

## Res. Asst. Perihan Kübra AKMAN

### Personal Information

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### Education Information

Doctorate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gıda Mühendisliği Bölümü, Turkey 2016 - Continues

Post Graduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gıda Mühendisliği Bölümü, Turkey 2014 - 2016

Under Graduate, Selçuk Üniversitesi, Ziraat Fakültesi, Gıda Mühendisliği Bölümü, Turkey 2009 - 2013

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Post Graduate, Elektrodöndürme Tekniği ile Üretilen Kurkumin Yüklü Nanoliflerin Üretimi ve Karakterizasyonu, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gıda Mühendisliği Anabilim Dalı, 2016

### Research Areas

Food Engineering, Food Science, Food Microbiology, Food Technology, Food Packaging, Engineering and Technology

### Academic Titles / Tasks

Research Assistant, Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Gıda Mühendisliği Bölümü, 2014 - Continues

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

- I. **Characterization of physicochemical and antioxidant properties of Bayburt honey from the North-east part of Turkey**  
Bayram N. E., Kara H. H., Can A. M., BOZKURT F., AKMAN P. K., Vardar S. U., ÇEBİ N., YILMAZ M. T., SAĞDIÇ O., Dertli E.  
JOURNAL OF APICULTURAL RESEARCH, 2020 (Journal Indexed in SCI)
- II. **Development and characterization of sodium alginate based active edible films incorporated with essential oils of some medicinal plants**  
Mahcene Z., Khelil A., Hasni S., Akman P. K., Bozkurt F., Birech K., Goudjil M. B., Törnük F.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.145, pp.124-132, 2020 (Journal Indexed in SCI)

- III. **Fabrication and characterization of probiotic *Lactobacillus plantarum* loaded sodium alginate edible films**  
AKMAN P. K. , BOZKURT F., Dogan K., TÖRNÜK F., Tamturk F.  
Journal of Food Measurement and Characterization, 2020 (Journal Indexed in SCI)
- IV. **Fabrication of Curcumin-loaded Gliadin Electrospun Nanofibrous Structures and Bioactive Properties**  
AKMAN P. K. , BOZKURT F., Balubaid M., YILMAZ M. T.  
FIBERS AND POLYMERS, vol.20, no.6, pp.1187-1199, 2019 (Journal Indexed in SCI)
- V. **Development of probiotic carrier dried apples for consumption as snack food with the impregnation of *Lactobacillus paracasei***  
Akman P. K. , Uysal E., Ozkaya G., Törnük F., Durak M. Z.  
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.103, pp.60-68, 2019 (Journal Indexed in SCI)
- VI. **Electrospraying method for fabrication of essential oil loaded-chitosan nanoparticle delivery systems characterized by molecular, thermal, morphological and antifungal properties**  
Yilmaz M. T. , YILMAZ A., AKMAN P. K. , BOZKURT F., Dertli E., BASAHEL A., AL-SASI B., TAYLAN O., SAĞDIÇ O.  
Innovative Food Science and Emerging Technologies, vol.52, pp.166-178, 2019 (Journal Indexed in SCI Expanded)
- VII. **Production of GHK tripeptide embedded poly (vinyl alcohol) nanofibers**  
Kılınç Y., Çakır Koç R., Eren G. Ö. , Akman P. K. , Yılmaz M. T.  
Fresenius Environmental Bulletin, vol.27, no.2, pp.1202-1209, 2018 (Journal Indexed in SCI)
- VIII. **A novel antifungal surface-coating application to limit postharvest decay on coated apples: Molecular, thermal and morphological properties of electrospun zein-nanofiber mats loaded with curcumin**  
YILMAZ A., BOZKURT F., Cicek P. K. , Dertli E., DURAK M. Z. , YILMAZ M. T.  
Innovative Food Science and Emerging Technologies, vol.37, pp.74-83, 2016 (Journal Indexed in SCI Expanded)

### Articles Published in Other Journals

- I. **Improvement of Bioavailability of Sage and Mint by Ultrasonic Extraction**  
Doğan K., Akman P. K. , Törnük F.  
International Journal of Life Sciences and Biotechnology, vol.2, pp.122-135, 2019 (Refereed Journals of Other Institutions)
- II. **Tree barks as potential sources of value-added components for the food industry**  
Doğan K., Akman P. K. , Törnük F.  
International Journal of Food Technology and Nutrition, vol.2, no.3, pp.25-35, 2019 (Refereed Journals of Other Institutions)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Production of fruit based drinks as carriers of probiotic bacteria *Lactobacillus rhamnosus* sp.**  
Akman P. K. , Törnük F., Yetim H.  
10th Probiotics, Prebiotics & New Foods, Rome, Italy, 8 - 10 September 2019, pp.84
- II. **Tree barks as potential sources of value-added components for food industry**  
Doğan K., Akman P. K. , Törnük F.  
International Congress on Natural, Health Sciences and Technology, Tetovo, Macedonia, 15 - 17 May 2019, pp.510-511
- III. **Fruits as carrier for probiotic bacteria: survival of *Lactobacillus paracasei* and *Lactobacillus GG* in persimmon fruit**  
AKMAN P. K. , TÖRNÜK F., TOKER Ö. S.  
European Biotechnology Congress, Athens, Greece, 26 - 28 April 2018, vol.280, no.30

- IV. **A novel probiotic carrier fruit-based snack food: Apricot pestil**  
Uslu E. S. , Ucak G., AKMAN P. K. , TÖRNÜK F.  
European Biotechnology Congress, Athens, Greece, 26 - 28 April 2018, vol.280, no.30
- V. **Edible Films as Carrier for Probiotic Bacteria: Survival of Lactobacillus paracasei in Sodium Alginate Based Films**  
TÖRNÜK F., AKMAN P. K. , Uysal E.  
I. International Agricultural Science Congress, Van, Turkey, 09 May 2018, pp.361
- VI. **Preparation and Characterization of Curcumin Loaded Ovalbumin Nanoparticles**  
TÖRNÜK F., AKMAN P. K. , Bozkurt F.  
I. International Agricultural Science Congress, Van, Turkey, 09 May 2018, pp.343
- VII. **The effect of different extraction methods on total phenolic and antioxidant composition of hawthorn berries**  
UÇAK ÖZKAYA G., AKMAN P. K. , TÖRNÜK F., YETİM H.  
The 4th International Symposium on "Traditional Foods from Adriatic to Caucasus", Kyrenia, Cyprus (Kkct), 19 April 2018, pp.323
- VIII. **New combination strategy of doxorubicin and epoxomicin in biocompatibility: Biodegradable polymeric nanoparticles increase apoptosis in breast cancer cells**  
Kucuksayan E., BOZKURT F., Ozben T., CICEK P. K. , HANİKOĞLU A., YILMAZ M. T.  
European Biotechnology Congress, Dubrovnik, Croatia, 25 - 27 May 2017, vol.256
- IX. **Nanoemulsion-based delivery systems to improve functionality of oregano essential oil: Molecular characterization and in-vitro antifungal activity**  
Yılmaz M. T. , Yılmaz A., Dertli E., Akman P. K. , Ermiş E., Meral R.  
European Biotechnology Congress, Dubrovnik, Croatia, 25 May 2017, pp.5-9
- X. **Development of gliadin based electrospun nanofiber carriers for colloidal delivery of curcumin: Characterization of morphological, fluorescence, molecular, thermal, crystallographic and bioactive properties**  
YILMAZ M. T. , Bozkurt F., AKMAN P. K. , CEYLAN Z.  
Nanotechnology and Nanomaterials (NANO 2017), Chernivtsi, Ukraine, 25 May 2017, pp.74-75
- XI. **Bayburt'un farklı bölgelerinden elde edilen balların GC-MS tekniği ile değerlendirilmesi**  
YILMAZ M. T. , Dertli E., Bozkurt F., CEBI N., AKMAN P. K. , KARA H.  
International Conference on Agriculture, Forest, Food Sciences and Technologies (ICAFOF), Nevşehir, Turkey, 15 May 2017, pp.23-26
- XII. **Polymeric nanofibers for tissue engineering**  
Eren G. Ö. , KILINÇ Y., ÇAKIR KOÇ R., AKMAN P. K. , YILMAZ M. T.  
22nd International Biomedical Science & Technology Symposium, Ankara, Turkey, 12 May 2017, pp.155
- XIII. **Elektro-püskürtme tekniği ile uçucu yağ yüklü kitosan nanoparçacıklarının sentezi, karakterizasyonu ve antifungal özelliklerinin belirlenmesi**  
YILMAZ M. T. , YILMAZ A., DERTLİ E., Bozkurt F., AKMAN P. K.  
Gıda, Metabolizma & Sağlık: Biyoaktif Bileşenler ve Doğal Katkılar Kongresi, İstanbul, Turkey, 28 November 2016, pp.1-3
- XIV. **Şeker Pancarı Posası Pektini ve Şeker Pancarı Posası Modifiye Pektinin Prebiyotik Özelliğinin Belirlenmesi**  
Muslu A., Akman P. K. , Yılmaz M. T.  
Türkiye 12. Gıda Kongresi, Edirne, Turkey, 5 - 07 October 2016, pp.12-17
- XV. **Dinamik ışık saçılım spektroskopisi (DLS) ile zein polimerlerinin mikrorolojik özelliklerinin belirlenmesi**  
Yılmaz M. T. , Poyraz E., Bozkurt F., Akman P. K.  
Türkiye 12. Gıda Kongresi, Edirne, Turkey, 5 - 07 October 2016, pp.17
- XVI. **Antibacterial activity of curcumin loaded gliadin nanofiber mats fabricated by electrospinning technique**  
Yılmaz M. T. , Akman P. K. , Sağdıç O.

- 12th Nanoscience and Nanotechnology Conference, Kocaeli, Turkey, 3 - 05 June 2016
- XVII. **Production of Gliadin Nanoparticles Using Electrospray Deposition System**  
Subaşı B., Akman P. K. , Yılmaz M. T.  
15th International Cereal and Bread Congress, İstanbul, Turkey, 18 - 20 April 2016, pp.89-90
- XVIII. **Kurkumin Yuklu Zein Lifi ile Yuzeyleleri Kaplanan Elmalarda Antifungal Aktivitenin Incelenmesi**  
Bozkurt F., Akman P. K. , Dertli E., Durak M. Z. , Yılmaz M. T.  
18. Ulusal Biyoteknoloji Kongresi, Konya, Turkey, 18 - 20 December 2015, pp.23-25
- XIX. **Elektrodöndürme Tekniği ile Üretilen Gliadin Nanoliflerinden Kurkumin Salınımı**  
Yılmaz M. T. , Bozkurt F., Akman P. K.  
18. Ulusal Biyoteknoloji Kongresi, Konya, Turkey, 18 - 20 December 2015, pp.12
- XX. **The Evaluation of Sugar Profiles of Honey Samples Obtained from Various Regions of Bayburt Using HPLC with Refractive Index Detector**  
Akman P. K. , Dertli E., Yılmaz A., Yılmaz M. T.  
The 3rd International Symposium on "Traditional Foods from Adriatic to Caucasus, Sarajevo, Bosnia And Herzegovina, 1 - 03 October 2015, pp.56-58

## Supported Projects

- TÖRNÜK F., AKMAN P. K. , Bozkurt F., Doğan K., Project Supported by Higher Education Institutions, Lactobacillus plantarum İçeren Probiyotik Taşıyıcısı Yenilebilir Sodyum Aljinat Filmi Üretimi, Karakterizasyonu Ve Gıda Ambalaj Materyali Olarak Kullanım Olanaklarının Araştırılması, 2019 - Continues
- YILMAZ M. T. , AKMAN P. K. , Project Supported by Higher Education Institutions, Elektrosprey kaplama yöntemi ile kurkumin yüklü gliadin nanotaşıyıcılarının üretimi, 2015 - Continues
- YILMAZ M. T. , AKMAN P. K. , BOZKURT F., Project Supported by Higher Education Institutions, Farklı meyve atıklarından elde edilen doğal polimerlerin biyoaktif ve reolojik özelliklerinin belirlenmesi, 2015 - 2019
- TÖRNÜK F., AKMAN P. K. , Project Supported by Higher Education Institutions, Biyoaktif madde yüklü gluten ikame protein kaplı nanotaşıyıcılarının elektrosprey kaplama yöntemi ile üretimi, 2016 - 2018
- TÖRNÜK F., YILMAZ M. T. , AKMAN P. K. , Project Supported by Higher Education Institutions, Gıdalarda kullanılabilir koloidal ovalbumin kaynaklı nanotaşıyıcıların üretimi ve stabilitelerinin belirlenmesi, 2015 - 2018
- TÖRNÜK F., BOZKURT F., AKMAN P. K. , Project Supported by Higher Education Institutions, Kurkumin Taşıyıcısı Olarak Üretilen Ovalbumin Nanopartiküllerinin Karakterizasyonu, 2015 - 2018

## Citations

Total Citations (WOS):47

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