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Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Gıda Mühendisiği Bölümü, Turkey 2011 - 2017 Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Gıda Mühendisliği, Turkey 2009 - 2011 Undergraduate, Hacettepe University, Mühendislik Fakültesi, Gıda Mühendisliği, Turkey 2005 - 2009

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Investigation of chemical reactions in hazelnut induced by roasting, Hacettepe Üniversitesi, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 2017

Postgraduate, Kızartma yağlarında termal proses indikatörü olarak hidroksimetilfurfural varlığının incelenmesi, Hacettepe University, Fen Bilimleri Enstitüsü, Gıda Mühendisliği A.B.D., 2011

Research Areas

Food Engineering, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Gıda Mühendisliği Bölümü, 2019 - Continues

Advising Theses

Taş N., Mitigation of acrylamide formation in bakery products by using asparaginase enzyme, Postgraduate, S.GAZİ(Student), 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. Modelling of perceived sweetness in biscuits based on sensory analysis as a new tool to evaluate reformulation performance in sugar reduction studies

ERDEM N., Taş N., KOCADAĞLI T., GÖKMEN V.

Food Chemistry, vol.425, 2023 (SCI-Expanded)

II. Effect of formulation on the dispersion kinetics of baby biscuits in water, milk, and fruit juice ERDEM N., KOCADAĞLI T., Taş N., Çelik S., GÖKMEN V.

European Food Research and Technology, vol.249, no.11, pp.2925-2933, 2023 (SCI-Expanded)

III. Effect of salts on the formation of acrylamide, 5-hydroxymethylfurfural and flavour compounds in a crust-like glucose/wheat flour dough system during heating

Göncüoğlu Taş N., KOCADAĞLI T., Balagiannis D. P., GÖKMEN V., Parker J. K.

Food Chemistry, vol.410, 2023 (SCI-Expanded)

IV. Effectiveness of asparaginase on reducing acrylamide formation in bakery products according to their dough type and properties

Gazi S., Göncüoğlu Taş N., Görgülü A., GÖKMEN V.

Food Chemistry, vol.402, 2023 (SCI-Expanded)

V. Safety concerns of processed foods in terms of neo-formed contaminants and NOVA classification Tas N., KOCADAĞLI T., GÖKMEN V.

CURRENT OPINION IN FOOD SCIENCE, vol.47, 2022 (SCI-Expanded)

VI. Acrylamide in Corn-Based Thermally Processed Foods: A Review br

Zilic S., Nikolic V., ATAÇ MOGOL B., Hamzalioglu A., Tas N., KOCADAĞLI T., Simic M., GÖKMEN V.

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.70, no.14, pp.4165-4181, 2022 (SCI-Expanded)

VII. Investigation of serotonin, free and protein-bound tryptophan in Turkish hazelnut varieties and effect of roasting on serotonin content

TAŞ N., YILMAZ C., GÖKMEN V.

FOOD RESEARCH INTERNATIONAL, vol.120, pp.865-871, 2019 (SCI-Expanded)

VIII. Determination of serotonin in nuts and nut containing products by liquid chromatography tandem mass spectrometry

YILMAZ C., Taş N., KOCADAĞLI T., GÖKMEN V.

Food Chemistry, vol.272, pp.347-353, 2019 (SCI-Expanded)

IX. Effect of Roasting and Storage on the Formation of Maillard Reaction and Sugar Degradation Products in Hazelnuts (Corylus avellana L.)

TAŞ N., GÖKMEN V.

JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.67, no.1, pp.415-424, 2019 (SCI-Expanded)

X. Profiling of the Contents of Amino Acids, Water-Soluble Vitamins, Minerals, Sugars and Organic Acids in Turkish Hazelnut Varieties

TAŞ N., GÖKMEN V.

POLISH JOURNAL OF FOOD AND NUTRITION SCIENCES, vol.68, no.3, pp.223-234, 2018 (SCI-Expanded)

XI. Maillard reaction and caramelization during hazelnut roasting: A multiresponse kinetic study TAŞ N., GÖKMEN V.

FOOD CHEMISTRY, vol.221, pp.1911-1922, 2017 (SCI-Expanded)

XII. Phenolic compounds in natural and roasted nuts and their skins: a brief review TAŞ N., GÖKMEN V.

CURRENT OPINION IN FOOD SCIENCE, vol.14, pp.103-109, 2017 (SCI-Expanded)

XIII. Effect of alkalization on the Maillard reaction products formed in cocoa during roasting Tas N., GÖKMEN V.

FOOD RESEARCH INTERNATIONAL, vol.89, pp.930-936, 2016 (SCI-Expanded)

XIV. Formation of α-dicarbonyl compounds in cookies made from wheat, hull-less barley and colored corn and its relation with phenolic compounds, free amino acids and sugars KOCADAĞLI T., Žilić S., Taş N., Vančetović J., Dodig D., GÖKMEN V.

European Food Research and Technology, vol.242, no.1, pp.51-60, 2016 (SCI-Expanded)

XV. Profiling triacylglycerols, fatty acids and tocopherols in hazelnut varieties grown in Turkey TAŞ N., GÖKMEN V.

JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.44, pp.115-121, 2015 (SCI-Expanded)

 $\label{eq:compounds} \textbf{XVI.} \quad \textbf{Bioactive compounds in different hazelnut varieties and their skins}$

TAŞ N., GÖKMEN V.

JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.43, pp.203-208, 2015 (SCI-Expanded)

XVII. Acrylamide and 5-hydroxymethylfurfural formation during baking of biscuits: NaCl and temperature-time profile effects and kinetics

Van Der Fels-Klerx H., Capuano E., Nguyen H., ATAÇ MOGOL B., KOCADAĞLI T., Göncüoğlu Taş N., Hamzalioğlu A., Van Boekel M., GÖKMEN V.

Food Research International, vol.57, pp.210-217, 2014 (SCI-Expanded)

XVIII. Investigation of heat induced reactions between lipid oxidation products and amino acids in lipid rich model systems and hazelnuts

Karademir Y., Goncuoglu N., GÖKMEN V.

FOOD & FUNCTION, vol.4, no.7, pp.1061-1066, 2013 (SCI-Expanded)

XIX. Accumulation of 5-Hydroxymethylfurfural in Oil During Frying of Model Dough Goncuoglu N., GÖKMEN V.

JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY, vol.90, no.3, pp.413-417, 2013 (SCI-Expanded)

XX. Phytochemicals and health benefits of dried apricots

Goncuoglu N., ATAÇ MOGOL B., GÖKMEN V.

DRIED FRUITS: PHYTOCHEMICALS AND HEALTH EFFECTS, pp.226-242, 2013 (SCI-Expanded)

XXI. Model studies on the role of 5-hydroxymethyl-2-furfural in acrylamide formation from asparagine GÖKMEN V., KOCADAĞLI T., Göncüoğlu N., Mogol B. A.

Food Chemistry, vol.132, no.1, pp.168-174, 2012 (SCI-Expanded)

Books & Book Chapters

I. Chapter 16. Multiresponse kinetic modeling of acrylamide formation in foods Tas N., Gökmen V.

in: Acrylamide in Food, Vural Gökmen, Burçe Ataç Mogol, Editor, Academic Press, London, pp.331-350, 2023

II. Adding Calcium to Foods and Effect on Acrylamide

Taş N., Hamzalıoğlu B. A., Kocadağlı T., Gökmen V.

in: Calcium: Chemistry, Analysis, Function and Effects , Victor R Preedy, Editor, Royal Society of Chemistry , Cambridge, pp.274-290, 2016

III. Formation of Hazardous Compounds during Thermal Processing of Foods

Kocadağlı T., Taş N., Hamzalıoğlu B. A., Gökmen V.

in: Food Chemistry, İlbilge Saldamlı, Editor, Hacettepe Üniversitesi Yayınları, Ankara, pp.479-520, 2014

IV. Phytochemicals and health benefits of dried apricots

TAŞ N., ATAÇ MOGOL B., GÖKMEN V.

in: Dried Fruits Phytochemicals and Health Effects, Cesarettin Alasalvar, Fereidoon Shahidi, Editor, Wiley-Blackwell, Newfoundland, pp.226-239, 2013

Refereed Congress / Symposium Publications in Proceedings

I. Kinetic Modelling of Dispersion of Baby Biscuits in Liquid as a Quality Assessment Tool KOCADAĞLI T., Çelik S., ERDEM N., TAŞ N., GÖKMEN V.

The 36th EFFoST International Conference, Dublin, Ireland, 07 November 2022

II. Modelling of perceived sweetness in biscuits to evaluate reformulation performance in sugar

reduction studies

ERDEM N., TAŞ N., KOCADAĞLI T., GÖKMEN V.

The 36th EFFoST International Conference, Dublin, Ireland, 07 November 2022

III. Mitigation of acrylamide by asparaginase applications in bakery products with different dough types and properties

Gazi S., TAŞ N., GÖRGÜLÜ A., GÖKMEN V.

7th Food Safety Congress, İstanbul, Turkey, 03 November 2022

IV. Health-Promoting Compounds in Turkish Hazelnut Varieties

TAŞ N., YILMAZ C., GÖKMEN V.

14th International Conference and Exhibition on Nutraceuticals and Functional Foods, İstanbul, Turkey, 02 October 2022

V. Understanding changes in aroma generation in model biscuits where inorganic salts have been used to mitigate acrylamide formation

Parker J., TAŞ N., KOCADAĞLI T., Balagiannis D., GÖKMEN V.

ISMR 13-13th International Symposium on the Maillard Reaction, 10 - 13 September 2018

VI. Effect of metal salts on the formation of aroma compounds and acrylamide during heating

TAŞ N., KOCADAĞLI T., Balagiannnis D., GÖKMEN V., Parker J.

Acrylamide - Regulatory and Industry Update, 16 October 2017

VII. THE EFFECT OF BAKING CONDITIONS AND DOUGH FORMULATIONS ON DICARBONYL COMPOUNDS FORMATION AND ANTHOCYANINS STABILITY IN COOKIES MADE FROM BLUE CORN FLOUR

Zilic S., GÖKMEN V., KOCADAĞLI T., Vancetovic J., TAŞ N.

13th Congress of Nutrition, 26 - 28 October 2016

VIII. The effect of baking conditions and dough formulations on alpha dicarbonyl compounds formation and anthocyanins stability in cookies made from blue corn flour

Zilic S., GÖKMEN V., KOCADAĞLI T., Vancetovic J., TAŞ N.

13th Congress of Nutrition, 26 - 28 October 2016

IX. Multiresponse kinetic modelling of Maillard reaction and caramelisation in hazelnuts during roasting TAŞ N., GÖKMEN V.

12th International Symposium on the Maillard Reaction, Japan, 1 - 04 September 2015

X. Effect of Alkalization on Maillard Reaction Products During Cocoa Roasting

TAŞ N., GÖKMEN V.

3rd International Congress on Cocoa Coffee and Tea, Portugal, 22 - 24 June 2015

XI. Effect of Alkalization on Maillard Reaction Process During Cocoa Roasting

TAŞ N., GÖKMEN V.

Third International Congress on Cocoa Coffee and Tea 2015, 22 - 24 June 2015

XII. Bioactive compounds in skins of different hazelnut varieties

TAŞ N., GÖKMEN V.

7th International Conference and Exhibition on Nutraceuticals and Functional Foods, 14 - 17 October 2014

XIII. Lipid Oxidation and Sugar Dehydration Products Creating Helath Risks in Repeatedly Used Frying
Oils

TAŞ N., GÖKMEN V.

Euro Food Chem XVII, 7 - 10 May 2013

XIV. Kinetic modeling of the formation of acrylamide and HMF in biscuits

Van der Fels Klerx H., Nguyen H., ATAÇ MOGOL B., Capuano E., KOCADAĞLI T., TAŞ N., HAMZALIOĞLU B. A. EuroFoodChem XVII, 7 - 10 May 2013

XV. High resolution mass spectrometry analysis of reaction products and intermediates formed in carbonyl-asparagine model system during heating

ATAÇ MOGOL B., TAŞ N., KOCADAĞLI T., GÖKMEN V.

11th International Symposium on the Maillard Reaction "Centenary of the Maillard Reaction Discovery (1912-2012)", 16 - 20 September 2012

XVI. In depth study of acrylamide formation in coffee during roasting

KOCADAĞLI T., TAŞ N., HAMZALIOĞLU B. A., GÖKMEN V.

11th International Symposium on the Maillard Reaction "Centenary of the Maillard Reaction Discovery (1912-2012), 16 - 20 September 2012

XVII. Targeted screening of sugar dehydration products in frying oils by high resolution mass spectrometry

TAŞ N., GÖKMEN V.

6th Central European Congress on Food, 23 - 26 May 2012

XVIII. Regeneration of frying oils by using adsorbent resins

TAŞ N., ATAÇ MOGOL B., GÖKMEN V.

ICEF 2011 International Congress on Engineering and Food, 22 - 26 May 2011

XIX. Removal of hydroxymethylfurfural from frying oil by using adsorbent resin

TAŞ N., ATAÇ MOGOL B., GÖKMEN V.

2. Gıda Güvenliği Kongresi, 9 - 10 December 2010

XX. High resolution mass spectrometry analysis of the Maillard reaction products formed in 2,4-decadienal-amino acid model systems during heating.

TAŞ N., GÖKMEN V.

11th International Symposium on the Maillard Reaction "Centenary of the Maillard Reaction Discovery (1912-2012)", 16 - 20 September 2012

XXI. HMF formation in dried apricots

TAŞ N., ATAÇ MOGOL B., DURMAZ G., GÖKMEN V.

5th Central Eurpean Congress on Food, 19 - 22 May 2010

XXII. Effect of repeated use of frying oils on the formation of harmful compounds

ATAÇ MOGOL B., TAŞ N., KOCADAĞLI T., DURMAZ G., GÖKMEN V.

VII. International Nutrition and Dietetics Congress, 14 - 18 April 2010

Supported Projects

GÖKMEN V., BAŞBOZKURT D. N., PAÇACIOĞLU E., TAŞ N., KOCADAĞLI T., HAMZALIOĞLU B. A., TAVŞANOĞLU Ç., Başbozkurt D. N., Paçacıoğlu E., Baysal M., Project Supported by Higher Education Institutions, Biyoişleme Teknikleri Kullanılarak Akrilamid Riski Azaltılmış Protein Biyoyararlanım ve Aroma Özellikleri Geliştirilmiş Girdilerin ve Gıdaların Üretimi, 2023 - Continues

Taş N., Kocadağlı T., Şensoy İ., Ayhan Z., TÜBİTAK International Bilateral Joint Cooperation Program Project, Sustainable Nutrient-Rich New Generation Food Products Development: evaluating the relationship between ingredients, processing methods used, and techno- and bio-functional properties, 2023 - 2025

ATAÇ MOGOL B., HAMZALIOĞLU B. A., TAŞ N., KOCADAĞLI T., Project Supported by Higher Education Institutions, Farklı Tarım Uygulamalarının Mısır Genotiplerinin Serbest Asparajin Seviyesi Ve Akrilamid Oluşturma Potansiyeli Üzerine Etkileri (220N414 nolu TÜBİTAK Projesi Ek Desteği), 2022 - 2023

GÖKMEN V., TAŞ N., KOCADAĞLI T., Project Supported by Higher Education Institutions, Gelecek Yetişkinler İçin Sağlıklı İşlenmiş Gıda Tasarımı Unlu Mamüller İçin Şeker Azaltma Stratejilerinin Geliştirilmesi 120N061 numaralı TUBİTAK Projesi Ek Bütçe Talebi, 2022 - 2023

Ataç Mogol B., Hamzalıoğlu B. A., Taş N., Kocadağlı T., TÜBİTAK International Bilateral Joint Cooperation Program Project, Farklı Tarım Uygulamalarının Mısır Genotiplerinin Serbest Asparajin Seviyesi Ve Akrilamid Oluşturma Potansiyeli Üzerine Etkileri, 2021 - 2023

Kocadağlı T., Gökmen V., Taş N., TÜBİTAK International Bilateral Joint Cooperation Program Project, Healthy Processed Food Design for Future Adults: Development of Sugar Reduction Strategies for Bakery Products, 2020 - 2022

TAŞ N., Project Supported by Higher Education Institutions, Bisküvilerde Aroma Oluşumu Üzerine Kalsiyum Tuzlarının Etkisi, 2017 - 2018

TAŞ N., Project Supported by Higher Education Institutions, Metal Katyonlarının Isıl İşlem Sırasında Aroma Oluşumu Üzerine Etkisi, 2017 - 2018

GÖKMEN V., TUBITAK Project, FoodresNet Turkish German Food Research Network Joining Competences To Ensure

Food Quality and Safety, 2014 - 2017

TAŞ N., GÖKMEN V., Project Supported by Higher Education Institutions, Model Hamurların Kızartılması Sırasında Yağda 5-Hidroksimetilfurfural Birikimi, 2015 - 2015

TAŞ N., GÖKMEN V., Project Supported by Higher Education Institutions, FINDIKLARDA KAVURMA SIRASINDA GERÇEKLEŞEN MAILLARD REAKSİYONU VE KARAMELİZASYONUN ÇOK DEĞİŞKENLİ KİNETİK MODELLENMESİ, 2015 - 2015

Activities in Scientific Journals

Food and Humanity, Scientific Committee Membership, 2023 - Continues FOOD RESEARCH INTERNATIONAL, Scientific Committee Membership, 2019 - Continues

Metrics

Publication: 47

Citation (WoS): 388 Citation (Scopus): 555 H-Index (WoS): 10 H-Index (Scopus): 11

Scholarships

2211 Tübitak Doktora Bursu, TUBITAK, 2011 - 2017 2210 Yurtiçi Yüksek Lisans Bursu, TUBITAK, 2009 - 2011

Awards

Taş N., Food Group Early Career Award (2023), Royal Society Of Chemistry , November 2023

Taş N., Hacettepe Üniversitesi Bilim Teşvik Ödülü Fen ve Mühendislik Bilimleri (2021), Hacettepe Üniversitesi, December 2021

Taş N., Gökmen V., Best Poster Award, 3Rd International Congress On Cocoa Coffee And Tea, June 2015

Taş N., Gökmen V., National Food Technology Platform-Special Award, National Technology Platform, May 2013

Taş N., Ataç Mogol B., Gökmen V., Second Best Poster Award, 2Nd Food Safety Congress, December 2010

Non Academic Experience

Hacettepe Üniversitesi Gıda Mühendisliği Bölümü