

Prof. İSMAİL HAKKI BOYACI

Personal Information

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Education Information

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

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Agricultural Sciences, Agriculture

Academic Titles / Tasks

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

Advising Theses

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

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, Post Graduate, E.KÜBRA(Student), 2017

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

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

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

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

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

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

BOYACI İ. H. , Biyosensör uygulamaları için peptid-ligandların geliştirilmesi, Doctorate, F.CEYDA(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. , Alkollü içeceklerde bulunan etanol ve metanolün raman spektroskopisi ile nicel tayini, Post Graduate, H.EFE(Student), 2012

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

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

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

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

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

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

BOYACI İ. H. , Gıda uygulamalarına yönelik yüzeyde güçlendirilmiş raman spektroskopisini temel alan biyoanaliz yöntemlerinin geliştirilmesi, Post Graduate, B.GÜVEN(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*, Post Graduate, I.HAYKIR(Student), 2007

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

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

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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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, pp.4756-4765, 2020 (Journal Indexed in SCI)
- II. **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, 2020 (Journal Indexed in SCI)
- III. **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, pp.3788-3796, 2020 (Journal Indexed in SCI)
- IV. **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, 2020 (Journal Indexed in SCI)

- V. **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, pp.634-641, 2020 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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, 2020 (Journal Indexed in SCI)
- VIII. **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, 2020 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **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, pp.461-475, 2020 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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, pp.500-509, 2020 (Journal Indexed in SCI)
- XIII. **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, pp.179-186, 2020 (Journal Indexed in SCI)
- XIV. **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, pp.1157-1167, 2020 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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, pp.751-763, 2019 (Journal Indexed in SCI)
- XIX. **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, 2019 (Journal Indexed in SCI)
- XX. **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, 2019 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)
- XXIII. **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, pp.3573-3580, 2019 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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, pp.3572-3577, 2019 (Journal Indexed in SCI)
- XXVI. **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, 2019 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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, pp.2236-2242, 2019 (Journal Indexed in SCI)
- XXIX. **Raman spectroscopy coupled with chemometric methods for the discrimination of foreign fats and oils in cream and yogurt**
Karacaglar N. N. Y. , BULAT T., BOYACI İ. H. , TOPCU A.
JOURNAL OF FOOD AND DRUG ANALYSIS, vol.27, pp.101-110, 2019 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)
- XXXI. **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, pp.627-636, 2018 (Journal Indexed in SCI)
- XXXII. **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, pp.866-878, 2018 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **Chemometric Evaluation of Discrimination of Aromatic Plants by Using NIRS, LIBS**
Ercioglu E., VELİOĞLU H. M. , BOYACI İ. H.
FOOD ANALYTICAL METHODS, vol.11, pp.1656-1667, 2018 (Journal Indexed in SCI)
- XXXVI. **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 (Journal Indexed in SCI)
- XXXVII. **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 (Journal Indexed in SCI)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **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, pp.155-162, 2018 (Journal Indexed in SCI)
- XLI. **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, pp.1213-1218, 2018 (Journal Indexed in SCI)
- XLII. **Determination of terpenoid contents of aromatic plants using NIRS**
Ercioglu E., VELİOĞLU H. M. , BOYACI İ. H.
TALANTA, vol.178, pp.716-721, 2018 (Journal Indexed in SCI)
- XLIII. **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, pp.334-343, 2018 (Journal Indexed in SCI)
- XLIV. **A rapid tool for determination of titanium dioxide content in white chickpea samples**
Sezer B., Bilge G., BERKKAN A., TAMER U., BOYACI İ. H.
FOOD CHEMISTRY, vol.240, pp.84-89, 2018 (Journal Indexed in SCI)
- XLV. **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 (Journal Indexed in SCI)
- XLVI. **Detection and quantification of a toxic salt substitute (LiCl) by using laser induced breakdown spectroscopy (LISS)**
Sezer B., VELİOĞLU H. M. , Bilge G., BERKKAN A., Ozdinc N., TAMER U., BOYACI İ. H.
MEAT SCIENCE, vol.135, pp.123-128, 2018 (Journal Indexed in SCI)
- XLVII. **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, pp.82-89, 2018 (Journal Indexed in SCI)
- XLVIII. **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, pp.91-105, 2018 (Journal Indexed in SCI)
- XLIX. **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 (Journal Indexed in SCI)
- L. **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 (Journal Indexed in SCI)
- LI. **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., Ercioğlu E., BOYACI İ. H.
JOURNAL OF DAIRY RESEARCH, vol.84, pp.214-219, 2017 (Journal Indexed in SCI)
- LII. **Rapid quantification of total protein with surface-enhanced Raman spectroscopy using o-phthalaldehyde**
Eryılmaz M., Zengin A., BOYACI İ. H. , TAMER U.
JOURNAL OF RAMAN SPECTROSCOPY, vol.48, pp.653-658, 2017 (Journal Indexed in SCI)
- LIII. **Synchronous fluorescence spectroscopy for determination of tahini adulteration**
TEMİZ H. T. , TAMER U., BERKKAN A., BOYACI İ. H.
TALANTA, vol.167, pp.557-562, 2017 (Journal Indexed in SCI)
- LIV. **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, pp.1547-1555, 2017 (Journal Indexed in SCI)
- LV. **Use of Raman spectroscopy for determining erucic acid content in canola oil**
Velioglu S. D. , TEMİZ H. T. , Ercioğlu E., Velioglu H. M. , TOPCU A., BOYACI İ. H.
FOOD CHEMISTRY, vol.221, pp.87-90, 2017 (Journal Indexed in SCI)
- LVI. **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 (Journal Indexed in SCI)
- LVII. **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 (Journal Indexed in SCI)
- LVIII. **Surface-enhanced Raman spectroscopy combined with gold nanorods for the simultaneous quantification of nitramine energetic materials**
GÜVEN B., Eryılmaz M., Uzer A., BOYACI İ. H. , Tamer U., Apak R.
RSC ADVANCES, vol.7, pp.37039-37047, 2017 (Journal Indexed in SCI)
- LIX. **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 (Journal Indexed in SCI)
- LX. **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, pp.302-313, 2017 (Journal Indexed in SCI)
- LXI. **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 (Journal Indexed in SCI)

- LXII. **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 (Journal Indexed in SCI)
- LXIII. **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, pp.9459-9463, 2016 (Journal Indexed in SCI)
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GÜVEN B., BOYACI İ. H., TAMER U.
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- II. **LFIA enumeration of E.coli using FE3O4/AU-PEI nanoparticles in blood.**
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- III. **SERS Based E.coli enumeration in urine with using casein bound magnetic nanoparticles.**
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- VIII. **Developing the Rolling Circle Amplification (RCA) Based Surface-Enhanced Raman Spectroscopy (SERS) Method for Genetically Modified Organisms (GMOs)**
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- XI. **Discrimination of beef and horsemeat by taking the advantage of Raman spectroscopy**

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