

# Prof. İSMAİL HAKKI BOYACI

## Personal Information

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

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

## International Researcher IDs

ORCID: 0000-0003-1333-060X

ScopusID: 6603211547

Yoksis Researcher ID: 6484

## Education Information

Doctorate, Hacettepe University, Fen Bilimleri , Turkey 1997 - 2001

## Foreign Languages

English, B2 Upper Intermediate

## Research Areas

Agricultural Sciences, Agriculture

## Academic Titles / Tasks

Professor, Hacettepe University, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 2009 - Continues

## Advising Theses

BOYACI İ. H., Yüzey plazmon rezonans temelli trombin biyosensörünün geliştirilmesi, Doctorate, D.ATAMAN(Student), 2017

BOYACI İ. H., Gıda kaynaklı patojen bakterilerin biyokontrolünde faj terapi ve fitoterapinin birlikte kullanımı, Postgraduate, E.KÜBRA(Student), 2017

BOYACI İ. H., Determination of liquid egg quality and effects of heat treatment on egg proteins, Doctorate, R.SELİN(Student), 2017

BOYACI İ. H., Farklı kaynaklardan elde edilen esansiyel yağlar ve baharatlarda bazı kalite özelliklerinin spektrometrik yöntemlerle tespiti, Postgraduate, E.ERCİOĞLU(Student), 2017

BOYACI İ. H., Gıdaların elemental analizlerinde lazer indüklü plazma spektroskopisi, Doctorate, G.BİLGE(Student), 2016

BOYACI İ. H., Yüzeyde güçlendirilmiş Raman spektroskopisi kullanılarak yüksek hassasiyette DNA analizine yönelik dönen çember amplifikasyonu yönteminin geliştirilmesi, Doctorate, B.GÜVEN(Student), 2016

BOYACI İ. H., SAĞLAM N., Kloroplast ve Raman spektroskopisi kullanılarak herbisit tayini, Postgraduate, H.ŞEBNEM(Student), 2016

BOYACI İ. H., Buğday fraksiyonlarında lazer indüklü plazma spektroskopisi ile kül ve protein analizi, Postgraduate, B.SEZER(Student), 2016

BOYACI İ. H., Küf dekontaminasyonu için akışkan yatak atmosferik basınç plazma reaktörü tasarımı, Doctorate, B.GÜNAYDIN(Student), 2015

BOYACI İ. H., Atmosferik basınç plazma uygulamasının gıdaların dekontaminasyonu ve detoksifikasyonu amacıyla kullanımı, Doctorate, Y.ŞEN(Student), 2015

BOYACI İ. H., Sert şekerlemelerde kontrolsüz inversiyon ve soğuk erime problemlerinin araştırılması ve çözüm önerileri, Postgraduate, K.İLİSLAN(Student), 2014

BOYACI İ. H., Yüzeyde güçlendirilmiş raman spektroskopisi ile DNA hassas tayini ve nanopartiküller arası mesafelerin optimizasyonu, Postgraduate, G.GÖRKEM(Student), 2014

BOYACI İ. H., Yüzeyde güçlendirilmiş Raman spektroskopisi tekniği kullanılarak hedef DNA dizi tayini, Postgraduate, M.ŞÖFÖROĞLU(Student), 2013

BOYACI İ. H., Yüzeyde güçlendirilmiş Raman spektroskopisi kullanılarak ağır metal tayinine yönelik yeni sistemlerin geliştirilmesi, Postgraduate, H.TÜMAY(Student), 2013

BOYACI İ. H., Biyosensör uygulamaları için peptid-ligandların geliştirilmesi, Doctorate, F.CEYDA(Student), 2012

BOYACI İ. H., Alkollü içeceklerde bulunan etanol ve metanolün raman spektroskopisi ile nicel tayini, Postgraduate, H.EFE(Student), 2012

BOYACI İ. H., Sıvı besiyerinde *Monascus purpureus*'un kırmızı pigment üretiminin yapay sinir ağları kullanılarak optimizasyonu ve pigmentin stabilitesinin belirlenmesi, Doctorate, S.DURAKLI(Student), 2012

BOYACI İ. H., Yüksek verimli immünomanyetik ayırım için manyetik nanopartiküllerin geliştirilmesi, Postgraduate, A.GÖKTUĞ(Student), 2012

BOYACI İ. H., Bakliyalarda fiziksel kalite kriterlerinin belirlenmesi amacıyla görüntü analiz sistemi geliştirilmesi, Postgraduate, Y.SERHAD(Student), 2011

BOYACI İ. H., Farklı yöntemlerle immobilize edilmiş  $\beta$ -galaktosidazın galaktooligosakkarit sentezi üzerine etkisi, Doctorate, U.AYKUT(Student), 2011

BOYACI İ. H., Gıda örneklerinde ve sulara *Escherichia coli* tayinine yönelik biyosensör geliştirilmesi, Postgraduate, Ö.TORUN(Student), 2011

BOYACI İ. H., Gıda uygulamalarına yönelik yüzeyde güçlendirilmiş raman spektroskopisini temel alan biyoanaliz yöntemlerinin geliştirilmesi, Postgraduate, B.GÜVEN(Student), 2011

TOPCU A., BOYACI İ. H., Yüzeyde güçlendirilmiş raman spektroskopisi (YGRS) tekniği ile proteaz aktivitesi tayini, Postgraduate, N.NUR(Student), 2011

BOYACI İ. H., Yarı-iletken nano parçacıklar kullanılarak fotoelektrokimyasal dna biyosensörlerinin hazırlanması, Doctorate, D.BAŞ(Student), 2011

BOYACI İ. H., Görüntü işleme teknolojisi ve yapay sinir ağlarının gıda ürünlerinde bazı kalite özelliklerinin belirlenmesinde kullanılması, Doctorate, H.MURAT(Student), 2010

BOYACI İ. H., Investigation of bioprocess parameters for glucose isomerase production by *Bacillus thermoantarcticus*, Postgraduate, I.HAYKIR(Student), 2007

BOYACI İ. H., Yapay sinir ağı tasarımı: Eğitim sürecinin optimizasyonu ve gıda mühendisliği alanında uygulanması, Postgraduate, K.KILIÇ(Student), 2007

BOYACI İ. H., Sulardaki *Escherichia coli*'nin tayini için paramanyetik küreler kullanarak immunolojik analiz yönteminin geliştirilmesi, Postgraduate, F.CEYDA(Student), 2006

BOYACI İ. H., Enzimatik reaksiyonlara ait kinetik katsayıların cevap yüzeyi metodu ve yapay sinir ağları kullanılarak saptanması, Postgraduate, D.BAŞ(Student), 2005

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

- I. **Effect of wax separation on macro- and micro-elements, phenolic compounds, pesticide residues, and toxic elements in propolis**  
Evrans E., Durakli-Velioglu S., Velioglu H. M., BOYACI İ. H.  
Food Science and Nutrition, vol.12, no.3, pp.1736-1748, 2024 (SCI-Expanded)
- II. **Evaluation of long- and short-term storage conditions and efficiency of a novel microencapsulated Salmonella phage cocktail for controlling Salmonella in chicken meat**

Sezer B., BOYACI İ. H.

Food Science and Biotechnology, vol.33, no.2, pp.475-483, 2024 (SCI-Expanded)

- III. **Optimization of concentration parameters for maximizing bacteriophage recovery value using response surface methodology: A case study on determining the optimal concentration parameters for Erwinia amylovora EA1T1.B3 phage**  
Güven K., Ekiz E., Evran E., Tayyarcı E. K., BOYACI İ. H.  
Plant Pathology, 2024 (SCI-Expanded)
- IV. **Effect of Sequential Treatment of Plasma Activated Water and Bacteriophage on Decontamination of Salmonella Typhimurium in Lettuce**  
Evran E., GÜNAYDIN DAŞAN B., Tayyarcı E. K., BOYACI İ. H.  
Food and Bioprocess Technology, 2024 (SCI-Expanded)
- V. **Estimation of time since deposition of semen stain on different fabric types using ATR-FTIR spectroscopy and chemometrics**  
Tastekin B., AKÇAN R., Evran E., TAMER U., ZENGİN H. Y., Yildirim M. S., BOYACI İ. H.  
Forensic science international, vol.354, pp.111885, 2024 (SCI-Expanded)
- VI. **Isolation, characterization, and application of bacteriophage cocktails for the biocontrol of Pseudomonas fluorescens group strains in whole and skimmed milk**  
Tayyarcı E. K., BOYACI İ. H.  
Brazilian Journal of Microbiology, vol.54, no.4, pp.3061-3071, 2023 (SCI-Expanded)
- VII. **Recent advances in phage therapy for pharmaceutical applications**  
Sarı-Acarca E. S., Evran E., Tayyarcı E. K., İLBASMIŞ TAMER S., TORT S., BOYACI İ. H., Acartürk F.  
Journal of Drug Delivery Science and Technology, vol.90, 2023 (SCI-Expanded)
- VIII. **A simple gradient centrifugation method for bacteria detection in skim milk**  
Rodoplu Solovchuk D., BOYACI İ. H., TAMER U., ŞAHİNER N., ÇETİN D.  
Microchemical Journal, vol.189, 2023 (SCI-Expanded)
- IX. **Improving microbial quality of wheat flour using ethanol-water mixture as a tempering solution**  
Ari Akin P., Tayyarcı E. K., Evran S., BOYACI İ. H.  
Journal of Cereal Science, vol.111, 2023 (SCI-Expanded)
- X. **Overcoming obstacles: Analysis of blood and semen stains washed with different chemicals with ATR-FTIR**  
YILDIRIM M. Ş., AKÇAN R., ARAS S., TAMER U., EVRAN E., TAŞTEKİN B., AYDOĞAN C., BOYACI İ. H.  
Forensic Science International, vol.344, 2023 (SCI-Expanded)
- XI. **Principles, Methods, and Real-Time Applications of Bacteriophage-Based Pathogen Detection**  
Panharwar S., Keerio H. A., İlhan H., BOYACI İ. H., TAMER U.  
Molecular Biotechnology, 2023 (SCI-Expanded)
- XII. **Rapid detection of common wheat flour addition to durum wheat flour and pasta using spectroscopic methods and chemometrics**  
Unuvar A., BOYACI İ. H., Yazar S., Koksıl H.  
Journal of Cereal Science, vol.109, 2023 (SCI-Expanded)
- XIII. **Cytotoxic, apoptotic and necrotic effects of starch coated copper nanoparticles on Capan 1 pancreatic cancer cells**  
İlbasmis-Tamer S., Turk M., Evran Ş., BOYACI İ. H., Ciftci H., TAMER U.  
Journal of Drug Delivery Science and Technology, vol.79, 2023 (SCI-Expanded)
- XIV. **An ECL sensor combined with a paper electrode for the determination of phenylalanine**  
TORUL H., Kayis E. C., BOYACI İ. H., TAMER U.  
ANALYST, vol.147, no.21, pp.4866-4875, 2022 (SCI-Expanded)
- XV. **Laser-induced breakdown spectroscopy as a reliable analytical method for classifying commercial cheese samples based on their cooking/ stretching process**  
Sezer B., ÖZTÜRK M., AYVAZ H., Apaydin H., BOYACI İ. H.  
FOOD CHEMISTRY, vol.390, 2022 (SCI-Expanded)
- XVI. **Paper-based electrochemiluminescence gas sensor**

- TORUL H., Durak M., BOYACI İ. H., TAMER U.  
ELECTROCHIMICA ACTA, vol.426, 2022 (SCI-Expanded)
- XVII. **Escherichia coli Enumeration in a Capillary-Driven Microfluidic Chip with SERS**  
Dogan U., Sucularli F., YILDIRIM E., ÇETİN D., SULUDERE Z., BOYACI İ. H., TAMER U.  
BIOSENSORS-BASEL, vol.12, no.9, 2022 (SCI-Expanded)
- XVIII. **Sorghum Flour Application in Bread: Technological Challenges and Opportunities**  
Ari Akin P., Demirkesen I., Bean S. R., Aramouni F., BOYACI İ. H.  
FOODS, vol.11, no.16, 2022 (SCI-Expanded)
- XIX. **The use of bacteriophage-based edible coatings for the biocontrol of Salmonella in strawberries**  
Sezer B., Tayyarcan E. K., BOYACI İ. H.  
FOOD CONTROL, vol.135, 2022 (SCI-Expanded)
- XX. **Identification of meat species in processed meat products by using protein based laser induced breakdown spectroscopy assay**  
Sezer B., Bjelak A., VELİOĞLU H. M., BOYACI İ. H.  
FOOD CHEMISTRY, vol.372, 2022 (SCI-Expanded)
- XXI. **Rapid discrimination of authenticity in wheat flour and pasta samples using LIBS**  
Sezer B., Unuvar A., BOYACI İ. H., Koksel H.  
JOURNAL OF CEREAL SCIENCE, vol.104, 2022 (SCI-Expanded)
- XXII. **Applications of Bacteriophage Cocktails to Reduce Salmonella Contamination in Poultry Farms**  
Evrans S., Tayyarcan E. K., Acar-Soykut E., BOYACI İ. H.  
FOOD AND ENVIRONMENTAL VIROLOGY, vol.14, no.1, 2022 (SCI-Expanded)
- XXIII. **Surface-enhanced Raman scattering-based detection of plasmin activity by specific peptide substrate**  
Yazgan N. N., Bulat T., Topcu A., Dudak F. C., Boyaci I. H., Tamer U.  
FOOD CHEMISTRY, vol.372, 2022 (SCI-Expanded)
- XXIV. **The use of bacteriophage cocktails to reduce Salmonella Enteritidis in hummus**  
Tayyarcan E. K., Evran S., Akin P. A., SOYKUT E. A., BOYACI İ. H.  
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.154, 2022 (SCI-Expanded)
- XXV. **Investigation of phage and molasses interactions for the biocontrol of E. coli O157:H7**  
Evrans S., Tayyarcan E. K., Acar-Soykut E., GÜVEN B., DURAKLI VELİOĞLU S., BOYACI İ. H.  
CANADIAN JOURNAL OF MICROBIOLOGY, vol.68, no.1, pp.55-65, 2022 (SCI-Expanded)
- XXVI. **Replacement of antibodies with bacteriophages in lateral flow assay of Salmonella Enteritidis**  
İLHAN H., Tayyarcan E. K., ÇAĞLAYAN M. G., BOYACI İ. H., SAĞLAM N., TAMER U.  
BIOSENSORS & BIOELECTRONICS, vol.189, 2021 (SCI-Expanded)
- XXVII. **A new and facile route to prepare gold nanoparticle clusters on anodic aluminium oxide as a SERS substrate**  
Tezcan T., BOYACI İ. H.  
TALANTA, vol.232, 2021 (SCI-Expanded)
- XXVIII. **Use of tea fibers as a source of dietary fiber in wheat flour and bread**  
Ari Akin P., Tayfun K. E., TAMER U., BOYACI İ. H.  
CEREAL CHEMISTRY, vol.98, no.5, pp.1049-1058, 2021 (SCI-Expanded)
- XXIX. **Comparison of different calibration techniques of laser induced breakdown spectroscopy in bakery products: on NaCl measurement**  
Bilge G., ESELLER K. E., Berberoglu H., Sezer B., TAMER U., BOYACI İ. H.  
JOURNAL OF THE EUROPEAN OPTICAL SOCIETY-RAPID PUBLICATIONS, vol.17, no.1, 2021 (SCI-Expanded)
- XXX. **Disposable electrochemical flow cell with paper-based electrode assemble**  
TORUL H., GÜMÜŞTAŞ M., Urguplu B., UZUNOĞLU A., BOYACI İ. H., ÇELİKKAN H., TAMER U.  
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.891, 2021 (SCI-Expanded)
- XXXI. **Analysis of corn and sorghum flour mixtures using laser-induced breakdown spectroscopy**  
Akin P. A., Sezer B., Bean S. R., Peiris K., Tilley M., Apaydin H., BOYACI İ. H.  
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.101, no.3, pp.1076-1084, 2021 (SCI-Expanded)
- XXXII. **Protein based evaluation of meat species by using laser induced breakdown spectroscopy**

- Sezer B., Bjelak A., VELİOĞLU H. M., BOYACI İ. H.  
MEAT SCIENCE, vol.172, 2021 (SCI-Expanded)
- XXXIII. **Determination of milk fat authenticity in ultra-filtered white cheese by using Raman spectroscopy with multivariate data analysis**  
Genis D. O., Sezer B., Durna S., BOYACI İ. H.  
FOOD CHEMISTRY, vol.336, 2021 (SCI-Expanded)
- XXXIV. **Determination of green pea and spinach adulteration in pistachio nuts using NIR spectroscopy**  
GENİŞ H. E., Durna S., BOYACI İ. H.  
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.136, 2021 (SCI-Expanded)
- XXXV. **Dual Responsive Disposable Electrode for the Enumeration of Escherichia coli in Whole Blood**  
Panhwar S., İLHAN H., Hassan S. S., Zengin A., BOYACI İ. H., TAMER U.  
ELECTROANALYSIS, vol.32, no.10, pp.2244-2252, 2020 (SCI-Expanded)
- XXXVI. **Discrimination of milk species using Raman spectroscopy coupled with partial least squares discriminant analysis in raw and pasteurized milk**  
Yazgan N. N., Genis H. E., BULAT T., TOPCU A., Durna S., Yetisemiyen A., BOYACI İ. H.  
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.100, no.13, pp.4756-4765, 2020 (SCI-Expanded)
- XXXVII. **Multiplex enumeration of Escherichia coli and Salmonella enteritidis in a passive capillary microfluidic chip**  
Dogan U., Kasap E. N., Sucularli F., YILDIRIM E., TAMER U., ÇETİN D., SULUDERE Z., BOYACI İ. H., ERTAŞ N.  
ANALYTICAL METHODS, vol.12, no.30, pp.3788-3796, 2020 (SCI-Expanded)
- XXXVIII. **Nanoparticle-assisted pyrrolidonyl arylamidase assay for a culture-free Group A Streptococcus pyogenes detection with image analysis**  
Eryilmaz M., TAMER U., BOYACI İ. H.  
TALANTA, vol.212, 2020 (SCI-Expanded)
- XXXIX. **Utilization potential of Glutograph in wheat breeding programs and the influence of genotype and environment on bread wheat quality**  
Evlice A. K., Pehlivan A., Sanal T., Salantur A., Kilic G., Dugan G., BOYACI İ. H., KÖKSEL H.  
CEREAL CHEMISTRY, vol.97, no.3, pp.634-641, 2020 (SCI-Expanded)
- XL. **Development of a nanoparticle-based gradient method for simple and fast quantification of bacteria-nanoparticle conjugates**  
Rodoplu D., BOYACI İ. H., TAMER U., SULUDERE Z.  
JOURNAL OF NANOPARTICLE RESEARCH, vol.22, no.5, 2020 (SCI-Expanded)
- XLI. **Weathering performance of waterborne acrylic coating systems on flat-pressed wood-plastic composites**  
DURMAZ S., ÖZGENÇ Ö., AVCI E., BOYACI İ. H.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.137, no.14, 2020 (SCI-Expanded)
- XLII. **Multi-elemental analysis of flour types and breads by using laser induced breakdown spectroscopy**  
Akin P. A., Sezer B., Sanal T., Apaydin H., KÖKSEL H., BOYACI İ. H.  
JOURNAL OF CEREAL SCIENCE, vol.92, 2020 (SCI-Expanded)
- XLIII. **Evaluation of the weathering resistance of waterborne acrylic- and alkyd-based coatings containing HALS, UV absorber, and bark extracts on wood surfaces**  
ÖZGENÇ Ö., DURMAZ S., ŞAHİN SEVGİLİ S., BOYACI İ. H.  
JOURNAL OF COATINGS TECHNOLOGY AND RESEARCH, vol.17, no.2, pp.461-475, 2020 (SCI-Expanded)
- XLIV. **Development of synchronous fluorescence method for identification of cow, goat, ewe and buffalo milk species**  
Genis D. O., Sezer B., Bilge G., Durna S., BOYACI İ. H.  
FOOD CONTROL, vol.108, 2020 (SCI-Expanded)
- XLV. **Development of a green fluorescence protein (GFP)-based bioassay for detection of antibiotics and its application in milk**  
KARAÇAĞLAR N. N., TOPCU A., DUDAK ŞEKER F. C., BOYACI İ. H.  
JOURNAL OF FOOD SCIENCE, vol.85, no.2, pp.500-509, 2020 (SCI-Expanded)

- XLVI. **Determination of yolk:white ratio of egg using SDS-PAGE**  
Uysal R. S., Acar-Soykut E., BOYACI İ. H.  
FOOD SCIENCE AND BIOTECHNOLOGY, vol.29, no.2, pp.179-186, 2020 (SCI-Expanded)
- XLVII. **Immunomagnetic separation and Listeria monocytogenes detection with surface-enhanced Raman scattering**  
Akcinar H. Y., ASLIM B., TORUL H., GÜVEN B., Zengin A., SULUDERE Z., BOYACI İ. H., TAMER U.  
TURKISH JOURNAL OF MEDICAL SCIENCES, vol.50, no.4, pp.1157-1167, 2020 (SCI-Expanded)
- XLVIII. **Laser induced breakdown spectroscopy based diffusion modelling in cheese matrix**  
Sezer B., Bilge G., ESELLER K. E., Berberoglu H., BOYACI İ. H.  
JOURNAL OF FOOD ENGINEERING, vol.263, pp.320-325, 2019 (SCI-Expanded)
- XLIX. **Mixed monolayer decorated SPR sensing surface for thrombin detection**  
Sadik D. A., BOYACI İ. H., MUTLU M.  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.176, 2019 (SCI-Expanded)
- L. **Authentication of liquid egg composition using ATR-FTIR and NIR spectroscopy in combination with PCA**  
Uysal R. S., BOYACI İ. H.  
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, 2019 (SCI-Expanded)
- LI. **Microencapsulation of phages to analyze their demeanor in physiological conditions**  
SOYKUT E. A., Tayyarcan E. K., Evran S., BOYACI İ. H., ÇAKIR İ., Khaaladi M., Fattouch S.  
FOLIA MICROBIOLOGICA, vol.64, no.6, pp.751-763, 2019 (SCI-Expanded)
- LII. **Determination of pasteurization treatment of liquid whole egg by measuring physical and rheological properties of cake cream**  
Uysal R. S., BOYACI İ. H., ŞÜMNÜ S. G.  
JOURNAL OF FOOD PROCESS ENGINEERING, vol.42, no.6, 2019 (SCI-Expanded)
- LIII. **Investigation of different interactions between Staphylococcus aureus phages and pomegranate peel, grape seed, and black cumin extracts**  
Tayyarcan E. K., SOYKUT E. A., Yilmaz O. M., BOYACI İ. H., Khaaladi M., Fattouch S.  
JOURNAL OF FOOD SAFETY, vol.39, no.5, 2019 (SCI-Expanded)
- LIV. **Fast fluorometric enumeration of E. coli using passive chip**  
Kasap E. N., Dogan U., Cogun F., YILDIRIM E., BOYACI İ. H., ÇETİN D., SULUDERE Z., TAMER U., ERTAŞ N.  
JOURNAL OF MICROBIOLOGICAL METHODS, vol.164, 2019 (SCI-Expanded)
- LV. **The coupling of immunomagnetic enrichment of bacteria with paper-based platform**  
İLHAN H., GÜVEN B., Dogan U., Torul H., Evran S., Cetin D., Suludere Z., SAĞLAM N., BOYACI İ. H., Tamer U.  
TALANTA, vol.201, pp.245-252, 2019 (SCI-Expanded)
- LVI. **Identification of cow, buffalo, goat and ewe milk species in fermented dairy products using synchronous fluorescence spectroscopy**  
Genis D. O., Bilge G., Sezer B., Durna S., BOYACI İ. H.  
FOOD CHEMISTRY, vol.284, pp.60-66, 2019 (SCI-Expanded)
- LVII. **SERS-based rapid assay for sensitive detection of Group A Streptococcus by evaluation of the swab sampling technique**  
Eryilmaz M., SOYKUT E. A., ÇETİN D., BOYACI İ. H., SULUDERE Z., TAMER U.  
ANALYST, vol.144, no.11, pp.3573-3580, 2019 (SCI-Expanded)
- LVIII. **Determination of liquid egg composition using attenuated total reflectance Fourier transform infrared spectroscopy and chemometrics**  
Uysal R. S., Yilmaz O. M., BOYACI İ. H.  
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.99, no.7, pp.3572-3577, 2019 (SCI-Expanded)
- LIX. **Effects of heat-treated liquid whole egg on cake batter rheology and the quality of baked cake**  
Uysal R. S., ŞÜMNÜ S. G., Boyaci I. H.  
JOURNAL OF FOOD PROCESS ENGINEERING, vol.42, no.2, 2019 (SCI-Expanded)
- LX. **Detection of Pistacia vera adulteration by using laser induced breakdown spectroscopy**  
Sezer B., Apaydin H., Bilge G., BOYACI İ. H.

JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.99, no.5, pp.2236-2242, 2019 (SCI-Expanded)

- LXI. **Multiparametric analysis of cheese using single spectrum of laser-induced breakdown spectroscopy**  
AYVAZ H., Sezer B., Dogan M. A., Bilge G., Atan M., BOYACI İ. H.  
INTERNATIONAL DAIRY JOURNAL, vol.90, pp.72-78, 2019 (SCI-Expanded)
- LXII. **Raman spectroscopy coupled with chemometric methods for the discrimination of foreign fats and oils in cream and yogurt**  
Karacaglar N. N., BULAT T., BOYACI İ. H., TOPCU A.  
JOURNAL OF FOOD AND DRUG ANALYSIS, vol.27, no.1, pp.101-110, 2019 (SCI-Expanded)
- LXIII. **Coffee arabica adulteration: Detection of wheat, corn and chickpea**  
Sezer B., Apaydin H., Bilge G., BOYACI İ. H.  
FOOD CHEMISTRY, vol.264, pp.142-148, 2018 (SCI-Expanded)
- LXIV. **A Raman-spectroscopy-based approach for detection and discrimination of Streptococcus thermophilus and Lactobacillus bulgaricus phages at low titer in raw milk**  
Tayyarcan E. K., ACAR SOYKUT E., BOYACI İ. H.  
FOLIA MICROBIOLOGICA, vol.63, no.5, pp.627-636, 2018 (SCI-Expanded)
- LXV. **Mixed-monolayer of N-hydroxysuccinimide-terminated cross-linker and short alkanethiol to improve the efficiency of biomolecule binding for biosensing**  
Sadik D. A., Eksi-Kocak H., ERTAŞ G., BOYACI İ. H., MUTLU M.  
SURFACE AND INTERFACE ANALYSIS, vol.50, no.9, pp.866-878, 2018 (SCI-Expanded)
- LXVI. **Performance evaluation of laser induced breakdown spectroscopy in the measurement of liquid and solid samples**  
Bilge G., Sezer B., BOYACI İ. H., ESELLER K. E., BERBEROĞLU H.  
SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.145, pp.115-121, 2018 (SCI-Expanded)
- LXVII. **Identification of milk fraud using laser-induced breakdown spectroscopy (LIBS)**  
Sezer B., Durna S., Bilge G., BERKKAN A., Yetisemiyen A., BOYACI İ. H.  
INTERNATIONAL DAIRY JOURNAL, vol.81, pp.1-7, 2018 (SCI-Expanded)
- LXVIII. **Chemometric Evaluation of Discrimination of Aromatic Plants by Using NIRS, LIBS**  
Ercioglu E., VELİOĞLU H. M., BOYACI İ. H.  
FOOD ANALYTICAL METHODS, vol.11, no.6, pp.1656-1667, 2018 (SCI-Expanded)
- LXIX. **Characterization of fossil Sequoioxylon wood using analytical instrumental techniques**  
ÖZGENÇ Ö., DURMAZ S., SERDAR B., BOYACI İ. H., Eksi-Kocak H., ÖZTÜRK M.  
VIBRATIONAL SPECTROSCOPY, vol.96, pp.10-18, 2018 (SCI-Expanded)
- LXX. **Alkaline phosphatase labeled SERS active sandwich immunoassay for detection of Escherichia coli**  
BOZKURT A. G., Buyukgoz G. G., Soforoglu M., TAMER U., SULUDERE Z., BOYACI İ. H.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.194, pp.8-13, 2018 (SCI-Expanded)
- LXXI. **Identification of offal adulteration in beef by laser induced breakdown spectroscopy (LIBS)**  
VELİOĞLU H. M., Sezer B., Bilge G., Baytur S. E., BOYACI İ. H.  
MEAT SCIENCE, vol.138, pp.28-33, 2018 (SCI-Expanded)
- LXXII. **Assessment of laser induced breakdown spectroscopy as a tool for analysis of butter adulteration**  
TEMİZ H. T., Sezer B., BERKKAN A., TAMER U., BOYACI İ. H.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.67, pp.48-54, 2018 (SCI-Expanded)
- LXXIII. **Quantification and spatial distribution of salicylic acid in film tablets using FT-Raman mapping with multivariate curve resolution**  
Eksi-Kocak H., TAMER S. İ., YILMAZ Ş., Eryilmaz M., Boyaci I. H., TAMER U.  
ASIAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.13, no.2, pp.155-162, 2018 (SCI-Expanded)
- LXXIV. **Paper based lateral flow immunoassay for the enumeration of Escherichia coli in urine**  
Gumustas A., ÇAĞLAYAN M. G., Eryilmaz M., SULUDERE Z., ACAR SOYKUT E., USLU B., BOYACI İ. H., TAMER U.  
ANALYTICAL METHODS, vol.10, no.10, pp.1213-1218, 2018 (SCI-Expanded)
- LXXV. **Surface decontamination of eggshells by using non-thermal atmospheric plasma**  
GÜNAYDIN DAŞAN B., Yildirim T., BOYACI İ. H.

- INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY, vol.266, pp.267-273, 2018 (SCI-Expanded)
- LXXVI. **A rapid tool for determination of titanium dioxide content in white chickpea samples**  
Sezer B., Bilge G., BERKCAN A., TAMER U., BOYACI İ. H.  
FOOD CHEMISTRY, vol.240, pp.84-89, 2018 (SCI-Expanded)
- LXXVII. **Effect of Cold Atmospheric Plasma on Inactivation of Escherichia coli and Physicochemical Properties of Apple, Orange, Tomato Juices, and Sour Cherry Nectar**  
GÜNAYDIN DAŞAN B., BOYACI İ. H.  
FOOD AND BIOPROCESS TECHNOLOGY, vol.11, no.2, pp.334-343, 2018 (SCI-Expanded)
- LXXVIII. **Determination of terpenoid contents of aromatic plants using NIRS**  
Ercioglu E., VELİOĞLU H. M., BOYACI İ. H.  
TALANTA, vol.178, pp.716-721, 2018 (SCI-Expanded)
- LXXIX. **A simple and fast method for discrimination of phage and antibiotic contaminants in raw milk by using Raman spectroscopy**  
ACAR SOYKUT E., Tayyarcan E. K., BOYACI İ. H.  
JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, vol.55, no.1, pp.82-89, 2018 (SCI-Expanded)
- LXXX. **ATR-FTIR SPECTROSCOPIC ANALYSIS OF THERMALLY MODIFIED WOOD DEGRADED BY ROT FUNGI**  
ÖZGENÇ Ö., DURMAZ S., BOYACI İ. H., Eksi-Kocak H.  
DREWNO, vol.61, no.201, pp.91-105, 2018 (SCI-Expanded)
- LXXXI. **Detection and quantification of a toxic salt substitute (LiCl) by using laser induced breakdown spectroscopy (LISS)**  
Sezer B., VELİOĞLU H. M., Bilge G., BERKCAN A., Ozdinc N., TAMER U., BOYACI İ. H.  
MEAT SCIENCE, vol.135, pp.123-128, 2018 (SCI-Expanded)
- LXXXII. **Capabilities and limitations of LIBS in food analysis**  
Sezer B., Bilge G., BOYACI İ. H.  
TRAC-TRENDS IN ANALYTICAL CHEMISTRY, vol.97, pp.345-353, 2017 (SCI-Expanded)
- LXXXIII. **A novel method for ash analysis in wheat milling fractions by using laser-induced breakdown spectroscopy**  
Sezer B., Bilge G., Sanal T., KÖKSEL H., BOYACI İ. H.  
JOURNAL OF CEREAL SCIENCE, vol.78, pp.33-38, 2017 (SCI-Expanded)
- LXXXIV. **Synchronous fluorescence spectroscopy for determination of tahini adulteration**  
TEMİZ H. T., TAMER U., BERKCAN A., BOYACI İ. H.  
TALANTA, vol.167, pp.557-562, 2017 (SCI-Expanded)
- LXXXV. **Rapid quantification of total protein with surface-enhanced Raman spectroscopy using o-phthalaldehyde**  
Eryilmaz M., Zengin A., BOYACI İ. H., TAMER U.  
JOURNAL OF RAMAN SPECTROSCOPY, vol.48, no.5, pp.653-658, 2017 (SCI-Expanded)
- LXXXVI. **Rapid discrimination between buffalo and cow milk and detection of adulteration of buffalo milk with cow milk using synchronous fluorescence spectroscopy in combination with multivariate methods**  
DURAKLI VELİOĞLU S., Ercioglu E., BOYACI İ. H.  
JOURNAL OF DAIRY RESEARCH, vol.84, no.2, pp.214-219, 2017 (SCI-Expanded)
- LXXXVII. **Novel Spectroscopic Method for Determination and Quantification of Saffron Adulteration**  
Er S. V., Eksi-Kocak H., YETİM H., BOYACI İ. H.  
FOOD ANALYTICAL METHODS, vol.10, no.5, pp.1547-1555, 2017 (SCI-Expanded)
- LXXXVIII. **Use of Raman spectroscopy for determining erucic acid content in canola oil**  
Velioglu S. D., TEMİZ H. T., Ercioglu E., Velioglu H. M., TOPCU A., BOYACI İ. H.  
FOOD CHEMISTRY, vol.221, pp.87-90, 2017 (SCI-Expanded)
- LXXXIX. **Nonthermal plasma treatment of Aspergillus spp. spores on hazelnuts in an atmospheric pressure fluidized bed plasma system: Impact of process parameters and surveillance of the residual viability of spores**  
GÜNAYDIN DAŞAN B., BOYACI İ. H., MUTLU M.



JOURNAL OF FOOD ENGINEERING, vol.196, pp.139-149, 2017 (SCI-Expanded)

- XC. **Effects of heat treatment parameters on liquid whole egg proteins**  
Uysal R. S., BOYACI İ. H., ACAR SOYKUT E., ERTAŞ N.  
FOOD CHEMISTRY, vol.216, pp.201-208, 2017 (SCI-Expanded)
- XCI. **Surface-enhanced Raman spectroscopy combined with gold nanorods for the simultaneous quantification of nitramine energetic materials**  
GÜVEN B., Eryilmaz M., Uzer A., BOYACI İ. H., Tamer U., Apak R.  
RSC ADVANCES, vol.7, no.59, pp.37039-37047, 2017 (SCI-Expanded)
- XCII. **Determination of chemical changes in heat-treated wood using ATR-FTIR and FT Raman spectrometry**  
ÖZGENÇ Ö., Durmaz S., BOYACI İ. H., Eksi-Kocak H.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.171, pp.395-400, 2017 (SCI-Expanded)
- XCIII. **The comparison of antioxidant capacity and cytotoxic, anticarcinogenic, and genotoxic effects of Fe@Au nanosphere magnetic nanoparticles**  
YEĞENOĞLU H., ASLIM B., GÜVEN B., ZENGİN A., BOYACI İ. H., SULUDERE Z., TAMER U.  
TURKISH JOURNAL OF BIOLOGY, vol.41, no.2, pp.302-313, 2017 (SCI-Expanded)
- XCIV. **Laser-Induced Breakdown Spectroscopy Based Protein Assay for Cereal Samples**  
Sezer B., Bilge G., BOYACI İ. H.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.64, no.49, pp.9459-9463, 2016 (SCI-Expanded)
- XCV. **Determination of whey adulteration in milk powder by using laser induced breakdown spectroscopy**  
Bilge G., Sezer B., Eseller K. E., Berberoglu H., TOPCU A., BOYACI İ. H.  
FOOD CHEMISTRY, vol.212, pp.183-188, 2016 (SCI-Expanded)
- XCVI. **Inactivation of aflatoxigenic fungi (Aspergillus spp.) on granular food model, maize, in an atmospheric pressure fluidized bed plasma system**  
GÜNAYDIN DAŞAN B., BOYACI İ. H., MUTLU M.  
FOOD CONTROL, vol.70, pp.1-8, 2016 (SCI-Expanded)
- XCVII. **Surface-enhanced Raman probe for rapid nanoextraction and detection of erythropoietin in urine**  
SELBES Y. S., ÇAĞLAYAN M. G., ERYILMAZ M., BOYACI İ. H., SAĞLAM N., BAŞARAN A. A., Tamer U.  
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.408, no.29, pp.8447-8456, 2016 (SCI-Expanded)
- XCVIII. **Ash analysis of flour sample by using laser-induced breakdown spectroscopy**  
BILGE G., SEZER B., Eseller K. E., Berberoglu H., KÖKSEL H., BOYACI İ. H.  
SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.124, pp.74-78, 2016 (SCI-Expanded)
- XCIX. **Determination of Ca addition to the wheat flour by using laser-induced breakdown spectroscopy (LIBS)**  
Bilge G., Sezer B., ESELLER K. E., BERBEROĞLU H., KÖKSEL H., BOYACI İ. H.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.242, no.10, pp.1685-1692, 2016 (SCI-Expanded)
- C. **Rapid detection of bacteria based on homogenous immunoassay using chitosan modified quantum dots**  
Dogan U., Kasap E., ÇETİN D., SULUDERE Z., BOYACI İ. H., TÜRKYILMAZ C., ERTAŞ N., TAMER U.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.233, pp.369-378, 2016 (SCI-Expanded)
- CI. **Identification of meat species by using laser-induced breakdown spectroscopy**  
Bilge G., VELİOĞLU H. M., Sezer B., ESELLER K. E., BOYACI İ. H.  
MEAT SCIENCE, vol.119, pp.118-122, 2016 (SCI-Expanded)
- CII. **Examination of the chemical changes in spruce wood degraded by brown-rot fungi using FT-IR and FT-Raman spectroscopy**  
Durmaz S., ÖZGENÇ Ö., BOYACI İ. H., YILDIZ Ü. C., Erisir E.  
VIBRATIONAL SPECTROSCOPY, vol.85, pp.202-207, 2016 (SCI-Expanded)
- CIII. **Raman Spectroscopic Barcode Use for Differentiation of Vegetable Oils and Determination of Their Major Fatty Acid Composition**  
Velioglu S. D., Ercioglu E., TEMİZ H. T., Velioglu H. M., TOPCU A., BOYACI İ. H.

- JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY, vol.93, no.5, pp.627-635, 2016 (SCI-Expanded)
- CIV. **Spectroscopic fingerprint of tea varieties by surface enhanced Raman spectroscopy**  
Buyukgoz G. G., Soforoglu M., BAŞARAN AKGÜL N., BOYACI İ. H.  
JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, vol.53, no.3, pp.1709-1716, 2016 (SCI-Expanded)
- CV. **Detection of green pea adulteration in pistachio nut granules by using Raman hyperspectral imaging**  
Eksi-Kocak H., MENTEŞ YILMAZ Ö., BOYACI İ. H.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.242, no.2, pp.271-277, 2016 (SCI-Expanded)
- CVI. **Decontamination of Aspergillus flavus and Aspergillus parasiticus spores on hazelnuts via atmospheric pressure fluidized bed plasma reactor**  
GÜNAYDIN DAŞAN B., MUTLU M., BOYACI İ. H.  
INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY, vol.216, pp.50-59, 2016 (SCI-Expanded)
- CVII. **Synthesis, characterization and in vitro antimicrobial activity of a new blue fluorescent Cu(II) metal complex of bis-1,8-naphthalimide**  
Yordanova S., TEMİZ H. T., BOYACI İ. H., Stoyanov S., Vasileva-Tonkova E., Asiri A., Grabchev I.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1101, pp.50-56, 2015 (SCI-Expanded)
- CVIII. **Paper membrane-based SERS platform for the determination of glucose in blood samples**  
TORUL H., ÇİFTÇİ H., ÇETİN D., SULUDERE Z., BOYACI İ. H., TAMER U.  
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.407, no.27, pp.8243-8251, 2015 (SCI-Expanded)
- CIX. **Analysis of bakery products by laser-induced breakdown spectroscopy**  
BILGE G., BOYACI İ. H., Eseller K. E., Tamer U., ÇAKIR S.  
FOOD CHEMISTRY, vol.181, pp.186-190, 2015 (SCI-Expanded)
- CX. **Development of rolling circle amplification based surface-enhanced Raman spectroscopy method for 35S promoter gene detection**  
GÜVEN B., BOYACI İ. H., Tamer U., ACAR-SOYKUT E., Dogan U.  
TALANTA, vol.136, pp.68-74, 2015 (SCI-Expanded)
- CXI. **Differentiation of fresh and frozen-thawed fish samples using Raman spectroscopy coupled with chemometric analysis**  
VELİOĞLU H. M., TEMİZ H. T., BOYACI İ. H.  
FOOD CHEMISTRY, vol.172, pp.283-290, 2015 (SCI-Expanded)
- CXII. **Spectroscopic detection of aspartame in soft drinks by surface-enhanced Raman spectroscopy**  
Buyukgoz G. G., BOZKURT A. G., BAŞARAN AKGÜL N., TAMER U., BOYACI İ. H.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.240, no.3, pp.567-575, 2015 (SCI-Expanded)
- CXIII. **Rapid analysis of glucose, fructose and sucrose contents of commercial soft drinks using Raman spectroscopy**  
ILASLAN K., BOYACI İ. H., TOPCU A.  
FOOD CONTROL, vol.48, pp.56-61, 2015 (SCI-Expanded)
- CXIV. **Fabrication of an Electrochemical E. coli Biosensor in Biowells Using Bimetallic Nanoparticle-Labelled Antibodies**  
Eksi H., Guzel R., GÜVEN B., BOYACI İ. H., Solak A. O.  
ELECTROANALYSIS, vol.27, no.2, pp.343-352, 2015 (SCI-Expanded)
- CXV. **Synthesis and spectral characterization of a new PPA dendrimer modified with 4-bromo-1,8-naphthalimide and in vitro antimicrobial activity of its Cu(II) and Zn(II) metal complexes**  
Staneva D., Vasileva-Tonkova E., Makki M. S. I., Sobahi T. R., Abdel-Rahman R. M., BOYACI İ. H., Asiri A. M., Grabchev I.  
TETRAHEDRON, vol.71, no.7, pp.1080-1087, 2015 (SCI-Expanded)
- CXVI. **Designing multilayered nanoplatfoms for SERS-based detection of genetically modified organisms**  
Uluok S., GÜVEN B., EKSI H., Ustundag Z., Tamer U., BOYACI İ. H.  
JOURNAL OF NANOPARTICLE RESEARCH, vol.17, no.1, 2015 (SCI-Expanded)
- CXVII. **Quantitative Characterization of Magnetic Mobility of Nanoparticle in Solution-Based Condition**  
RODOPLU D., BOYACI İ. H., BOZKURT A. G., EKSI H., Zengin A., Tamer U., AYDOĞAN N., ÖZCAN Ş., Tugcu-Demiroz F.  
CURRENT PHARMACEUTICAL DESIGN, vol.21, no.37, pp.5389-5400, 2015 (SCI-Expanded)

- CXVIII. **Dispersive and FT-Raman spectroscopic methods in food analysis**  
BOYACI İ. H., TEMİZ H. T., Genis H. E., SOYKUT E. A., Yazgan N. N., GÜVEN B., UYSAL R. S., Bozkurt A. G., ILASLAN K., TORUN O., et al.  
RSC ADVANCES, vol.5, no.70, pp.56606-56624, 2015 (SCI-Expanded)
- CXIX. **High-yield aqueous synthesis of multi-branched iron oxide core-gold shell nanoparticles: SERS substrate for immobilization and magnetic separation of bacteria**  
Tamer U., Onay A., Ciftci H., Bozkurt A. G., Cetin D., Suludere Z., BOYACI İ. H., DANIEL P., LAGARDE F., YAACOUB N., et al.  
JOURNAL OF NANOPARTICLE RESEARCH, vol.16, no.10, 2014 (SCI-Expanded)
- CXX. **Anisotropic core-shell Fe<sub>3</sub>O<sub>4</sub>@Au magnetic nanoparticles and the effect of the immunomagnetic separation volume on the capture efficiency**  
Zengin A., BOZKURT A., BOYACI İ. H., ÖZCAN Ş., DANIEL P., LAGARDE F., GIBAUD A., Cetin D., Suludere Z., GUTTMANN P., et al.  
PURE AND APPLIED CHEMISTRY, vol.86, no.6, pp.967-978, 2014 (SCI-Expanded)
- CXXI. **A rapid method for determination of the origin of meat and meat products based on the extracted fat spectra by using of Raman spectroscopy and chemometric method**  
BOYACI İ. H., UYSAL R. S., TEMİZ T., SHENDI E. G., YADEGARI R. J., RISHKAN M. M., Velioglu H. M., Tamer U., OZAY D. S., VURAL H.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.238, no.5, pp.845-852, 2014 (SCI-Expanded)
- CXXII. **A novel method for discrimination of beef and horsemeat using Raman spectroscopy**  
BOYACI İ. H., TEMİZ H. T., UYSAL R. S., Velioglu H. M., YADEGARI R. J., RISHKAN M. M.  
FOOD CHEMISTRY, vol.148, pp.37-41, 2014 (SCI-Expanded)
- CXXIII. **Peptide-Based Surface Plasmon Resonance Biosensor for Detection of Staphylococcal Enterotoxin B**  
DUDAK F. C., BOYACI İ. H.  
FOOD ANALYTICAL METHODS, vol.7, no.2, pp.506-511, 2014 (SCI-Expanded)
- CXXIV. **Glucose determination based on a two component self-assembled monolayer functionalized surfaceenhanced Raman spectroscopy (SERS) probe**  
Torul H., Ciftci H., Dudak F. C., Adiguzel Y., KÜLAH H., BOYACI İ. H., Tamer U.  
ANALYTICAL METHODS, vol.6, no.14, pp.5097-5104, 2014 (SCI-Expanded)
- CXXV. **SERS-based direct and sandwich assay methods for mir-21 detection**  
GÜVEN B., Dudak F. C., BOYACI İ. H., Tamer U., Ozsoz M.  
ANALYST, vol.139, no.5, pp.1141-1147, 2014 (SCI-Expanded)
- CXXVI. **The investigation of the secondary structure propensities and free-energy landscapes of peptide ligands by replica exchange molecular dynamics simulations**  
Demir K., Kilic N., DUDAK F. C., BOYACI İ. H., YAŞAR F.  
MOLECULAR SIMULATION, vol.40, no.13, pp.1015-1025, 2014 (SCI-Expanded)
- CXXVII. **Monitoring multiple components in vinegar fermentation using Raman spectroscopy**  
Uysal R. S., Soykut E. A., BOYACI İ. H., TOPCU A.  
FOOD CHEMISTRY, vol.141, no.4, pp.4333-4343, 2013 (SCI-Expanded)
- CXXVIII. **Determination of butter adulteration with margarine using Raman spectroscopy**  
Uysal R. S., BOYACI İ. H., GENİŞ H. E., TAMER U.  
FOOD CHEMISTRY, vol.141, no.4, pp.4397-4403, 2013 (SCI-Expanded)
- CXXIX. **Surface enhanced Raman spectroscopy as a new spectral technique for quantitative detection of metal ions**  
TEMİZ H. T., BOYACI İ. H., Grabchev I., TAMER U.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.116, pp.339-347, 2013 (SCI-Expanded)
- CXXX. **Optimizing a Submerged Monascus cultivation for Production of Red Pigment with Bug Damaged Wheat using Artificial Neural Networks**  
Durakli-Velioglu S., BOYACI İ. H., Simsek O., Gumus T.  
FOOD SCIENCE AND BIOTECHNOLOGY, vol.22, no.6, pp.1639-1648, 2013 (SCI-Expanded)

- CXXXI. **Rapid detection of fat adulteration in bakery products using Raman and near-infrared spectroscopies**  
ÜÇÜNCÜOĞLU D., İlaslan K., BOYACI İ. H., SİVRİ ÖZAY D.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.237, no.5, pp.703-710, 2013 (SCI-Expanded)
- CXXXII. **A novel glucose biosensor platform based on Ag@AuNPs modified graphene oxide nanocomposite and SERS application**  
Gupta V. K., Atar N., YOLA M. L., Eryilmaz M., TORUL H., TAMER U., BOYACI İ. H., ÜSTÜNDAĞ Z.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.406, pp.231-237, 2013 (SCI-Expanded)
- CXXXIII. **Magnetic gold nanoparticles in SERS-based sandwich immunoassay for antigen detection by well oriented antibodies**  
Baniukevic J., BOYACI İ. H., BOZKURT A. G., TAMER U., Ramanavicius A., Ramanaviciene A.  
BIOSENSORS & BIOELECTRONICS, vol.43, pp.281-288, 2013 (SCI-Expanded)
- CXXXIV. **Gold-Coated Iron Composite Nanospheres Targeted the Detection of Escherichia coli**  
TAMER U., ÇETİN D., SULUDERE Z., BOYACI İ. H., TEMİZ H. T., Yegenoglu H., Daniel P., DİNÇER İ., Elerman Y.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.14, no.3, pp.6223-6240, 2013 (SCI-Expanded)
- CXXXV. **Rapid analysis of sugars in honey by processing Raman spectrum using chemometric methods and artificial neural networks**  
Ozbalci B., BOYACI İ. H., TOPCU A., KADILAR C., Tamer U.  
FOOD CHEMISTRY, vol.136, pp.1444-1452, 2013 (SCI-Expanded)
- CXXXVI. **Attomole Sensitivity of Staphylococcal Enterotoxin B Detection Using an Aptamer-Modified Surface-Enhanced Raman Scattering Probe**  
Temur E., Zengin A., BOYACI İ. H., Dudak F. C., Torul H., Tamer U.  
ANALYTICAL CHEMISTRY, vol.84, no.24, pp.10600-10606, 2012 (SCI-Expanded)
- CXXXVII. **A novel method for quantification of ethanol and methanol in distilled alcoholic beverages using Raman spectroscopy**  
BOYACI İ. H., Genis H. E., GÜVEN B., Tamer U., ALPER N.  
JOURNAL OF RAMAN SPECTROSCOPY, vol.43, no.8, pp.1171-1176, 2012 (SCI-Expanded)
- CXXXVIII. **Comparison of sensing strategies in SPR biosensor for rapid and sensitive enumeration of bacteria**  
Torun O., BOYACI İ. H., Temur E., TAMER U.  
BIOSENSORS & BIOELECTRONICS, vol.37, no.1, pp.53-60, 2012 (SCI-Expanded)
- CXXXIX. **Detection of melamine in milk by surface-enhanced Raman spectroscopy coupled with magnetic and Raman-labeled nanoparticles**  
Yazgan N. N., Boyaci I. H., Topcu A., Tamer U.  
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.403, no.7, pp.2009-2017, 2012 (SCI-Expanded)
- CXL. **Enhancing the affinity of SEB-binding peptides by repeating their sequence**  
Dudak F. C., Kilic N., Demir K., YAŞAR F., BOYACI İ. H.  
BIOPOLYMERS, vol.98, no.2, pp.145-154, 2012 (SCI-Expanded)
- CXLI. **A rapid method for detection of genetically modified organisms based on magnetic separation and surface-enhanced Raman scattering**  
GÜVEN B., BOYACI İ. H., Tamer U., ÇALIK P.  
ANALYST, vol.137, no.1, pp.202-208, 2012 (SCI-Expanded)
- CXLII. **Ultrasensitive and selective homogeneous sandwich immunoassay detection by Surface Enhanced Raman Scattering (SERS)**  
Pekdemir M. E., Erturk D., KÜLAH H., BOYACI İ. H., ÖZGEN C., TAMER U.  
ANALYST, vol.137, no.20, pp.4834-4840, 2012 (SCI-Expanded)
- CXLIII. **A novel polypyrrole-phenylboronic acid based electrochemical saccharide sensor**  
Aytac S., Kuralay F., BOYACI İ. H., ÜNALEROĞLU C.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.160, no.1, pp.405-411, 2011 (SCI-Expanded)
- CXLIV. **Fabrication of magnetic gold nanorod particles for immunomagnetic separation and SERS application**  
TAMER U., BOYACI İ. H., Temur E., Zengin A., DİNÇER İ., Elerman Y.

- JOURNAL OF NANOPARTICLE RESEARCH, vol.13, no.8, pp.3167-3176, 2011 (SCI-Expanded)
- CXLV. **Prediction of wheat quality parameters using near-infrared spectroscopy and artificial neural networks**  
Mutlu A. C., BOYACI İ. H., GENİŞ H. E., Ozturk R., Basaran-Akgul N., Sanal T., Evlice A. K.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.233, no.2, pp.267-274, 2011 (SCI-Expanded)
- CXLVI. **Determination of visual quality of tomato paste using computerized inspection system and artificial neural networks**  
VELİOĞLU H. M., BOYACI İ. H., KURULTAY Ş.  
COMPUTERS AND ELECTRONICS IN AGRICULTURE, vol.77, no.2, pp.147-154, 2011 (SCI-Expanded)
- CXLVII. **Photoelectrochemical competitive DNA hybridization assay using semiconductor quantum dot conjugated oligonucleotides**  
Bas D., BOYACI İ. H.  
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.400, no.3, pp.703-707, 2011 (SCI-Expanded)
- CXLVIII. **The Discovery of Small-Molecule Mimicking Peptides through Phage Display**  
DUDAK ŞEKER F. C., BOYACI İ. H., Orner B. P.  
MOLECULES, vol.16, no.1, pp.774-789, 2011 (SCI-Expanded)
- CXLIX. **Amperometric Biosensors in Food Processing, Safety, and Quality Control**  
BOYACI İ. H., Mutlu M.  
BIOSENSORS IN FOOD PROCESSING, SAFETY, AND QUALITY CONTROL, pp.1-51, 2011 (SCI-Expanded)
- CL. **Quality evaluation of chickpeas using an artificial neural network integrated computer vision system**  
Cakmak Y. S., BOYACI İ. H.  
INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, vol.46, no.1, pp.194-200, 2011 (SCI-Expanded)
- CLI. **SERS-based sandwich immunoassay using antibody coated magnetic nanoparticles for Escherichia coli enumeration**  
GÜVEN B., BASARAN-AGGUL N., Temur E., Tamer U., BOYACI İ. H.  
ANALYST, vol.136, no.4, pp.740-748, 2011 (SCI-Expanded)
- CLII. **Chemometric methods for simultaneous quantification of lactic, malic and fumaric acids**  
Sokullu E., PALABIYIK İ. M., ONUR F., BOYACI İ. H.  
ENGINEERING IN LIFE SCIENCES, vol.10, no.4, pp.297-303, 2010 (SCI-Expanded)
- CLIII. **Thermodynamic and structural analysis of interactions between peptide ligands and SEB**  
Dudak F. C., Soykut E. A., Oguz M. E., YAŞAR F., BOYACI İ. H.  
JOURNAL OF MOLECULAR RECOGNITION, vol.23, no.4, pp.369-378, 2010 (SCI-Expanded)
- CLIV. **A high sensitive assay platform based on surface-enhanced Raman scattering for quantification of protease activity**  
Yazgan N. N., BOYACI İ. H., Temur E., Tamer U., Topcu A.  
TALANTA, vol.82, no.2, pp.631-639, 2010 (SCI-Expanded)
- CLV. **A highly sensitive detection platform based on surface-enhanced Raman scattering for Escherichia coli enumeration**  
Temur E., BOYACI İ. H., Tamer U., Unsal H., AYDOĞAN N.  
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.397, no.4, pp.1595-1604, 2010 (SCI-Expanded)
- CLVI. **Detoxification of aflatoxin B-1 and patulin by Enterococcus faecium strains**  
TOPCU A., BULAT T., Wishah R., BOYACI İ. H.  
INTERNATIONAL JOURNAL OF FOOD MICROBIOLOGY, vol.139, no.3, pp.202-205, 2010 (SCI-Expanded)
- CLVII. **Synthesis of magnetic core-shell Fe<sub>3</sub>O<sub>4</sub>-Au nanoparticle for biomolecule immobilization and detection**  
TAMER U., Gundogdu Y., BOYACI İ. H., PEKMEZ K.  
JOURNAL OF NANOPARTICLE RESEARCH, vol.12, no.4, pp.1187-1196, 2010 (SCI-Expanded)
- CLVIII. **Investigating the effects of ingredient levels on physical quality properties of cooked hamburger patties using response surface methodology and image processing technology**  
VELİOĞLU H. M., DURAKLI VELİOĞLU S., BOYACI İ. H., YILMAZ İ., KURULTAY Ş.  
MEAT SCIENCE, vol.84, no.3, pp.477-483, 2010 (SCI-Expanded)

- CLIX. **Rapid Method for Quantitative Determination of Proteolytic Activity with Cyclic Voltammetry**  
Bas D., BOYACI İ. H.  
ELECTROANALYSIS, vol.22, no.3, pp.265-267, 2010 (SCI-Expanded)
- CLX. **Estimation of Dielectric Properties of Cakes Based on Porosity, Moisture Content, and Formulations Using Statistical Methods and Artificial Neural Networks**  
BOYACI İ. H., ŞÜMNÜ S. G., Sakiyan O.  
FOOD AND BIOPROCESS TECHNOLOGY, vol.2, no.4, pp.353-360, 2009 (SCI-Expanded)
- CLXI. **Analyzing and monitoring of phage-bacteria interaction using CE**  
ACAR SOYKUT E., BOYACI İ. H.  
ELECTROPHORESIS, vol.30, no.20, pp.3548-3554, 2009 (SCI-Expanded)
- CLXII. **MULTIPLEX DETECTION OF ESCHERICHIA COLI AND SALMONELLA ENTERITIDIS BY USING QUANTUM DOT-LABELED ANTIBODIES**  
DUDAK ŞEKER F. C., BOYACI İ. H.  
JOURNAL OF RAPID METHODS AND AUTOMATION IN MICROBIOLOGY, vol.17, no.3, pp.315-327, 2009 (SCI-Expanded)
- CLXIII. **Quantitative Photoelectrochemical Detection of Biotin Conjugated CdSe/ZnS Quantum Dots on the Avidin Immobilized ITO Electrodes**  
Bas D., BOYACI İ. H.  
ELECTROANALYSIS, vol.21, no.16, pp.1829-1834, 2009 (SCI-Expanded)
- CLXIV. **Thermodynamic analysis of the interaction between 3-aminophenylboronic acid and monosaccharides for development of biosensor**  
Torun O., DUDAK ŞEKER F. C., Bas D., TAMER U., BOYACI İ. H.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.140, no.2, pp.597-602, 2009 (SCI-Expanded)
- CLXV. **Determination of viable Escherichia coli using antibody-coated paramagnetic beads with fluorescence detection**  
DUDAK ŞEKER F. C., BOYACI İ. H., Jurkevica A., Hossain M., Aquilar Z., Halsall H. B., Seliskar C. J., Heineman W. R.  
ANALYTICAL AND BIOANALYTICAL CHEMISTRY, vol.393, no.3, pp.949-956, 2009 (SCI-Expanded)
- CLXVI. **Glucose isomerase production on a xylan-based medium by Bacillus thermoantarcticus**  
ÇALIK P., Angardi V., Haykir N. I., BOYACI İ. H.  
BIOCHEMICAL ENGINEERING JOURNAL, vol.43, no.1, pp.8-15, 2009 (SCI-Expanded)
- CLXVII. **Simple Determination of Histamine in Cheese by Capillary Electrophoresis with Diode Array Detection**  
Numanoglu E., BOYACI İ. H., TOPCU A.  
JOURNAL OF FOOD AND DRUG ANALYSIS, vol.16, no.6, pp.74-80, 2008 (SCI-Expanded)
- CLXVIII. **Enumeration of immunomagnetically captured Escherichia coli in water samples using quantum dot-labeled antibodies**  
DUDAK ŞEKER F. C., BOYACI İ. H.  
JOURNAL OF RAPID METHODS AND AUTOMATION IN MICROBIOLOGY, vol.16, no.2, pp.122-131, 2008 (SCI-Expanded)
- CLXIX. **Determination of transglutaminase activity using fluorescence spectrophotometer**  
Sokullu E., Bas D., BOYACI İ. H., Oener Z., KARAHAN ÇAKMAKÇI A. G., ÇAKIR İ., Cakmakci L.  
FOOD BIOTECHNOLOGY, vol.22, no.3, pp.297-310, 2008 (SCI-Expanded)
- CLXX. **Scanner-based color measurement in L\*a\*b\* format with artificial neural networks (ANN)**  
Kihc K., Onal-Ulusoy B., Yildirim M., Boyaci I. H.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.226, pp.121-126, 2007 (SCI-Expanded)
- CLXXI. **Modeling and optimization IV: Investigation of reaction kinetics and kinetic constants using a program in which artificial neural network (ANN) was integrated**  
Bas D., DUDAK ŞEKER F. C., Boyaci I. H.  
JOURNAL OF FOOD ENGINEERING, vol.79, no.4, pp.1152-1158, 2007 (SCI-Expanded)
- CLXXII. **Modeling and optimization III: Reaction rate estimation using artificial neural network (ANN) without a kinetic model**

- Bas D., DUDAK ŞEKER F. C., Boyaci I. H.  
JOURNAL OF FOOD ENGINEERING, vol.79, no.2, pp.622-628, 2007 (SCI-Expanded)
- CLXXIII. **A novel method for color determination of edible oils in L\*a\*b\* format**  
Kilic K., Onal-Ulusoy B., Boyaci I. H.  
EUROPEAN JOURNAL OF LIPID SCIENCE AND TECHNOLOGY, vol.109, no.2, pp.157-164, 2007 (SCI-Expanded)
- CLXXIV. **A classification system for beans using computer vision system and artificial neural networks**  
Kilic K., Boyaci I. H., Koxsel H., Kusmenoglu I.  
JOURNAL OF FOOD ENGINEERING, vol.78, no.3, pp.897-904, 2007 (SCI-Expanded)
- CLXXV. **Development of an immunosensor based on surface plasmon resonance for enumeration of Escherichia coli in water samples**  
DUDAK ŞEKER F. C., Boyaci I. H.  
FOOD RESEARCH INTERNATIONAL, vol.40, no.7, pp.803-807, 2007 (SCI-Expanded)
- CLXXVI. **ANYL 156-Bead-based immunoassay for determination of Escherichia coli in water with fluorescence detection**  
Jurkevica A., DUDAK ŞEKER F. C., BOYACI İ. H., Halsall H. B., Seliskar C. J., Heineman W. R.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.232, 2006 (SCI-Expanded)

### Articles Published in Other Journals

- I. **RAPID IDENTIFICATION OF SOME SWEETENERS AND SUGARS BY ATTENUATED TOTAL REFLECTANCE-FOURIER TRANSFORM INFRARED (ATR-FTIR), NEAR-INFRARED (NIR) AND RAMAN SPECTROSCOPY**  
GÜVEN B., BOYACI İ. H., DURAKLI VELİOĞLU S.  
GIDA / THE JOURNAL OF FOOD, vol.44, pp.274-290, 2019 (Peer-Reviewed Journal)
- II. **Mineral content analysis of root canal dentin using laser-induced breakdown spectroscopy**  
KÜÇÜKKAYA S., UZUNOĞLU ÖZYÜREK E., SEZER B., YILMAZ Z., BOYACI İ. H.  
Restorative Dentistry Endodontics, vol.43, pp.58-67, 2018 (Peer-Reviewed Journal)
- III. **Nano sized structures for the detection of food components and contaminants**  
DUDAK ŞEKER F. C., BAŞ D., BAŞARAN AKGÜL N., TAMER U., BOYACI İ. H.  
Frontiers in Bioscience, vol.3, no.1, pp.1109, 2011 (Scopus)
- IV. **Rapid and label free bacteria detection by surface plasmon resonance SPR biosensors**  
DUDAK ŞEKER F. C., BOYACI İ. H.  
Biotechnology Journal, vol.4, no.7, pp.1003-1011, 2009 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Isıl İşlemin Sütlerde Protein Yapısı Üzerine Etkilerinin Vibrasyonel Olarak İncelenmesi**  
KELGÖKMEN D., BULAT T., YAZĞAN N. N., TOPCU A., BOYACI İ. H., ÖZER H. B., YAZIHAN N.  
2. Ulusal Sütçülük Kongresi, Turkey, 25 - 26 April 2019
- II. **Comparison of Traditional and Rolling Circle Amplification (RCA)-Surface-Enhanced Raman Spectroscopy (SERS) Methods for Genetically Modified Organisms (GMOs) Detection.**  
GÜVEN B., BOYACI İ. H., TAMER U.  
3rd International Congress on Food Technology, Nevşehir, Turkey, 10 - 12 October 2018
- III. **LFIA enumeration of E.coli using FE3O4/AU-PEI nanoparticles in blood.**  
İLHAN H., DOĞAN Ü., SULUDERE Z., BOYACI İ. H., ÇETİN D., SAĞLAM N., TAMER U.  
ISOPS-12 Ankara, TURKEY, 26 - 29 June 2018
- IV. **SERS Based E.coli enumeration in urine with using casein bound magnetic nanoparticles.**  
İLHAN H., DOĞAN Ü., SULUDERE Z., BOYACI İ. H., ÇETİN D., SAĞLAM N., TAMER U.  
8th Black Sea Basin Conference on Analytical Chemistry (8th BBCAC) İstanbul Turkey, 9 - 11 May 2018

- V. **Bioanalysis system for the determination of antimicrobial in foods**  
YAZĞAN N. N., DUDAK ŞEKER F. C., BOYACI İ. H., TOPCU A.  
International Conference on RAW MATERIALS TO PROCESSED FOODS, 11 - 13 April 2018
- VI. **THE DETECTION OF LATERAL FLOW IMMUNOASSAY OF PEI MODIFIED FE3O4/AU NANOPARTICLES FOR RAPID ENUMERATION OF E COLI**  
İLHAN H., DOĞAN Ü., SULUDERE Z., BOYACI İ. H., ÇETİN D., UĞUR T., SAĞLAM N.  
TURKEY-TAIWAN HEALTH SCIENCE SYMPOSIUM, 1 - 04 April 2018
- VII. **Simultaneous Quantification of Nitramine Explosives by Using Surface-enhanced Raman Spectroscopy**  
ERYILMAZ M., GÜVEN B., ARDA A., BOYACI İ. H., TAMER U., APAK M. R.  
PITTCO 2018, 26 February - 01 March 2018
- VIII. **A new method for mineral content analysis of root canal dentine**  
KÜÇÜKKAYA EREN S., UZUNOĞLU E., YILMAZ Z., SEZER B., BOYACI İ. H.  
18th Biennial European Society of Endodontology Congress, 14 - 16 September 2017, pp.13
- IX. **Development of a New Method for Structural Analysis Of Ge Nanoparticles Embedded ZnO Thin Films By Laser Induced Breakdown Spectroscopy**  
ESELLER K. E., TOPÇU M. S., CEYLAN A., SEZER B., BİLGE G., BOYACI İ. H.  
EMSLIBS 2017, Piza, 11 - 16 June 2017
- X. **Developing the Rolling Circle Amplification (RCA) Based Surface-Enhanced Raman Spectroscopy (SERS) Method for Genetically Modified Organisms (GMOs)**  
GÜVEN B., ACAR SOYKUT E., BOYACI İ. H., TAMER U.  
Colloquium Spectroscopicum Internationale XL, Pisa, Italy, 11 - 16 June 2017
- XI. **Comparison Between Traditional SERS and RCA SERS Assays for 35S Promoter Gene Detection**  
GÜVEN B., BOYACI İ. H., TAMER U., ACAR SOYKUT E.  
251st American Chemical Society National Meeting Exposition, 13 - 17 March 2016
- XII. **Designing the Rolling Circle Amplification Based Surface Enhanced Raman Spectroscopy Method for 35S Promoter Maize Gene Detection**  
GÜVEN B., BOYACI İ. H., TAMER U., ACAR SOYKUT E.  
7th International Symposium on Recent Advances in Food Analysis (RAFA 2015), 3 - 06 November 2015
- XIII. **Discrimination of beef and horsemeat by taking the advantage of Raman spectroscopy**  
BOYACI İ. H., TEMİZ H. T., UYSAL R. S., VELİOĞLU H. M., TAMER U., YADEGARI R. J., RISHKAN M. M.  
248th National Meeting of the American-Chemical-Society (ACS), San-Francisco, Costa Rica, 10 - 14 August 2014, vol.248
- XIV. **Herbicide Bio detection by Raman Spectroscopy**  
AÇIKBAŞ Ş., BOYACI İ. H., SAĞLAM N.  
10th Nanoscience And Nanotechnology Conference (Nanotr-X), Turkey, 17 - 21 June 2014
- XV. **Nanoparticle Based DNA Biosensor For the Detection of Genetically Modified Organisms by Surface Enhanced Raman Spectroscopy**  
GÜVEN B., ZENGİN A., TAMER U., BOYACI İ. H.  
Pittcon 2013, Conference Expo, 18 - 23 March 2013
- XVI. **Raman spectroscopy coupled with chemometric methods for rapid detection of fat adulteration in dairy products**  
BULAT T., YAZĞAN N. N., TOPCU A., BOYACI İ. H.  
PITTCO Conference, 17 - 21 March 2013
- XVII. **Peynirde Yağ Tağşisinin Hızlı Tespiti İçin Raman Spektroskopisi ve Kemometrik Yöntemlerin Kullanımı**  
YAZĞAN N. N., BULAT T., BOYACI İ. H., TOPCU A.  
Süt Endüstrisinde Yenilikçi Yaklaşımlar Sempozyumu, Denizli, Turkey, 15 - 16 November 2012
- XVIII. **A Novel Method for Detection of Ethanol and Methanol in Distilled Alcoholic Beverages Using Raman Spectroscopy**  
GÜVEN B., GENİŞ H. E., UĞUR T., BOYACI İ. H.



Pittcon 2011, Conference Expo, 11 - 15 March 2012

- XIX. Analysis of interactions between peptide ligands and SEB**  
DUDAK ŞEKER F. C., ACAR SOYKUT E., BOYACI İ. H.  
239th American Chemical Society (ACS) National Meeting Exposition, 21 - 25 March 2010
- XX. Interaction of SEB with phage displayed peptides**  
ACAR SOYKUT E., DUDAK ŞEKER F. C., BOYACI İ. H.  
34th FEBS Congress Life's Molecular Interactions, 4 - 09 July 2009
- XXI. Thermodynamics of binding of peptide-ligands to SEB**  
DUDAK ŞEKER F. C., ACAR SOYKUT E., BOYACI İ. H.  
34th FEBS Congress Life's Molecular Interactions, 4 - 09 July 2009
- XXII. A novel peptide-ligand for staphylococcal enterotoxin B**  
DUDAK ŞEKER F. C., ACAR SOYKUT E., BOYACI İ. H.  
PepCon-2009 The Dedicated Event for Protein/Peptide Professionals, 2 - 04 April 2009
- XXIII. ANYL 148-Multiplexed bacteria detection by coupling immunomagnetic separation with quantum dot labeling**  
DUDAK ŞEKER F. C., BOYACI İ. H.  
235th American-Chemical-Society National Meeting, Louisiana, United States Of America, 6 - 10 April 2008, vol.235
- XXIV. İletken nanopartiküller kullanılarak bakteri tayini**  
DUDAK ŞEKER F. C., BOYACI İ. H.  
XV. Biyoteknoloji Kongresi, Turkey, 28 - 31 October 2007
- XXV. Development of an immunosensor based on surface plasmon resonance for the detection of Escherichia coli in water samples**  
DUDAK ŞEKER F. C., BOYACI İ. H.  
PITTCON 2007, 58th Pittsburgh Conference on Analytical Chemistry and Applied Spectroscopy, 25 February - 02 March 2007
- XXVI. ANYL 156-Bead-based immunoassay for determination of Escherichia coli in water with fluorescence detection**  
Jurkevica A., DUDAK ŞEKER F. C., BOYACI İ. H., Halsall B., Seliskar C., Heineman W.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 10 - 14 September 2006, vol.232
- XXVII. Development of a fluorometric immunoassay for the determination of Escherichia coli using paramagnetic beads**  
DUDAK ŞEKER F. C., BOYACI İ. H.  
International Summer School on Molecular Imaging, 4 - 08 September 2006
- XXVIII. Sulardaki Escherichia coli'nin hızlı tayini için paramanyetik küreler kullanılarak florometrik analiz yönteminin geliştirilmesi**  
DUDAK ŞEKER F. C., BOYACI İ. H., Heineman W., Halsall B., Seliskar C.  
Türkiye 9. Gıda Kongresi, Turkey, 24 - 26 May 2006
- XXIX. Yapay Sinir Ağlarının Gıda Alanında Kullanılması**  
BAŞ D., Kılıç K., DUDAK ŞEKER F. C., BOYACI İ. H.  
Türkiye 9. Gıda Kongresi, Turkey, 24 - 26 May 2006

## Supported Projects

BOYACI İ. H., Project Supported by Higher Education Institutions, Etanol tayinine yönelik kuvarz kristal rezonatör temelli gaz sensörlerinin geliştirilmesi, 2010 - Continues

KÖKSEL H., BOYACI İ. H., ARSLAN E. Z., Project Supported by Higher Education Institutions, Laboratuvarlar Arası Entegrasyonun Sağlanmasına Yönelik Bilişim Alt Yapısının Geliştirilmesi, 2015 - 2019

BOYACI İ. H., GÜVEN B., Project Supported by Higher Education Institutions, Mimetik Biyo-moleküller ve Metamalzemenin Tanıyıcı Tabaka-Çevirici olarak Kullanılabilirliği: Meta-Biyo-Sensör, 2014 - 2018

BOYACI İ. H., Project Supported by Higher Education Institutions, IAFP 2017 Kongre Katılım Katılımı, 2017 - 2017

BOYACI İ. H., Project Supported by Higher Education Institutions, GIDALARIN ELEMENTEL ANALİZLERİNDE LAZER İNDÜKLÜ PLAZMA SPEKTROSKOPİSİ, 2016 - 2017

YILMAZ Z., Işık M., BOYACI İ. H., UZUNOĞLU E., Project Supported by Higher Education Institutions, Farklı Taşıyıcı Solüsyonlarla Hazırlanmış Kök Ucu Dolgu Maddelerinin Dentin Temasıyla Değişen Mineral İçeriğinin Değerlendirilmesi, 2016 - 2017

BOYACI İ. H., Project Supported by Higher Education Institutions, Sebze ve Meyvelerde Karbamat Tipi Pestisit Tayini, 2013 - 2017

BOYACI İ. H., TUBITAK Project, Manyetik nanopartikül ve kuantum noktacığı kullanarak mikroçip tabanlı bakteri tayini, 2013 - 2017

BOYACI İ. H., KÖKSEL H., TUBITAK Project, Sanayici, Çiftçi Ve Tüketici İstekleriDoğrultusunda Yeni Ekmeklik Ve Makarnalık Buğday Hat Ve Çeşitlerinin Geliştirilmesi, 2013 - 2017

BOYACI İ. H., GÜVEN B., Project Supported by Higher Education Institutions, Yüzeyde güçlendirilmiş Raman spektroskopisi kullanılarak yüksek hassasiyette DNA analizine yönelik dönen çember amplifikasyonu yönteminin geliştirilmesi, 2016 - 2016

BOYACI İ. H., Project Supported by Higher Education Institutions, PITTCON 2016, 2016 - 2016

BOYACI İ. H., Project Supported by Higher Education Institutions, Bilimsel Başarı Desteğı ile Malzeme Alımı, 2015 - 2016

BOYACI İ. H., Project Supported by Higher Education Institutions, LIBS kullanarak gerçekleştirilen gıda analizleri, 2015 - 2016

BOYACI İ. H., Sezer B., Bilge G., Project Supported by Higher Education Institutions, Libs kullanarak ette tür tayini, 2015 - 2016

BOYACI İ. H., Project Supported by Higher Education Institutions, Vibrasyonel spektroskopik yöntemler kullanılarak süt ve süt ürünlerinde menşei (tür) tayini, 2013 - 2016

BOYACI İ. H., Industrial Thesis Project, HIZLI GIDA ANALİZLERİNE YÖNELİK NIR SİSTEMİNİN GELİŞTİRİLMESİ, 2013 - 2016

BOYACI İ. H., Project Supported by Higher Education Institutions, Pittcon 2015 Kongre Katılım Desteğı, 2015 - 2015

BOYACI İ. H., Project Supported by Higher Education Institutions, Eğitim amaçlı laboratuvar alt yapısının iyileştirilmesi, 2014 - 2015

BOYACI İ. H., Project Supported by Higher Education Institutions, Çiğ Sütlerde Mastitis Tayininde Kağıt Tabanlı Analitik Yöntemlerin Geliştirilmesi, 2013 - 2015

## Metrics

Publication: 210

Citation (WoS): 3032

Citation (Scopus): 1520

H-Index (WoS): 31

H-Index (Scopus): 20

## Non Academic Experience

Hacettepe Üniversitesi

Hacettepe Üniversitesi