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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Bilimleri , Türkiye 1997 - 2001

Yabancı Diller

İngilizce, B2 Orta Üstü

Araştırma Alanları

Tarımsal Bilimler, Ziraat

Akademik Unvanlar / Görevler

Prof. Dr., Hacettepe Üniversitesi, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 2009 - Devam Ediyor

Yönetilen Tezler

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

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

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- I. **Phage probe on RAFT polymer surface for rapid enumeration of *E. coli* K12**
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- II. **UV-ozone treated glass fiber based lateral flow DNA extraction platform integrated with LAMP for rapid detection of pathogen bacteria in whole blood**
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- III. **Evaluating the efficacy of a phage cocktail against *Pseudomonas fluorescens* group strains in raw milk: microbiological, physical, and chemical analyses**
Tayyarcan E. K., Evran E., Guven K., Ekiz E., SOYKUT E. A., BOYACI İ. H.
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- IV. **Effect of wax separation on macro- and micro-elements, phenolic compounds, pesticide residues, and toxic elements in propolis**
Evran E., Durakli-Velioglu S., Velioglu H. M., BOYACI İ. H.
Food Science and Nutrition, cilt.12, sa.3, ss.1736-1748, 2024 (SCI-Expanded)
- V. **Effect of Sequential Treatment of Plasma Activated Water and Bacteriophage on Decontamination of Salmonella Typhimurium in Lettuce**
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- VI. **Evaluation of long- and short-term storage conditions and efficiency of a novel microencapsulated Salmonella phage cocktail for controlling Salmonella in chicken meat**
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- VII. **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**
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- VIII. **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.
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- IX. **Identification of blood at simulated crime scenes using silver nanoparticles with SERS**
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- X. **Isolation, characterization, and application of bacteriophage cocktails for the biocontrol of Pseudomonas fluorescens group strains in whole and skimmed milk**
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Brazilian Journal of Microbiology, cilt.54, sa.4, ss.3061-3071, 2023 (SCI-Expanded)
- XI. **Recent advances in phage therapy for pharmaceutical applications**
Saraç-Acarca E. S., Evran E., Tayyarcan E. K., İLBASMIŞ TAMER S., TORT S., BOYACI İ. H., Acartürk F.
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- XII. **A simple gradient centrifugation method for bacteria detection in skim milk**
Rodoplu Solovchuk D., BOYACI İ. H., TAMER U., ŞAHİNER N., ÇETİN D.
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- XIII. **Improving microbial quality of wheat flour using ethanol-water mixture as a tempering solution**
Ari Akin P., Tayyarcan E. K., Evran S., BOYACI İ. H.
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- XIV. **Overcoming obstacles: Analysis of blood and semen stains washed with different chemicals with ATR-FTIR**
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- XVI. **Cytotoxic, apoptotic and necrotic effects of starch coated copper nanoparticles on Capan 1**

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- XVII. **Principles, Methods, and Real-Time Applications of Bacteriophage-Based Pathogen Detection**
Panhwar S., Keerio H. A., Ilhan H., BOYACI İ. H., TAMER U.
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- XVIII. **An ECL sensor combined with a paper electrode for the determination of phenylalanine**
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- XIX. **Laser-induced breakdown spectroscopy as a reliable analytical method for classifying commercial cheese samples based on their cooking/ stretching process**
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- XX. **Paper-based electrochemiluminescence gas sensor**
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- XXI. **Escherichia coli Enumeration in a Capillary-Driven Microfluidic Chip with SERS**
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- XXII. **Sorghum Flour Application in Bread: Technological Challenges and Opportunities**
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- XXIV. **Surface-enhanced Raman scattering-based detection of plasmin activity by specific peptide substrate**
Yazğan N. N., Bulat T., Topcu A., Dudak F. C., Boyaci I. H., Tamer U.
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- XXV. **Rapid discrimination of authenticity in wheat flour and pasta samples using LIBS**
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- XXVI. **Identification of meat species in processed meat products by using protein based laser induced breakdown spectroscopy assay**
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- XXVII. **Applications of Bacteriophage Cocktails to Reduce Salmonella Contamination in Poultry Farms**
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- XXX. **Replacement of antibodies with bacteriophages in lateral flow assay of Salmonella Enteritidis**
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- XXXI. **Use of tea fibers as a source of dietary fiber in wheat flour and bread**
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- XXXIII. **A new and facile route to prepare gold nanoparticle clusters on anodic aluminium oxide as a SERS substrate**
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- XXXIV. **Disposable electrochemical flow cell with paper-based electrode assemble**
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- XXXV. **Protein based evaluation of meat species by using laser induced breakdown spectroscopy**
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- XXXVII. **Determination of milk fat authenticity in ultra-filtered white cheese by using Raman spectroscopy with multivariate data analysis**
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- XXXVIII. **Determination of green pea and spinach adulteration in pistachio nuts using NIR spectroscopy**
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- XXXIX. **Dual Responsive Disposable Electrode for the Enumeration of Escherichia coli in Whole Blood**
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- XL. **Discrimination of milk species using Raman spectroscopy coupled with partial least squares discriminant analysis in raw and pasteurized milk**
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- XLI. **Multiplex enumeration of Escherichia coli and Salmonella enteritidis in a passive capillary microfluidic chip**
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- XLII. **Nanoparticle-assisted pyrrolidonyl arylamidase assay for a culture-free Group A Streptococcus pyogenes detection with image analysis**
Eryilmaz M., TAMER U., BOYACI İ. H.
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- XLIII. **Utilization potential of Glutograph in wheat breeding programs and the influence of genotype and environment on bread wheat quality**
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- XLIV. **Development of a nanoparticle-based gradient method for simple and fast quantification of bacteria-nanoparticle conjugates**
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- XLV. **Weathering performance of waterborne acrylic coating systems on flat-pressed wood-plastic composites**
DURMAZ S., ÖZGENÇ Ö., AVCI E., BOYACI İ. H.
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- XLVI. **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.
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- XLVII. **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.
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- XLVIII. **Determination of yolk:white ratio of egg using SDS-PAGE**
Uysal R. S., Acar-Soykut E., BOYACI İ. H.
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- XLIX. **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.
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- L. **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.
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- LI. **Immunomagnetic separation and Listeria monocytogenes detection with surface-enhanced Raman scattering**
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- LII. **Laser induced breakdown spectroscopy based diffusion modelling in cheese matrix**
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- LIII. **Mixed monolayer decorated SPR sensing surface for thrombin detection**
Sadik D. A., BOYACI İ. H., MUTLU M.
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- LIV. **Authentication of liquid egg composition using ATR-FTIR and NIR spectroscopy in combination with PCA**
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- LV. **Microencapsulation of phages to analyze their demeanor in physiological conditions**
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- LVI. **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.
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- LVII. **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.
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- LVIII. **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.
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- LIX. **The coupling of immunomagnetic enrichment of bacteria with paper-based platform**
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- LX. **Identification of cow, buffalo, goat and ewe milk species in fermented dairy products using synchronous fluorescence spectroscopy**
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- FOOD CHEMISTRY, cilt.284, ss.60-66, 2019 (SCI-Expanded)
- LXI. **SERS-based rapid assay for sensitive detection of Group A Streptococcus by evaluation of the swab sampling technique**
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- LXII. **Determination of liquid egg composition using attenuated total reflectance Fourier transform infrared spectroscopy and chemometrics**
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- LXIII. **Effects of heat-treated liquid whole egg on cake batter rheology and the quality of baked cake**
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- LXIX. **Mixed-monolayer of N-hydroxysuccinimide-terminated cross-linker and short alkanethiol to improve the efficiency of biomolecule binding for biosensing**
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- LXXI. **Identification of milk fraud using laser-induced breakdown spectroscopy (LIBS)**
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- LXXXV. **ATR-FTIR SPECTROSCOPIC ANALYSIS OF THERMALLY MODIFIED WOOD DEGRADED BY ROT FUNGI**
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- XCIII. **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**
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- XCv. **Determination of chemical changes in heat-treated wood using ATR-FTIR and FT Raman spectrometry**
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Metrikler

Yayın: 214

Atf (WoS): 3032

Atf (Scopus): 1593

H-İndeks (WoS): 31

H-İndeks (Scopus): 21

Akademi Dışı Deneyim

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