

## Prof. SERPİL ŞAHİN

### Personal Information

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**Address:** METU Dept. of Food Eng. 06800 Ankara

### International Researcher IDs

ScholarID: UFz9ZusAAAAJ

ORCID: 0000-0002-4334-2874

Publons / Web Of Science ResearcherID: D-1529-2010

ScopusID: 7102942717

Yoksis Researcher ID: 2410

### Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Gıda Mühendisliği (Dr), Turkey 1992 - 1997

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, Turkey 1989 - 1992

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, Turkey 1984 - 1989

### Foreign Languages

English, C1 Advanced

### Research Areas

Food Engineering, Food Technology, Food Processing (pasteurisation, sterilisation, refrigeration, lyophilisation, etc.), Engineering and Technology

### Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2008 - Continues  
Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2002 - 2008

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2000 - 2002

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 1997 - 2000

## Academic and Administrative Experience

Head of Department, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2016 - 2022

Middle East Technical University, Faculty of Engineering, Department of Food Engineering, 2005 - 2007

## Courses

Food Processing, Undergraduate, 2019 - 2020

Thermal Process Engineering, Postgraduate, 2016 - 2017

## Supervised Theses

ŞAHİN S., Extraction of dietary fiber from sour cherry (*prunus cerasus l.*) pomace and utilization in low-fat biscuit, Doctorate, D.BAŞKAYA(Student), 2022

ŞAHİN S., ŞÜMNÜ S. G., Encapsulation of caffeic acid in carob bean flour and whey protein-based nanofibers by electrospinning, Postgraduate, S.ZEREN(Student), 2022

ŞAHİN S., ŞÜMNÜ S. G., Magnesium fortification in cakes by using double emulsions with legume flours, Doctorate, C.KABAKCI(Student), 2022

Öztop H. M., Şahin S., Encapsulation of pea protein in alginate matrix by coldset gelation method and use of the capsules in fruit juices, Postgraduate, C.NARİN(Student), 2019

Şümnü S. G., Şahin S., Effects of microwave heating on electrospinning of carob bean flour based nanofibers, Postgraduate, E.UYGUN(Student), 2019

Şümnü S. G., Şahin S., Development of nanofiber based active packaging material by electrospinning technique and food validation, Doctorate, A.AYDOĞDU(Student), 2019

Öztop H. M., Şahin S., Investigating the effect of quince seed powder on alginate hydrogels by magnetic resonance, Postgraduate, İ.ALAÇIK(Student), 2019

Şahin S., Şensoy İ., Effects of fiber content and extrusion conditions on quality of pasta, Postgraduate, S.SOLTA(Student), 2019

ŞAHİN S., ŞÜMNÜ S. G., Production and characterization of chickpea flour based biofilms containing gallic acid, Postgraduate, S.KOCAKULAK(Student), 2019

ŞAHİN S., ŞÜMNÜ S. G., Evaluation of the effects of legume flour incorporation into wafer sheets, Postgraduate, B.TUFAN(Student), 2018

Şümnü S. G., Şahin S., Production of lentil flour and hydroxypropyl methylcellulose based nanofiber by using electrospinning method, Postgraduate, N.TAM(Student), 2018

ŞÜMNÜ S. G., ŞAHİN S., Characterization of pea flour based nanofibers produced by electrospinning method, Postgraduate, S.OĞUZ(Student), 2018

ŞAHİN S., ŞÜMNÜ S. G., Evaluation of different coating materials for encapsulation of phenolic compounds extracted from onion (*Allium cepa*) skin, Postgraduate, B.AKDENİZ(Student), 2017

ŞAHİN S., ŞÜMNÜ S. G., Investigation of sensory and instrumental methods to predict shelf-life of jelly gums, Doctorate, S.TİREKİ(Student), 2017

ŞAHİN S., ÖZTOP H. M., Design of cinnamon oil coated active paper sheets, Postgraduate, D.AKBAŞ(Student), 2017

ŞAHİN S., ŞÜMNÜ S. G., Encapsulation of vitamin b1 using double emulsion method, Doctorate, Ö.YÜCE(Student), 2016

ŞAHİN S., Usage of multiple emulsions to design low fat ice cream, Postgraduate, E.TEKİN(Student), 2016

ŞAHİN S., ŞÜMNÜ S. G., Effects of different flour, gum and protein types on quality of gluten-free cakes, Postgraduate, E.BERK(Student), 2016

ŞAHİN S., ŞÜMNÜ S. G., Modeling of heat and mass transfer in microwave-infrared heating of zucchini, Doctorate, N.YAZICIOĞLU(Student), 2016

ŞAHİN S., ÖZTOP H. M., Effect of high pressure homogenization (microfluidization) on the quality of Ottoman strawberry (*F.ananassa*) juice, Postgraduate, Ç.HELİN(Student), 2015

ŞAHİN S., Enhancement of storage stability of wheat germ oil by encapsulation, Postgraduate, M.KARADENİZ(Student),

2015

ÖZTOP H. M., ŞAHİN S., Effect of high pressure homogenization (microfluidization) on the quality of Ottoman strawberry (F.ananassa) juice, Postgraduate, Ç.Helin(Student), 2015

ŞAHİN S., Dry aging application in home-type refrigerators, Postgraduate, İ.AKINCI(Student), 2015

ŞAHİN S., ŞÜMNÜ S. G., Assesment of pore development, oil and moisture distribution in frying, Postgraduate, B.İŞİK(Student), 2015

ŞAHİN S., HAMAMCI H., Development of lactose free dairy dessert, Postgraduate, S.GARAYEV(Student), 2015

ŞAHİN S., ŞÜMNÜ S. G., Stability of double emulsions for food applications, Postgraduate, M.YILDIRIM(Student), 2015

ŞAHİN S., ŞÜMNÜ S. G., Effect of different flours on quality of gluten-free wafer sheets, Postgraduate, S.MERT(Student), 2014

ŞAHİN S., ŞÜMNÜ S. G., Encapsulation of rosemary essential oil, Postgraduate, H.TURASAN(Student), 2014

ŞAHİN S., ŞÜMNÜ S. G., Development of functional cakes to be baked in microwave-infrared combination oven, Postgraduate, B.CANAN(Student), 2014

ŞAHİN S., ŞÜMNÜ S. G., Microwave-infrared combination drying of eggplants, Postgraduate, A.AYDOĞDU(Student), 2014

ŞAHİN S., ŞÜMNÜ S. G., Effect of different flours on quality of gluten-free wafer sheet, Postgraduate, S.Mert(Student), 2014

ŞAHİN S., ŞÜMNÜ S. G., Development of gluten-free bread formulations for baking in infrared-microwave combination oven, Doctorate, İ.DEMİRKESEN(Student), 2013

ŞAHİN S., ŞÜMNÜ S. G., Encapsulation of wheat germ oil, Postgraduate, B.YAZICIOĞLU(Student), 2013

ŞAHİN S., ŞÜMNÜ S. G., Microwave extraction of phenolic compounds from caper and oleaster, Postgraduate, E.DURMAZ(Student), 2012

ŞAHİN S., ŞÜMNÜ S. G., Microencapsulation of phenolic compounds extracted from sour cherry (Prunus cerasus L.) pomace, Postgraduate, B.ÇİLEK(Student), 2012

ŞAHİN S., ŞÜMNÜ S. G., Effect of nanoencapsulation of purified polyphenolic powder on encapsulation efficiency, storage and baking stability, Postgraduate, A.LUCA(Student), 2012

ŞAHİN S., ŞÜMNÜ S. G., Usage of solar-spouted bed drier in the drying of parboiled wheat, corn and pea, Postgraduate, F.TUNABOYU(Student), 2011

ŞAHİN S., ŞÜMNÜ S. G., Usage of microwave and ultrasound in the extraction of essential oils and phenolic compounds, Postgraduate, A.EMİNE(Student), 2011

ŞAHİN S., ŞÜMNÜ S. G., Design of gluten free rice cake formulations for baking in infrared-microwave combination oven, Doctorate, E.TURABİ(Student), 2010

ŞAHİN S., ŞÜMNÜ S. G., Microwave assisted extraction of phenolic compounds from tomato and sour cherry pomaces, Postgraduate, M.ŞİMŞEK(Student), 2010

ŞÜMNÜ S. G., ŞAHİN S., Effects of different batter formulations on physical and chemical properties of microwave and conventionally fried chicken fingers, Doctorate, I.BARUTÇU(Student), 2009

ŞAHİN S., Usage of spouted bed and microwave assisted spouted bed dryers in bulgur production, Postgraduate, L.NESRİN(Student), 2009

ŞAHİN S., ŞÜMNÜ S. G., Optimization of roasting conditions of hazelnuts in microwave assisted ovens, Postgraduate, N.UYSAL(Student), 2009

ŞAHİN S., ŞÜMNÜ S. G., Effects of xanthan and guar gums on quality and staling of gluten free cakes baked in microwave-infrared combination oven, Postgraduate, H.FİLİZ(Student), 2009

ŞAHİN S., ŞÜMNÜ S. G., Modeling of tempering of frozen potato puree by microwave, infrared assisted microwave and ohmic heating methods, Doctorate, N.SEYHUN(Student), 2008

ŞAHİN S., ŞÜMNÜ S. G., Investigation of quality and staling of breads with different gum formulations baked in different ovens, Doctorate, S.ÖZGE(Student), 2008

ŞAHİN S., Solvent-free microwave extraction and microwave-assisted hydrodistillation of essential oils from spices, Postgraduate, B.BAYRAMOĞLU(Student), 2007

ŞAHİN S., ŞÜMNÜ S. G., Investigation of physical properties of different cake formulations during baking with microwave and infrared-microwave combination, Doctorate, Ö.ŞAKIYAN(Student), 2007

ŞAHİN S., ŞÜMNÜ S. G., Optimization of microwave frying of potato slices, Postgraduate, M.HALİL(Student), 2005

ŞAHİN S., ŞÜMNÜ S. G., Optimization of microwave-halogen lamp baking of bread, Postgraduate,

P.DEMİREKLER(Student), 2004  
ŞAHİN S., Effects of different batter formulations on quality of deep-fat fried carrot slices, Postgraduate, N.AKdeniz(Student), 2004  
ŞAHİN S., ŞÜMNÜ S. G., Optimization of processing conditions during halogen lamp-microwave combination baking of cakes, Postgraduate, K.MELİKE(Student), 2004  
ŞAHİN S., ŞÜMNÜ S. G., Effects of different batter formulations on quality of deep-fat fried chicken nuggets, Postgraduate, S.FİRDEVS(Student), 2004  
ŞAHİN S., ŞÜMNÜ S. G., Recovery of strawberry aroma compounds by pervaporation, Postgraduate, A.İŞÇİ(Student), 2004  
ŞAHİN S., ŞÜMNÜ S. G., Effects of different batter formulations on quality of deep-fat fried carrot slices, Postgraduate, N.AKDENİZ(Student), 2004  
ŞAHİN S., ŞÜMNÜ S. G., Effects of different ovens and enzymes on quality parameters of bread, Postgraduate, S.ÖZGE(Student), 2003  
ŞAHİN S., Functionality of different batters in deep-fat fried chicken nuggets, Postgraduate, B.ALTUNAKAR(Student), 2003  
ŞAHİN S., ŞÜMNÜ S. G., Retardation of staling of microwave baked cakes., Postgraduate, N.SYHUN(Student), 2002  
YILMAZ L., ŞAHİN S., Separation and identification of aroma compounds from thyme by using steam distillation and supercritical fluid extraction., Postgraduate, S.SONSUZER(Student), 2002  
ŞAHİN S., ŞÜMNÜ S. G., Development of non-enzymatic browning in microwave baked breads, Postgraduate, D.ZİNCİRİRAN(Student), 2001  
ŞAHİN S., ŞÜMNÜ S. G., Optimization of microwave baked bread formulation, Postgraduate, Ö.ÖZMUTLU(Student), 2001

## **Jury Memberships**

Associate Professor Exam, Associate Professor Exam, Niğde Ömer Halisdemir Üniversitesi, August, 2021  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Necmettin Erbakan Üniversitesi, February, 2021  
Associate Professor Exam, Associate Professor Exam, Yeditepe Üniversitesi, December, 2020  
Associate Professor Exam, Associate Professor Exam, Çankırı Karatekin Üniversitesi, December, 2020  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Alanya Hamdullah Emin Paşa Üniversitesi, October, 2020  
Associate Professor Exam, Associate Professor Exam, Niğde Ömer Halisdemir Üniversitesi, August, 2020  
Award, TÜBA GEBİP, Yıldız Teknik Üniversitesi, March, 2020  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Çanakkale Onsekiz Mart Üniversitesi, February, 2020  
Appointment to Academic Staff-Professorship, Appointment Academic Staff, Ege Üniversitesi, February, 2020  
Award, Indian Institute of Technology, Doktora Tez ödülü, Indian Institute of Technology, January, 2020  
Doctorate, Doctorate, Ankara Üniversitesi, December, 2019  
Associate Professor Exam, Associate Professor Exam, Ankara Üniversitesi, December, 2019  
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, September, 2019  
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, August, 2019  
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, August, 2019  
Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, July, 2019  
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, June, 2019  
Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, June, 2019  
Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, March, 2019  
Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, March, 2019  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, February, 2019  
Doctoral Examination, Doctoral Examination, Orta Doğu Teknik Üniversitesi, February, 2019

Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, December, 2018

Post Graduate, Post Graduate, Orta Doğu Teknik Üniversitesi, October, 2018

Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, June, 2018

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, June, 2018

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

- I. **Optimization and Characterization of Centrifugally Spun Gelatin-Based Fibers Incorporated with Bay Laurel (*Laurus nobilis* L.) Leaf Essential Oil**  
GÜLER H. G., Basturk Z. S., Yazicioglu N., ŞÜMNÜ S. G., ŞAHİN S.  
FOOD AND BIOPROCESS TECHNOLOGY, vol.18, no.2, pp.1939-1956, 2025 (SCI-Expanded)
- II. **Encapsulation of Olive Leaf Extract by Double Emulsion Method for Enriched Bakery Products: Enhancing Stability and Functionality**  
SÖNMEZLER D., Yazıcıoğlu N., ŞÜMNÜ S. G., ŞAHİN S.  
FOOD AND BIOPROCESS TECHNOLOGY, 2024 (SCI-Expanded)
- III. **Reduction of lipid oxidation in olive oil using gelatin-based centrifugally spun fibers loaded with caffeic acid**  
Guler G. S., YILDIZ E., Yazicioglu N., ŞÜMNÜ S. G., ŞAHİN S.  
Food Bioscience, vol.59, 2024 (SCI-Expanded)
- IV. **Gallic acid crosslinked peanut protein-corn starch composite edible films produced at alkaline pH with ultrasound application**  
Ertan K., ŞAHİN S., ŞÜMNÜ S. G.  
Journal of Applied Polymer Science, vol.141, no.18, 2024 (SCI-Expanded)
- V. **Effects of alkaline pH and gallic acid enrichment on the physicochemical properties of sesame protein and common vetch starch-based composite films**  
Ertan K., ŞAHİN S., ŞÜMNÜ S. G.  
International Journal of Biological Macromolecules, vol.257, 2024 (SCI-Expanded)
- VI. **Carvacrol/cyclodextrin inclusion complex loaded gelatin/pullulan nanofibers for active food packaging applications**  
Ertan K., Celebioglu A., Chowdhury R., Şümnü S. G., Şahin S., Altier C., Uyar T.  
FOOD HYDROCOLLOIDS, vol.142, 2023 (SCI-Expanded)
- VII. **Encapsulation of olive leaf extract using double emulsion method**  
SÖNMEZLER D., ŞÜMNÜ S. G., ŞAHİN S.  
PHYSICS OF FLUIDS, vol.35, no.8, 2023 (SCI-Expanded)
- VIII. **The Effects of Citric Acid Crosslinking on Fabrication and Characterization of Gelatin/Curcumin-Based Electrospun Antioxidant Nanofibers**  
Hasan R., ŞÜMNÜ S. G., ŞAHİN S., ÖZ E., ÖZ F.  
ANTIOXIDANTS, vol.12, no.7, 2023 (SCI-Expanded)
- IX. **Investigation of average crosslink distance and physicochemical properties of gummy candy during storage: Effect of formulation and storage temperature**  
Tireki S., ŞÜMNÜ S. G., ŞAHİN S.  
PHYSICS OF FLUIDS, vol.35, no.5, 2023 (SCI-Expanded)
- X. **Drying of mushrooms by alternative technologies**  
Buğday Z. Y., Ertan K., Zeren S., ŞAHİN S., ŞÜMNÜ S. G.  
Turkish Journal of Agriculture and Forestry, vol.47, no.6, pp.851-871, 2023 (SCI-Expanded)
- XI. **Encapsulation of Caffeic Acid in Carob Bean Flour and Whey Protein-Based Nanofibers via Electrospinning**  
Zeren S., Şahin S., Şümnü S. G.  
Foods, vol.11, no.13, 2022 (SCI-Expanded)

- XII. **Investigation of surface properties of quince seed extract as a novel polymeric surfactant**  
Kirtil E., Svitova T., Radke C. J., ÖZTOP H. M., ŞAHİN S.  
Food Hydrocolloids, vol.123, 2022 (SCI-Expanded)
- XIII. **Examination of interfacial properties of quince seed extract on a sunflower oil-water interface**  
Kirtil E., Kurtkaya E., Svitova T., Radke C. J., ÖZTOP H. M., ŞAHİN S.  
Chemical Engineering Science, vol.245, 2021 (SCI-Expanded)
- XIV. **Heat and mass transfer modeling of microwave infrared cooking of zucchini based on Lambert law**  
Yazicioglu N., ŞÜMNÜ S. G., ŞAHİN S.  
JOURNAL OF FOOD PROCESS ENGINEERING, vol.44, no.12, 2021 (SCI-Expanded)
- XV. **Encapsulation of Magnesium with Lentil Flour by Using Double Emulsion to Produce Magnesium Enriched Cakes**  
Kabakcı C., Şümnü S. G., Şahin S., Öztop H. M.  
Food and Bioprocess Technology, vol.14, no.10, pp.1773-1790, 2021 (SCI-Expanded)
- XVI. **Correlation between physical and sensorial properties of gummy confections with different formulations during storage**  
Tireki S., ŞÜMNÜ S. G., ŞAHİN S.  
Journal of Food Science and Technology, vol.58, no.9, pp.3397-3408, 2021 (SCI-Expanded)
- XVII. **Current applications of exopolysaccharides from lactic acid bacteria in the development of food active edible packaging**  
Moradi M., Guimarães J. T., Şahin S.  
CURRENT OPINION IN FOOD SCIENCE, vol.40, pp.33-39, 2021 (SCI-Expanded)
- XVIII. **Green processing of sour cherry (*Prunus cerasus* L.) pomace: process optimization for the modification of dietary fibers and property measurements**  
Sezer D. B., Ahmed J., ŞÜMNÜ S. G., ŞAHİN S.  
JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION, vol.15, no.4, pp.3015-3025, 2021 (SCI-Expanded)
- XIX. **Encapsulation of Grape Seed Extract in Rye Flour and Whey Protein-Based Electrospun Nanofibers**  
Aslaner G., ŞÜMNÜ S. G., ŞAHİN S.  
FOOD AND BIOPROCESS TECHNOLOGY, vol.14, no.6, pp.1118-1131, 2021 (SCI-Expanded)
- XX. **Development of pea flour based active films produced through different homogenization methods and their effects on lipid oxidation**  
YILDIZ E., Bayram İ., Sumnu G., ŞAHİN S., Ibis O. I.  
FOOD HYDROCOLLOIDS, 2021 (SCI-Expanded)
- XXI. **NMR Relaxometry and magnetic resonance imaging as tools to determine the emulsifying characteristics of quince seed powder in emulsions and hydrogels**  
Alacik Develioglu I., ÖZEL B., ŞAHİN S., Oztop M. H.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.164, pp.2051-2061, 2020 (SCI-Expanded)
- XXII. **Encapsulation of pea protein in an alginate matrix by cold set gelation method and use of the capsules in fruit juices**  
Narin C., Ertugrul Ü., Tas O., Sahin S., Oztop M. H.  
JOURNAL OF FOOD SCIENCE, vol.85, no.10, pp.3423-3431, 2020 (SCI-Expanded)
- XXIII. **Microwave Pretreatment for the Improvement of Physicochemical Properties of Carob Flour and Rice Starch-Based Electrospun Nanofilms**  
Uygun E., YILDIZ E., Sumnu G., ŞAHİN S.  
FOOD AND BIOPROCESS TECHNOLOGY, vol.13, no.5, pp.838-850, 2020 (SCI-Expanded)
- XXIV. **Enhancing oxidative stability of walnuts by using gallic acid loaded lentil flour based electrospun nanofibers as active packaging material**  
Aydogdu A., Yıldız E., Aydogdu Y., Sumnu G., Şahin S., Ayhan Z.  
Food Hydrocolloids, vol.95, pp.245-255, 2019 (SCI-Expanded)
- XXV. **Chickpea flour-based biofilms containing gallic acid to be used as active edible films**  
Kocakulak S., Sumnu G., ŞAHİN S.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.136, no.26, 2019 (SCI-Expanded)

- XXVI. **Effects of Microwave-Assisted Baking on Quality of Gluten-free Cakes and Breads**  
YILDIZ E., Sumnu G., ŞAHİN S.  
CEREAL FOODS WORLD, vol.64, no.4, 2019 (SCI-Expanded)
- XXVII. **Fabrication of gallic acid loaded Hydroxypropyl methylcellulose nanofibers by electrospinning technique as active packaging material**  
Aydogdu A., Şümnü S. G., Şahin S.  
CARBOHYDRATE POLYMERS, vol.208, pp.241-250, 2019 (SCI-Expanded)
- XXVIII. **Nanostructured poly(lactic acid)/soy protein/HPMC films by electrospinning for potential applications in food industry**  
Aydogdu A., Yıldız E., Ayhan Z., Aydoğdu Y., Şümnü S. G., Şahin S.  
EUROPEAN POLYMER JOURNAL, vol.112, pp.477-486, 2019 (SCI-Expanded)
- XXIX. **Monitoring the Effects of Ingredients and Baking Methods on Quality of Gluten-Free Cakes by Time-Domain (TD) NMR Relaxometry**  
Yıldız E., Güner S., Sumnu G., Şahin S., Oztop M. H.  
FOOD AND BIOPROCESS TECHNOLOGY, vol.11, pp.1923-1933, 2018 (SCI-Expanded)
- XXX. **Determination of oil and moisture distribution in fried potatoes using magnetic resonance imaging**  
ISIK B., ŞAHİN S., Oztop M. H.  
JOURNAL OF FOOD PROCESS ENGINEERING, vol.41, no.6, 2018 (SCI-Expanded)
- XXXI. **Microencapsulation of phenolic compounds extracted from onion (Allium cepa) skin**  
AKDENİZ B., Sumnu G., ŞAHİN S.  
JOURNAL OF FOOD PROCESSING AND PRESERVATION, vol.42, no.7, 2018 (SCI-Expanded)
- XXXII. **Development of novel pea flour-based nanofibres by electrospinning method**  
OĞUZ S., TAM N., Aydogdu A., Sumnu G., ŞAHİN S.  
INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, vol.53, no.5, pp.1269-1277, 2018 (SCI-Expanded)
- XXXIII. **Enhancement of storage stability of wheat germ oil by encapsulation**  
KARADENİZ M., ŞAHİN S., Sumnu G.  
Industrial Crops and Products, vol.114, pp.14-18, 2018 (SCI-Expanded)
- XXXIV. **A novel electrospun hydroxypropyl methylcellulose/polyethylene oxide blend nanofibers: Morphology and physicochemical properties**  
AYDOĞDU A., Sumnu G., ŞAHİN S.  
CARBOHYDRATE POLYMERS, vol.181, pp.234-246, 2018 (SCI-Expanded)
- XXXV. **Effects of addition of different fibers on rheological characteristics of cake batter and quality of cakes**  
Aydogdu A., Sumnu G., ŞAHİN S.  
JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, vol.55, no.2, pp.667-677, 2018 (SCI-Expanded)
- XXXVI. **Effects of buckwheat flour, gums and proteins on rheological properties of gluten-free batters and structure of cakes**  
YILDIZ E., ŞÜMNÜ S. G., ŞAHİN S.  
QUALITY ASSURANCE AND SAFETY OF CROPS & FOODS, vol.10, no.3, pp.245-254, 2018 (SCI-Expanded)
- XXXVII. **Characterization of different double-emulsion formulations based on food-grade emulsifiers and stabilizers**  
PULATSU E. T., ŞAHİN S., Sumnu G.  
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.39, no.7, pp.996-1002, 2018 (SCI-Expanded)
- XXXVIII. **Influence of solution properties and pH on the fabrication of electrospun lentil flour/HPMC blend nanofibers**  
Tam N., OĞUZ S., Aydogdu A., Sumnu G., ŞAHİN S.  
FOOD RESEARCH INTERNATIONAL, vol.102, pp.616-624, 2017 (SCI-Expanded)
- XXXIX. **Physicochemical, rheological, and sensory properties of low-fat ice cream designed by double emulsions**  
TEKİN E., ŞAHİN S., Sumnu G.

- EUROPEAN JOURNAL OF LIPID SCIENCE AND TECHNOLOGY, vol.119, no.9, 2017 (SCI-Expanded)
- XL. **Preparation and characterization of W/O/W type double emulsion containing PGPR-lecithin mixture as lipophilic surfactant**  
ALTUNTAS O. Y., Sumnu G., ŞAHİN S.  
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.38, no.4, pp.486-493, 2017 (SCI-Expanded)
- XLI. **The effects of emulsifier type, phase ratio, and homogenization methods on stability of the double emulsion**  
YILDIRIM M., Sumnu G., ŞAHİN S.  
JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.38, no.6, pp.807-814, 2017 (SCI-Expanded)
- XLII. **Rheology, particle-size distribution, and stability of low-fat mayonnaise produced via double emulsions**  
YILDIRIM M., Sumnu G., ŞAHİN S.  
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- I. **KARANFİL VE KEKİK YAĞLARIYLA HAZIRLANMIŞ NANOEMÜLSİYONLARIN ZAMANSAL ALANDA NMR RELAKSOMETRE TEKNİĞİ İLE İNCELENMESİ**  
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- II. **Effect of Formulation on Sugar Profiles of Gummy Confections During Storage at Different Temperatures**  
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TUBITAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, October 2021

Lentils: Production, Processing Technologies, Products and Nutritional Profile, Scientific / Professional Book Published by Renowned Publishing Houses, September 2021

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , Middle East Technical University, Turkey, May 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , Middle East Technical University, Turkey, May 2021

TUBITAK Project, 2210-c Domestic Priority Areas Graduate Scholarship Program , Middle East Technical University, Turkey, May 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, May 2021

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, March 2021

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, March 2021

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, January 2021

TUBITAK Project, 1002 - Quick Support Program, Izmir Katip Celebi University, Turkey, December 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, ABBA İÇ DIŞ TİCARET VE DANIŞMANLIK LİMİTED ŞİRKETİ, Turkey, November 2020

TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Necmettin Erbakan University, Turkey, November 2020

TUBITAK Project, 1002 - Quick Support Program, Erciyes University, Turkey, November 2020

TUBITAK Project, 1002 - Quick Support Program, Ege University, Turkey, August 2020

TUBITAK Project, 1002 - Quick Support Program, Ordu University, Turkey, May 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Necmettin Erbakan University, Turkey, May 2020

TUBITAK Project, 1002 - Quick Support Program, Bolu Abant İzzet Baysal University, Turkey, April 2020

TUBITAK Project, 1002 - Quick Support Program, Ege University, Turkey, February 2020

TUBITAK Project, 1002 - Quick Support Program, Ege University, Turkey, February 2020

Legume Science, Other Indexed Journal, January 2020

FOOD AND BIOPROCESS TECHNOLOGY, Journal Indexed in SCI-E, January 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Adana Alparslan Türkeş Science And Technology University, Turkey, January 2020

TUBITAK Project, 1501 - Industry R & D Projects Support Program, AKSUVİTAL DOĞAL ÜRÜNLER GIDA SANAYİ VE TİCARET ANONİM ŞİRKETİ, Turkey, January 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ondokuz Mayıs University, Turkey, January 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, January 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2019

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, December 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2019

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, October 2019

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, August 2019

TUBITAK Project, 3001 - Initial R&D Projects Support Program, Middle East Technical University, Turkey, July 2019

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, July 2019

TÜBİTAK - AB COST Project, Middle East Technical University, Turkey, April 2019

TUBITAK Project, 1005 - National New Ideas and Products Research Support Program, Middle East Technical University, Turkey, April 2019

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, April 2019

TUBITAK Project, 1002 - Quick Support Program, Middle East Technical University, Turkey, April 2019

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, February 2019

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, February 2019

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Middle East Technical University, Turkey, December 2018

Universities of Other Countries Supported Project, Kuwait University, Kuwait, June 2018

1st International Food and Medicine Congress IFMC2018, Conference Paper (Abstract), May 2018

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Ogannaturel Bitkisel Sağlık Ürünleri Gıda Kozm. Tar. Hayv. Kimya.Mad.Sa.ve Tic.Ltd.Şti, Turkey, April 2018

TUBITAK Project, 1501 - Industry R & D Projects Support Program, Aksuvital Doğal Ürünler Gıda Sanayi ve Ticaret A.Ş., Turkey, February 2018

## **Tasks In Event Organizations**

Şahin S., Tekin A., Vural H., Çekmecelioğlu D., 1St International/11Th National Food Engineering Congress, Scientific Congress, Antalya, Turkey, Kasım 2019

Şahin S., International Conference on Raw Materials to Processed Foods, Scientific Congress, Antalya, Turkey, Nisan 2018

## **Metrics**

Publication: 189

Citation (WoS): 4960

Citation (Scopus): 6162

H-Index (WoS): 45

H-Index (Scopus): 51

## **Non Academic Experience**

Ohio State Univ., Misafir araştırmacı