

Lect. Zeynep Kalaycıođlu

Personal Information

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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Chemistry, Turkey 2015 - 2020

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

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

Dissertations

Doctorate, Curcuminoids: Analytical Chemistry, Biochemistry, and Potential Applications, Istanbul Technical University, Fen-Edebiyat, Kimya, 2020

Postgraduate, 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

Lecturer PhD, Istanbul Technical University, Fen-Edebiyat, Kimya, 2020 - Continues

Research Assistant, Istanbul Technical University, Fen-Edebiyat, Kimya, 2015 - 2020

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

- I. **Antibacterial nano cerium oxide/chitosan/cellulose acetate composite films as potential wound dressing**
Kalaycıođlu Z., Kahya N., Adımcılar V., Kaygusuz H., Torlak E., Akın-Evingür G., Erim F. B.
EUROPEAN POLYMER JOURNAL, vol.133, 2020 (Journal Indexed in SCI)
- II. **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)
- III. **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, no.26, pp.7205-7222, 2019 (Journal Indexed in SCI)
- IV. **Evaluation of some Turkish Salvia species by principal component analysis based on their vitamin B2, mineral composition, and antioxidant properties**

Gezek G., Hashemi P., Kalaycıoğlu Z., Kaygusuz H., Sarıoğlu G., Doker S., Dirmenci T., Erim F. B.
LWT-FOOD SCIENCE AND TECHNOLOGY, vol.100, pp.287-293, 2019 (Journal Indexed in SCI)

- V. **Electrochemical oxidation of curcuminoids: an experimental and computational investigation**
Kalaycıoğlu Z., Karadas N., Çınar M. E. , Aysil Ozkan S., Ozer Unal D., Gölcü A., Berker F. B.
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.3, pp.834-853, 2019 (Journal Indexed in SCI)
- VI. **alpha-Glucosidase enzyme inhibitory effects and ursolic and oleanolic acid contents of fourteen Anatolian Salvia species**
Kalaycıoğlu Z., Uzaşçı S., Dirmenci T., Erim F. B.
JOURNAL OF PHARMACEUTICAL AND BIOMEDICAL ANALYSIS, vol.155, pp.284-287, 2018 (Journal Indexed in SCI)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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, no.2, pp.211-222, 2017 (Journal Indexed in SCI)
- XII. **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, no.3, pp.706-711, 2016 (Journal Indexed in SCI)
- XIII. **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., Günaydın K., Erim F. B.
ELECTROPHORESIS, vol.36, pp.2516-2521, 2015 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Oleuropein levels of Anatolian olive leaves and correlated antioxidant, antidiabetic, and anti-inflammatory activities**
Kalaycıoğlu Z., Kopar M., Berker F. B.
JOURNAL OF CHEMICAL METROLOGY, vol.14, no.2, pp.133-141, 2020 (Journal Indexed in ESCI)
- II. **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, no.1, pp.85-92, 2019 (Journal Indexed in ESCI)

III. 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)

IV. CURCUMIN, INCREASING ITS WATER SOLUBILITY BY ULTRASOUND AND PEG

Catalgil Giz H. H. , ISCI S., BAHADORI F., Kalaycioglu Z., Akkurt B.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.35, no.1, pp.47-58, 2017 (Journal Indexed in ESCI)

Supported Projects

Berker F. B. , Kaygusuz H., Kalaycioğlu Z., Kahya N., TORLAK E., Adımcılar V., Project Supported by Higher Education Institutions, Seryum iyonu ve nano seryum oksit içerikli yeni yara kapatıcı çitosan bazlı hidrojel filmlerin hazırlanması: Antibakteriyel ve fiziksel özelliklerinin incelenmesi, 2017 - 2020

Edit 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- α 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):320

h-index (WOS):9