmesi ve Üretilmesi çağrısı hakkında Tübitak KAMAG 1007 projesi için proje dosyasının hazırlanması, 2015 - 2015

AÇAN N. L., ÇELİKBIÇAK Ö., Project Supported by Higher Education Institutions, Tip 1 diabetli sıçan vasküler dokusunda proteomik karşılaştırma, 2015 - 2015

SALİH B., KABADAYI H., TAVŞANLI B., ÇELİKBIÇAK Ö., HÖCÜK C., KAYILI H. M., Project Supported by Higher Education Institutions, SİYALİK ASİT İÇEREN GLİKOPEPTİTLERİN HIZLI VE ETKİN KÜTLE SPEKTROMETRİK ANALİZLERİ İÇİN GEÇİŞ METAL OKSİTLERİ KULLANILARAK SEÇİMLİ OLARAK ZENGİNLEŞTİRİLMESİ, 2014 - 2015

ÇELİKBIÇAK Ö., Project Supported by Higher Education Institutions, FOSFOPEPTİTLERİN KÜTLE SPEKTROMETRİSİ İLE ETKİN TAYİNİ İÇİN SEÇİCİLİĞİ YÜKSEK POLİMER JEL TEMELLİ ZENGİNLEŞTİRME METOTLARININ GELİŞTİRİLMESİ, 2014 - 2015

ÇELİKBIÇAK Ö., Project Supported by Higher Education Institutions, Türkiye Doping Kontrol Merkezi'nin Yenilenmesi ve Akreditasyonu, 2012 - 2015

ÇELİKBIÇAK Ö., TUBITAK Project, Lektinlerin ve Lektin Karbonhidrat Lektin Oligonükleotid Komplekslerinin MALDI MS ve LC ESI MS Kullanılarak İncelenmesi, 2011 - 2013

ÇELİKBIÇAK Ö., TUBITAK Project, Fosfoproteomiks Çalışmaları için Sol Jel Malzemeler Kullanılarak Fosfopeptitlerin Zenginleştirilmesi, 2010 - 2012

ÇELİKBIÇAK Ö., TUBITAK Project, Matriks Yardımlı Lazer Desorpsiyon İyonlaşmalı Kütle Spektrometresi için Çok Amaçlı ve Yeniden Kullanılabilir Hedef Yüzeylerin Geliştirilmesi, 2007 - 2009

ÇELİKBIÇAK Ö., TUBITAK Project, Kovalent Olmayan Biyomolekül Komplekslerinin Jel Elektroferez ve MALDI TOF MS ile İncelenmesi, 2005 - 2007

## Patent

ATAKAY M., ÇELİKBIÇAK Ö., FOSFOPEPTİT ZENGİNLEŞTİRME AMACIYLA KULLANILAN BİR MAZLEME VE ÜRETİM YÖNTEMİ, Patent, CHAPTER C Chemistry; Metallurgy, Standard Registration, 2015

## Scientific Research / Working Group Memberships

Sentetik Biyofiziksel Sistemler Araştırma Grubu, Hacettepe University, Turkey,  
[https://lab.hacettepe.edu.tr/tr/laboratuvar/biyofizikokimya\\_arastirma\\_grubu-67](https://lab.hacettepe.edu.tr/tr/laboratuvar/biyofizikokimya_arastirma_grubu-67), 2014 - Continues

## Metrics

Publication: 92  
Citation (WoS): 634  
Citation (Scopus): 712  
H-Index (WoS): 16  
H-Index (Scopus): 16

## Scholarships

Yurt dışı araştırma bursu , TUBITAK, 2011 - 2012

## Awards

Çelikbiçak Ö., Bilim-Hizmet-Teşvik Ve Proje Ödülleri , Türk Eczacılar Birliği, Eczacılık Akademisi , February 2007

## Non Academic Experience

THE UNIVERSITY OF AKRON (A.B.D), RESEARCH SCHOLAR