

# Prof. SERVET GÜLÜM ŞÜMNÜ

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: E-3885-2010

ScopusID: 6601974967

Yoksis Researcher ID: 2970

## Education Information

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Gıda Mühendisliği (Dr), Turkey 1994 - 1997

Postgraduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Gıda Mühendisliği (YI) (Tezli), Turkey 1991 - 1994

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Food Engineering, Turkey 1987 - 1991

## Foreign Languages

English, C1 Advanced

## Research Areas

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

## Courses

MICROWAVE PROCESSING OF FOODS, Postgraduate, 2019 - 2020, 2018 - 2019

Food Quality Control, Undergraduate, 2018 - 2019

## Advising Theses

Şümnü S. G., Şahin S., The effects of citric acid crosslinking on fabrication and characterization of gelatin/curcumin-based electrospun antioxidant nanofibers, Postgraduate, R.HASAN(Student), 2023

Öztop H. M., Şümnü S. G., FORMULATION AND CHARACTERIZATION OF A FUNCTIONALIZED TOMATO SNACK BAR, Postgraduate, M.RASİM(Student), 2023

Şümnü S. G., Şahin S., Encapsulation of olive leaf extract by double emulsion method, Postgraduate, D.SÖNMEZLER(Student), 2023

Kahyaoğlu L. N., ŞÜMNÜ S. G., CURCUMIN-INCORPORATED COMPOSITE ACTIVE FILMS BASED ON CHITIN AND GLUCAN COMPLEXES EXTRACTED FROM AGARICUS BISPORUS, Postgraduate, E.KAYA(Student), 2023

Öztop H. M., Şümnü S. G., SUCROSE CRYSTALLIZATION BY USING MICROWAVE-VACUUM EVAPORATION, Postgraduate, Ö.ILGIN(Student), 2023

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

KAHYAOĞLU L. N., ŞÜMNÜ S. G., Food spoilage monitoring using carbon nanodots and uv irradiation reinforced colorimetric fish gelatin films, Postgraduate, M.BEYZA(Student), 2022

KAHYAOĞLU L. N., ŞÜMNÜ S. G., Utilization of curcumin and biodegradable polymers in intelligent and active food packaging, Doctorate, E.YILDIZ(Student), 2022

Öztop H. M., ŞÜMNÜ S. G., Development of a time domain (TD) NMR approach by using the relation between molecular mobility and crystallization behavior to quantify caking in food powders, Doctorate, S.GÜNER(Student), 2022

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

ŞÜMNÜ S. G., Encapsulation of grape seed extract in rye flour and whey protein-based electrospun nanofibers, Postgraduate, G.ASLANER(Student), 2021

Öztop H. M., ŞÜMNÜ S. G., IMPROVEMENT OF PEA PROTEINS' PROPERTIES BY MICROWAVE GLYCATION, Postgraduate, Ü.ERTUĞRUL(Student), 2020

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

Şümnü S. G., Öztop H. M., Microwave glycation of soy protein isolate, Postgraduate, S.NAMLI(Student), 2019

Şümnü S. G., Öztop H. M., Physicochemical and structural characterization of microfluidized and sonicated legume starches, Postgraduate, A.BİTİK(Student), 2019

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

Şümnü S. G., Öztop H. M., Utilization of phenolic compounds extracted from different agricultural wastes through various encapsulation methods, Doctorate, B.ÇİLEK(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 the effects of legume flour incorporation into wafer sheets, Postgraduate,

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

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

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

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

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., 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., Effect of nanoencapsulation of purified polyphenolic powder on encapsulation efficiency, storage and baking stability, Postgraduate, A.LUCA(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., Usage of microwave and ultrasound in the extraction of essential oils and phenolic compounds, Postgraduate, A.EMİNE(Student), 2011

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., 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, İ.BARUTÇU(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., Optimization of roasting conditions of hazelnuts in microwave assisted ovens, Postgraduate, N.UYSAL(Student), 2009

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

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

ŞÜMNÜ S. G., Infrared-assisted microwave drying in the production of bread crumbs, Postgraduate, S.TİREKİ(Student),

2005

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

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., Optimization of processing conditions during halogen lamp-microwave combination baking of cakes, Postgraduate, K.MELİKE(Student), 2004

ŞAHİN S., ŞÜMNÜ S. G., Optimization of microwave-halogen lamp baking of bread, Postgraduate, P.DEMİREKLER(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., Recovery of strawberry aroma compounds by pervaporation, Postgraduate, A.İŞÇİ(Student), 2004

ŞÜMNÜ S. G., Optimization of Processing Conditions During Halogen Lamp-Microwave Baking of Cakes, Postgraduate, K.Melike(Student), 2004

ŞAHİN S., ŞÜMNÜ S. G., Effects of different ovens and enzymes on quality parameters of bread, Postgraduate, S.ÖZGE(Student), 2003

ŞÜMNÜ S. G., Comparison of microwave drying and microwave mixed-bed drying of red papers, Postgraduate, Ö.SEÇMELER(Student), 2003

ŞÜMNÜ S. G., Fluidized bed, microwave and microwave assisted fluidized bed drying of macaroni beads, Postgraduate, E.İRAZ(Student), 2003

ŞAHİN S., ŞÜMNÜ S. G., Retardation of staling of microwave baked cakes., Postgraduate, N.SEHUN(Student), 2002

ŞAHİN S., ŞÜMNÜ S. G., Development of non-enzymatic browning in microwave baked breads, Postgraduate, D.ZİNCİRKIRAN(Student), 2001

ŞAHİN S., ŞÜMNÜ S. G., Optimization of microwave baked bread formulation, Postgraduate, Ö.ÖZMUTLU(Student), 2001

## Jury Memberships

Award, TÜBİTAK Bilim Ödülü, Orta Doğu Teknik Üniversitesi, August, 2022

Award, TÜBA -GEBİP, Orta Doğu Teknik Üniversitesi, June, 2018

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

- I. **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)
- II. **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)
- III. **Physicochemical and sensorial properties of tomato leathers at different drying conditions**  
Basdemir E., Ince A. E., Kizgin S., ÖZEL B., Ozarda O., ŞÜMNÜ S. G., ÖZTOP H. M.  
Journal of Food Science, vol.89, no.5, pp.2659-2671, 2024 (SCI-Expanded)
- IV. **Crystallization of sucrose by using microwave vacuum evaporation**  
Ibis O. I., Bugday Y. B., Aljurf B. N., Goksu A. O., Solmaz H., ÖZTOP H. M., ŞÜMNÜ S. G.  
Journal of Food Engineering, vol.365, 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. **Banana starch modified by heat moisture treatment and annealing: Study on digestion kinetics and enzyme affinity**  
Cahyana Y., Annisa N. D. N., Khoerunnisa T. K., Sulastri S., Marta H., Rialita T., Yuliana T., Ait-Kaddour A., ŞÜMNÜ S. G.  
International Journal of Biological Macromolecules, vol.258, 2024 (SCI-Expanded)
- VII. **Effect of microwave-vacuum drying on the physicochemical properties of a functional tomato snack bar**  
Gul M. R., Ince A. E., ÖZEL B., Uslu A. K., Çetin M., Menten D., ŞÜMNÜ S. G., ÖZTOP H. M.  
Journal of the Science of Food and Agriculture, vol.104, no.1, pp.83-92, 2024 (SCI-Expanded)
- VIII. **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, 2024 (SCI-Expanded)
- IX. **Caffeic Acid Encapsulated Centrifugally Spun Antioxidant Fibers: Characterization and Incorporation in Cakes**  
GÜLER H. G., ŞÜMNÜ S. G., Yazicioglu N.  
Food and Bioprocess Technology, 2024 (SCI-Expanded)
- X. **Influence of multiple parameters on the crystallinity of dairy powders**  
GÜNER ŞAN S., Grunin L., Kaner O., ŞÜMNÜ S. G., ÖZTOP H. M.  
International Dairy Journal, vol.147, 2023 (SCI-Expanded)
- XI. **Effects of deacetylation degree of chitosan on the structure of aerogels**  
NAMLI S., GÜVEN Ö., Simsek F. N., Gradišek A., ŞÜMNÜ S. G., YENER M. E., ÖZTOP H. M.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.250, 2023 (SCI-Expanded)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **Active Films Based on Faba Bean (*Vicia faba* L.) Flour Incorporated with Sumac (*Rhus coriaria*): Assessment of Antioxidant and Antimicrobial Performances of Packaging for Shelf Life of Chicken Breast**  
Emir A. A., YILDIZ E., AYDOĞDU Y., ŞÜMNÜ S. G.  
FOOD AND BIOPROCESS TECHNOLOGY, vol.16, no.2, pp.327-341, 2023 (SCI-Expanded)
- XVII. **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)
- XVIII. **Citric acid cross-linked curcumin/chitosan/chickpea flour film: An active packaging for chicken breast storage**  
Yildiz E., Emir A. A., Sumnu G., Kahyaoglu L. N.  
FOOD BIOSCIENCE, vol.50, 2022 (SCI-Expanded)
- XIX. **Development of curcumin incorporated composite films based on chitin and glucan complexes**

- extracted from Agaricus bisporus for active packaging of chicken breast meat**  
Kaya E., KAHYAOĞLU L. N., ŞÜMNÜ S. G.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.221, pp.536-546, 2022 (SCI-Expanded)
- XX. **Assessment of curcumin incorporated chickpea flour/PEO (polyethylene oxide) based electrospun nanofiber as an antioxidant and antimicrobial food package**  
YILDIZ E., ŞÜMNÜ S. G., KAHYAOĞLU L. N.  
FOOD AND BIOPRODUCTS PROCESSING, vol.135, pp.205-216, 2022 (SCI-Expanded)
- XXI. **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)
- XXII. **Use of Solid Echo Sequence to Monitor Crystallization Kinetics of Mono and Di-Saccharides**  
GÜNER S., Grunin L., ŞÜMNÜ S. G., Oztop M. H.  
FOOD BIOPHYSICS, vol.16, no.4, pp.502-511, 2021 (SCI-Expanded)
- XXIII. **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)
- XXIV. **Pea protein properties are altered following glycation by microwave heating**  
ERTUĞRUL Ü., NAMLI S., TAŞ O., KOCADAĞLI T., GÖKMEN V., ŞÜMNÜ S. G., ÖZTOP H. M.  
LWT, vol.150, 2021 (SCI-Expanded)
- XXV. **Encapsulation of Magnesium with Lentil Flour by Using Double Emulsion to Produce Magnesium Enriched Cakes**  
Kabakçı C., Şümnü S. G., Şahin S., Öztop H. M.  
Food and Bioprocess Technology, vol.14, no.10, pp.1773-1790, 2021 (SCI-Expanded)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **Microwave glycation of soy protein isolate with rare sugar (D-allulose), fructose and glucose**  
NAMLI S., ŞÜMNÜ S. G., ÖZTOP H. M.  
Food Bioscience, vol.40, 2021 (SCI-Expanded)
- XXX. **Monitoring freshness of chicken breast by using natural halochromic curcumin loaded chitosan/PEO nanofibers as an intelligent package**  
YILDIZ E., ŞÜMNÜ S. G., KAHYAOĞLU L. N.  
International Journal of Biological Macromolecules, vol.170, pp.437-446, 2021 (SCI-Expanded)
- XXXI. **Development of pea flour based active films produced through different homogenization methods and their effects on lipid oxidation**  
YILDIZ E., Bayram I., Sumnu G., ŞAHİN S., Ibis O. I.  
Food Hydrocolloids, vol.111, 2021 (SCI-Expanded)
- XXXII. **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)
- XXXIII. **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)

**XXXIV. 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)

**XXXV. Physicochemical and Structural Characterization of Microfluidized and Sonicated Legume Starches**

Bitik A., Sumnu G., Oztop M.  
Food and Bioprocess Technology, vol.12, no.7, pp.1144-1156, 2019 (SCI-Expanded)

**XXXVI. 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)

**XXXVII. Determination of pasteurization treatment of liquid whole egg by measuring physical and rheological properties of cake cream**

Uysal R. S., BOYACI İ. H., Sumnu G.  
JOURNAL OF FOOD PROCESS ENGINEERING, vol.42, no.6, 2019 (SCI-Expanded)

**XXXVIII. Microcapsule characterization of phenolic powder obtained from strawberry pomace**

Çilek Tatar B., Sumnu G., Oztop M.  
Journal of Food Processing and Preservation, vol.43, no.6, 2019 (SCI-Expanded)

**XXXIX. Effects of heat-treated liquid whole egg on cake batter rheology and the quality of baked cake**

Uysal R. S., Sumnu G., Boyaci I. H.  
JOURNAL OF FOOD PROCESS ENGINEERING, vol.42, no.2, 2019 (SCI-Expanded)

**XL. 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)

**XLI. 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)

**XLII. 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)

**XLIII. 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)

**XLIV. Utilization of lentil flour as a biopolymer source for the development of edible films**

Aydogdu A., KIRTİL E., Sumnu G., Oztop M. H., Aydogdu Y.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.135, no.23, 2018 (SCI-Expanded)

**XLV. 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)

**XLVI. 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)

**XLVII. 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)

- XLVIII. Effects of addition of different fibers on rheological characteristics of cake batter and quality of cakes**  
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- II. **The effects of crosslinking agents on faba bean flour–chitosan–curcumin films and their characterization**  
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- III. **Legume-based products—Editorial**  
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- IV. **Gallic acid encapsulated pea flour-based nanofibers produced by electrospinning as a potential active food packaging material**  
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- V. **EFFECTS OF HYDROCOLLOIDS AND CAROB BEAN FLOUR ON RHEOLOGICAL PROPERTIES OF BATTER AND CAKE QUALITY**  
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2020 7th International Conference on Food Security and Nutrition (ICFSN 2020), Amsterdam, Netherlands, 13 - 15 March 2020
- II. **COMPARISON OF THE CRYSTALLINITY KINETICS OF D-ALLULOSE, LACTOSE AND SUCROSE BY USING TIME DOMAIN (1H) NMR**  
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- III. **Effect of Formulation on the Glass Transition Temperature of Sugar Confectionery during Storage**  
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- V. **Dielectric properties of sour cherry (Prunus Cerasus L.) POMACE: influence of frequency, concentration, PH, temperature and particle size**  
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Güner S., Şümnü S. G., Grunin L., Öztop H. M.  
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Yıldız E., Güner S., Şümnü S. G., Şahin S., Öztop H. M.

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- IX. **Ingredient effects on the stability of jelly gums during storage**  
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- XIV. **Reducing oil content of mayonnaise by using double emulsion**  
ŞAHİN S., ŞÜMNÜ S. G., YILDIRIM M.  
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- XVII. **Effects of legume flours on batter rheology and cake physical quality**  
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- XVIII. **Stability of double emulsions for food applications**  
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- XIX. **Quality of cakes formulated with different legume flours and baked in different ovens**  
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- XXII. **Değişik Formülasyonların ve Homojenizasyon Yöntemlerinin İkili Emülsiyon Üzerine Etkisi**  
YILDIRIM M., ŞÜMNÜ S. G., ŞAHİN S.



9. Gıda Mühendisliği Kongresi, İzmir, Turkey, 12 - 14 November 2015, pp.19
- XXIII. **Çavdar Ununun Ekmek Hamurunun Fiziksel Özellikleri Üzerine Etkisinin İncelenmesi**  
Erkılıç U., ÖZTOP H. M., ŞÜMNÜ S. G.  
9. Gıda Mühendisliği Kongresi, Turkey, 12 - 14 November 2015
- XXIV. **Encapsulation of vitamin B12 using double emulsion as carrier** September  
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- XXVII. **The Effect of Microwave Infrared Combination Drying on Quality of Osmotically Dehydrated Eggplants** 10 12 August 2015 London UK P 144  
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- XXVIII. **Mikrodalga kızıl ötesi kombinasyonu ile kurutmanın ön işlem görmüş patlıcanların kuruma davranışı üzerindeki etkileri**  
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karadeniz m., ŞAHİN S., ŞÜMNÜ S. G.  
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ŞÜMNÜ S. G., ŞAHİN S., Project Supported by Higher Education Institutions, Aktif gıda ambalajlama için bezelye unu bazı gallik asit içeren biyofilmlerin geliştirilmesi, 2020 - 2021

ŞÜMNÜ S. G., BAŞKAYA SEZER D., Project Supported by Higher Education Institutions, VİŞNE POSASINDAN (PRUNUS CERASUS L.) DİYET LİF EKSTRAKSİYONU VE DÜŞÜK YAĞLI BİSKÜVİ YAPIMINDA KULLANIMI, 2018 - 2019

ŞÜMNÜ S. G., CENGİZ S., Project Supported by Higher Education Institutions, MİKRODALGA İLE KAYISI KURUTULMASI VE KALİTESİNİN İNCELENMESİ, 2018 - 2019

ŞÜMNÜ S. G., BERK E., Project Supported by Higher Education Institutions, MİKRODALGANIN NANO LİF VE YENİLENEBİLİR FÜLM ÜRETİMİ ÜZERİNE ETKİSİ, 2018 - 2019

ŞÜMNÜ S. G., KOCAKULAK S., Project Supported by Higher Education Institutions, GALİK ASİT İÇEREN VE NOHUT UNUNDAN ELDE EDİLEN BİYOFİLMLEİN ÜRETİLMESİ VE KARAKTERİZASYONU, 2018 - 2019

ŞÜMNÜ S. G., DİLER C., Project Supported by Higher Education Institutions, ÇİFT KATMANLI FORTİFİKATİON IN BREAD BY USING DOUBLE EMULSIONS, 2018 - 2019

ŞÜMNÜ S. G., YILDIZ BULUT E., Project Supported by Higher Education Institutions, ALIÇ'TAN ÖZÜTLENEN TRİTERPENLEİN ENKAPSÜLASYONU VE ISIL DAYANIKLILIKLARININ ARAŞTIRILMASI, 2018 - 2019

ŞÜMNÜ S. G., ÖZTOP H. M., BİTİK A., Project Supported by Higher Education Institutions, Baklagil nişastalarının mikroakışkanlaştırma ve ultrasonikasyon yöntemleri kullanılarak modifiye edilmesi, 2018 - 2019

ŞAHİN S., ŞÜMNÜ S. G., BERK E., Project Supported by Higher Education Institutions, KIZIL ÖTESİ-MİKRODALGA FIRINDA PİŞİRİLMEME UYGUN KEÇİBOYNUZU UNU İÇEREN KEK FORMÜLASYONLARININ TASARLANMASI, 2017 - 2017

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ŞÜMNÜ S. G., ŞAHİN S., Project Supported by Higher Education Institutions, Aktif ambalaj ile cevizin raf ömrünün uzatılması, 2016 - 2017

ŞÜMNÜ S. G., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

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ŞÜMNÜ S. G., ŞAHİN S., Project Supported by Higher Education Institutions, B grubu vitaminlerinin enkapsülasyonu, 2015 - 2015

ŞÜMNÜ S. G., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

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ŞÜMNÜ S. G., Şenel C., ŞAHİN S., Project Supported by Higher Education Institutions, ULTRA-SONİKASYON YÖNTEMİ İLE KEKLERDEKİ YAĞ İÇERİĞİNİN AZALTILMASI, 2014 - 2014

ŞÜMNÜ S. G., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

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ŞÜMNÜ S. G., PEKER B. C., Project Supported by Higher Education Institutions, MİKRODALGA-KIZIL ÖTESİ FIRINDA PİŞİRİLMEK ÜZERE FONKSİYONEL KEKLEİN GELİŞTİRİLMESİ, 2013 - 2013

ŞÜMNÜ S. G., AYAZ E., Project Supported by Higher Education Institutions, KARAYEMİŞ MEYVESİNDEN ELDE EDİLEN

FENOLİK MADDELERİN KAPSÜLLENMESİ VE DENEY ORTAMINDAKİ SİNDİRİM DAVRANIŞLARININ MANYETİK REZONANS GÖRÜNTÜLEME TEKNİĞİ KULLANILARAK ARAŞTIRILMASI, 2013 - 2013

ŞÜMNÜ S. G., Project Supported by Higher Education Institutions, Kaparideki Fenolik Bileşenlerinmikrodalga İle Özütleme, 2010 - 2010

ŞÜMNÜ S. G., Project Supported by Higher Education Institutions, Domates Posasındaki Fenolik Bileşenlerin Mikrodalga İle Özütleme, 2009 - 2009

## Activities in Scientific Journals

FOODS, Committee Member, 2022 - Continues

LEGUME SCIENCE, Committee Member, 2019 - Continues

Food And Bioprocess Technology, Committee Member, 2010 - Continues

LEGUME SCIENCE, Special Issue Editor, 2021 - 2022

## Memberships / Tasks in Scientific Organizations

TÜBİTAK-TOVAG, Member of Advisory Board, 2017 - 2020, Turkey

## Scientific Refereeing

Project Supported by Public Organizations in Other Countries, Fondazione Cariplo, Italy, October 2022

Project Supported by Public Organizations in Other Countries, Fondazione Cariplo, Turkey, October 2022

TUBİTAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2022

TUBİTAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2022

TUBİTAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2022

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TUBİTAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, March 2022

FOOD AND BIOPROCESS TECHNOLOGY, SCI Journal, August 2021

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

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

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TUBİTAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Middle East Technical University, Turkey, July 2020

Project Supported by Public Organizations in Other Countries, Fobrio, Turkey, September 2019

TUBİTAK Project, 1501 - Industry R & D Projects Support Program, Middle East Technical University, Turkey, February 2018

## **Metrics**

Publication: 205

Citation (WoS): 4624

Citation (Scopus): 6219

H-Index (WoS): 41

H-Index (Scopus): 50

## **Awards**

Aydođdu A., Yıldız E., Aydođdu Y., Őümnü S. G., Őahin S., 2021 Early Career Researcher Competition, Wiley-Legume Science, July 2021

## **Non Academic Experience**

The Ohio State University