

# Prof. İSMAİL HAKKI BOYACI

## Personal Information

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## 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 sularda *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., Tayyarcı 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**  
Evrancı S., Tayyarcı 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., Boyacı I. H., Tamer U.  
FOOD CHEMISTRY, vol.372, 2022 (SCI-Expanded)
- XXIV. **The use of bacteriophage cocktails to reduce Salmonella Enteritidis in hummus**  
Tayyarcı E. K., Evrancı 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**  
Evrancı S., Tayyarcı 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., Tayyarcı 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**  
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### 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**  
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- III. **Nano sized structures for the detection of food components and contaminants**  
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- I. **Isıl İşlemin Sütlerde Protein Yapısı Üzerine Etkilerinin Vibrasyonel Olarak İncelenmesi**  
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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.**  
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- VII. **Simultaneous Quantification of Nitramine Explosives by Using Surface-enhanced Raman Spectroscopy**  
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- VIII. **A new method for mineral content analysis of root canal dentine**  
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- IX. **Development of a New Method for Structural Analysis Of Ge Nanoparticles Embedded ZnO Thin Films By Laser Induced Breakdown Spectroscopy**  
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- X. **Developing the Rolling Circle Amplification (RCA) Based Surface-Enhanced Raman Spectroscopy (SERS) Method for Genetically Modified Organisms (GMOs)**  
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- 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.  
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- XIV. **Herbicide Bio detection by Raman Spectroscopy**  
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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**  
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34th FEBS Congress Life's Molecular Interactions, 4 - 09 July 2009
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34th FEBS Congress Life's Molecular Interactions, 4 - 09 July 2009
- XXII. A novel peptide-ligand for staphylococcal enterotoxin B**  
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235th American-Chemical-Society National Meeting, Louisiana, United States Of America, 6 - 10 April 2008, vol.235
- XXIV. İletken nanopartiküller kullanılarak bakteri tayini**  
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XV. Biyoteknoloji Kongresi, Turkey, 28 - 31 October 2007
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DUDAK ŞEKER F. C., BOYACI İ. H.  
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## 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