

## Lect. Zeynep Kalaycıođlu

### Personal Information

Email: kalayciogluz@itu.edu.tr

### Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2015 - Continues

Post Graduate, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2013 - 2015

Under Graduate, Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2007 - 2013

### Dissertations

Post Graduate, Örnek sıkıştırma ve kapiler elektroforez yöntemiyle nitrit ve nitrat iyonlarının bir arada tayini: Gıda örneklerine uygulanması, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2015

### Research Areas

Basic Sciences, Chemistry, Analytical Chemistry, Separation Methods, Chromatographic Analysis, Spectroscopical Methods

### Academic Titles / Tasks

Research Assistant, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2015 - Continues

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

- I. **Rosmarinic and carnosic acid contents and correlated antioxidant and antidiabetic activities of 14 Salvia species from Anatolia**  
Adımcılar V., Kalaycıođlu Z., Aydogdu N., Dirmenci T., Kahraman A., Erim F. B.  
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.175, 2019 (Journal Indexed in SCI)
- II. **Nitrate and Nitrites in Foods: Worldwide Regional Distribution in View of Their Risks and Benefits**  
Kalaycıođlu Z., Erim F. B.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.67, pp.7205-7222, 2019 (Journal Indexed in SCI)
- III. **Evaluation of some Turkish Salvia species by principal component analysis based on their vitamin B2, mineral composition, and antioxidant properties**  
Gezek G., Hashemi P., Kalaycıođlu Z., Kaygusuz H., Sarıođlu G., Doker S., Dirmenci T., Erim F. B.  
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.100, pp.287-293, 2019 (Journal Indexed in SCI)
- IV. **Electrochemical oxidation of curcuminoids: an experimental and computational investigation**  
Kalaycıođlu Z., Karadas N., Çınar M. E. , Aysil Ozkan S., Ozer Unal D., Gölcü A., Berker F. B.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, pp.834-853, 2019 (Journal Indexed in SCI)
- V. **alpha-Glucosidase enzyme inhibitory effects and ursolic and oleanolic acid contents of fourteen Anatolian Salvia species**  
Kalaycıođlu Z., Uzaşçı S., Dirmenci T., Erim F. B.

JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.155, pp.284-287, 2018 (Journal Indexed in SCI)

- VI. **Characterization of Turkish honeybee pollens by principal component analysis based on their individual organic acids, sugars, minerals, and antioxidant activities**  
Kalaycıoğlu Z., KAYGUSUZ H., Doker S., KOLAYLI S., Erim F. B.  
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.84, pp.402-408, 2017 (Journal Indexed in SCI)
- VII. **Antimicrobial and physical properties of chitosan films incorporated with turmeric extract**  
Kalaycıoğlu Z., Torlak E., Akin-Evingur G., ÖZEN I., Erim F. B.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.101, pp.882-888, 2017 (Journal Indexed in SCI)
- VIII. **Total phenolic contents, antioxidant activities, and bioactive ingredients of juices from pomegranate cultivars worldwide**  
Kalaycıoğlu Z., Erim F. B.  
FOOD CHEMISTRY, vol.221, pp.496-507, 2017 (Journal Indexed in SCI)
- IX. **Comparison of antioxidant, anticholinesterase, and antidiabetic activities of three curcuminoids isolated from *Curcuma longa* L.**  
Kalaycıoğlu Z., Gazioglu I., Erim F. B.  
NATURAL PRODUCT RESEARCH, vol.31, pp.2914-2917, 2017 (Journal Indexed in SCI)
- X. **SIMULTANEOUS SPECTROPHOTOMETRIC DETERMINATION OF PHENOLIC ANTIOXIDANT (BHA AND BHT) CONCENTRATIONS IN PHARMACEUTICAL PREPARATIONS AND CHEWING GUMS USING THE H-POINT STANDARD ADDITION METHOD**  
ÖZGÜR M., Kalaycıoğlu Z., DÜLGER KUTLU Ö.  
MACEDONIAN JOURNAL OF CHEMISTRY AND CHEMICAL ENGINEERING, vol.36, pp.211-222, 2017 (Journal Indexed in SCI)
- XI. **Simultaneous Determination of Nitrate and Nitrite in Fish Products with Improved Sensitivity by Sample Stacking-Capillary Electrophoresis**  
Kalaycıoğlu Z., Erim F. B.  
FOOD ANALYTICAL METHODS, vol.9, pp.706-711, 2016 (Journal Indexed in SCI)
- XII. **The sensitive capillary electrophoretic-LIF method for simultaneous determination of curcuminoids in turmeric by enhancing fluorescence intensities of molecules upon inclusion into (2-hydroxypropyl)-beta-cyclodextrin**  
Kalaycıoğlu Z., Hashemi P., Günaydn K., Erim F. B.  
ELECTROPHORESIS, vol.36, pp.2516-2521, 2015 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **INCREASING THE WATER SOLUBILITY OF CURCUMIN, BY ALGINATE IN ULTRASOUND MEDIUM**  
Akkaya N. E. , İşçi Turutoğlu S., Ertem A. F. , Kalaycıoğlu Z., Bahadori F., Catalgil Giz H.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.37, pp.85-92, 2019 (Journal Indexed in ESCI)
- II. **CURCUMIN, INCREASING ITS WATER SOLUBILITY BY ULTRASOUND AND PEG**  
çatalgil giz h., İŞÇİ TURUTOĞLU S., bahadori f., KALAYCIOĞLU Z., AKKURT B.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.35, pp.47-58, 2017 (Journal Indexed in ESCI)
- III. **CURCUMIN, INCREASING ITS WATER SOLUBILITY BY ULTRASOUND AND PEG**  
Catalgil Giz H. H. , İSCI S., BAHADORI F., Kalaycıoğlu Z., Akkurt B.  
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.35, pp.47-58, 2017 (Journal Indexed in ESCI)

## Supported Projects

Berker F. B. , Kaygusuz H., Kalaycıođlu Z., Kahya N., TORLAK E., Adımcılar V., Project Supported by Higher Education Institutions, Seryum iyonu ve nano seryum oksit ierikli yeni yara kapatici itosan bazlı hidrojel filmlerin hazırlanması: Antibakteriyel ve fiziksel zelliklerinin incelenmesi, 2017 - 2020

## Invited Congress and Symposium Activities

Green-synthesized and characterization of cerium oxide nanoparticles using turmeric extract, Attendee, Paris, France, 2019

Propolis and its active component, caffeic acid phenethyl ester (CAPE): Correlation between CAPE contents and TNF- $\alpha$  enzyme inhibitory activities, Attendee, İstanbul, Turkey, 2019

Rosmarinic and Carnosic Acid Contents and Correlated Biological Activities of 15 Salvia Species from Anatolian, Attendee, Antalya, Turkey, 2019

## Citations

Total Citations (WOS):195

h-index (WOS):6