

Prof. MUSTAFA SAÇMACI

Personal Information

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International Researcher IDs

ORCID: 0000-0001-8265-8233

Yoksis Researcher ID: 107054

Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1996 - 2003

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 1993 - 1996

Undergraduate, Erciyes University, Fen-Edebiyat Fakültesi, Kimya Pr., Turkey 1989 - 1993

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bazı visinal diketo-furan sistemlerinin hidrazonlar, izosiyanatlar, üretanlar ile reaksiyonlarının deneysel ve semiempirik verileri, Erciyes University, Fen Bilimleri Enstitüsü, Kimya (Dr), 2002

Postgraduate, Semi ve tiyosemikarbazit ile türevlerinin 1,3-diketon yapısındaki bileşiklerle reaksiyonlarının araştırılması, Erciyes University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1996

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2014 - Continues

Assistant Professor, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2003 - 2009

Academic and Administrative Experience

Yozgat Bozok University, 2010 - Continues

Yozgat Bozok University, 2006 - Continues

Courses

SPEKTROSKOPİK YAPI ANALİZİ, Postgraduate, 2013 - 2014, 2012 - 2013
KİMYA-1 (JEOLJİ) İ.Ö., Undergraduate, 2013 - 2014, 2012 - 2013
ORGANİK BOYARMADDELER, Postgraduate, 2013 - 2014
ORGANİK ANALİZ, Undergraduate, 2013 - 2014, 2011 - 2012
BİTİRME TEZİ II, Undergraduate, 2013 - 2014, 2011 - 2012
TEZ ÇALIŞMASI, Postgraduate, 2013 - 2014
BİTİRME TEZİ I İ.Ö., Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
GENEL KİMYA II, Undergraduate, 2013 - 2014, 2012 - 2013
UZMANLIK ALAN DERSİ I, Postgraduate, 2013 - 2014, 2011 - 2012
KİMYA (ELK-ELEKTRİK MÜH.), Undergraduate, 2013 - 2014
ORGANİK KİMYA LAB. I İ.Ö., Undergraduate, 2013 - 2014
KİMYA-2 (JEOLJİ), Undergraduate, 2013 - 2014, 2012 - 2013
HETEROSİKLİK BİLEŞİKLER, Undergraduate, 2013 - 2014, 2012 - 2013
HETEROSİKLİK BİLEŞİKLER, Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
KİMYA-2 (JEOLJİ) İ.Ö., Undergraduate, 2013 - 2014, 2012 - 2013
ORGANİK REAKSİYON MEKANİZM., Undergraduate, 2013 - 2014
TEZ ÇALIŞMASI (Y.L), Postgraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012
ORGANİK KİMYA LAB. I, Undergraduate, 2013 - 2014, 2011 - 2012
ORGANİK KİMYA LAB. II, Undergraduate, 2013 - 2014, 2011 - 2012
GENEL KİMYA I, Undergraduate, 2013 - 2014
ORGANİK REAKSİYON MEKANİZM. İ.Ö., Undergraduate, 2013 - 2014
BİTİRME TEZİ I, Undergraduate, 2013 - 2014, 2012 - 2013
KİMYA-1 (JEOLJİ), Undergraduate, 2013 - 2014, 2012 - 2013
UZMANLIK ALAN DERSİ II, Postgraduate, 2013 - 2014, 2012 - 2013
GENEL KİMYA LAB. II, Undergraduate, 2013 - 2014
GENEL KİMYA LAB. I, Undergraduate, 2013 - 2014, 2012 - 2013
SEMİNER, Undergraduate, 2012 - 2013
GENEL KİMYA II (FİZİK) İ.Ö., Undergraduate, 2012 - 2013, 2011 - 2012
GENEL KİMYA II İ.Ö., Undergraduate, 2012 - 2013
UZMANLIK ALAN DERSİ, Postgraduate, 2012 - 2013
SEMİNER (Y.L), Postgraduate, 2012 - 2013, 2011 - 2012
HETEROSİKLİK BİLEŞİKLER İ.Ö., Undergraduate, 2012 - 2013, 2011 - 2012
GENEL KİMYA I (FİZİK), Undergraduate, 2012 - 2013, 2011 - 2012
BİYOKİMYA (KİMYA) İ.Ö., Undergraduate, 2012 - 2013
BİYOKİMYA (KİMYA), Undergraduate, 2012 - 2013
BİYOKİMYA LAB. İ.Ö., Undergraduate, 2012 - 2013
GENEL KİMYA II (FİZİK), Undergraduate, 2012 - 2013, 2011 - 2012
ORGANİK KİMYA I, Undergraduate, 2011 - 2012
ORGANİK KİMYA I İ.Ö., Undergraduate, 2011 - 2012
ORGANİK KİMYA II İ.Ö., Undergraduate, 2011 - 2012
ORGANİK KİMYA II, Undergraduate, 2011 - 2012
GENEL KİMYA I (FİZİK) İ.Ö., Undergraduate, 2011 - 2012
ORGANİK ANALİZ TEK. (Y.L), Postgraduate, 2011 - 2012
UZMANLIK ALAN DERSİ İ.Ö., Postgraduate, 2011 - 2012

Advising Theses

SAÇMACI M., Floresans ışık yayan rodamin türevi schiff bazı bileşiklerinin sentez ve karakterizasyonu, Postgraduate, M.ESRA(Student), 2020

SAÇMACI M., Oksazol türevi yeni bileşiklerin sentezi ve çeşitli nükleofillerle reaksiyonları, Doctorate, İ.EVREN(Student), 2018

SAÇMACI M., Bazı rodamin türevi boyar maddelerin sentez ve karakterizasyonu, Postgraduate, A.ATMACA(Student), 2017

SAÇMACI M., Pirazol karboksi amit bileşiklerinin sentez ve karakterizasyonu, Postgraduate, Ç.ARSLANER(Student), 2016

SAÇMACI M., Rodamin türevi boyar maddelerin sentezi, gıda ve çevre örneklerindeki bazı ağır metallerin florimetrik yöntemle tayini, Postgraduate, E.ÖZYOL(Student), 2016

SAÇMACI M., Furan türevi rodamin boyar maddelerin sentezi, çevre ve gıda örneklerindeki bazı ağır metallerin florimetrik yöntem ile tayini, Postgraduate, N.ÖKSÜZ(Student), 2016

SAÇMACI M., Yeni furanon bileşiklerinin aminler ile reaksiyonları, Postgraduate, N.AKYOL(Student), 2015

SAÇMACI M., Yeni pirrol-3-on türevlerinin sentezi, Postgraduate, C.YILMAZ(Student), 2012

SAÇMACI M., Bazı furan türevi bileşiklerin heterohalkalı diaminlerle reaksiyonları, Postgraduate, H.BÖLÜKBAŞI(Student), 2011

SAÇMACI M., Alkil 2-(4-metoksibenzoil)-3-(4-metoksifenil)-3-oksopropanoilkarbamat bileşiklerinin amino grubu içeren nükleofillerle reaksiyonları, Postgraduate, A.ALKAN(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Novel functionalized magnetic graphene oxide nanocomposite material for efficient vanadium(V) capturing from tea samples**
DEMİREL-ÖZSOY S., SAÇMACI Ş., SAÇMACI M.
JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.19, no.10, pp.4187-4196, 2022 (SCI-Expanded)
- II. **The rapid determination of lead in food samples by magnetic dispersive solid-phase extraction coupled zeta potential analyzer**
SAÇMACI Ş., SAÇMACI M.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.102, no.16, pp.4451-4465, 2022 (SCI-Expanded)
- III. **Monomeric or dimeric? A theoretical and vibrational spectroscopic approach to the structural stability of 5-(4-methoxy benzoyl)-6-(4-methoxyphenyl)-3-methyl-2-thioxo-2,3-dihydropyrimidine-4(1H)-on**
Arı H., Ozpazan T., Kabacali Y., Saçmacı M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1222, 2020 (SCI-Expanded)
- IV. **Application of a new functionalized magnetic graphene oxide for aluminum determination at trace levels in honey samples by the zetasizer system**
SAÇMACI Ş., SAÇMACI M.
MICROCHEMICAL JOURNAL, vol.157, 2020 (SCI-Expanded)
- V. **A new fluorescence reagent: Synthesis, characterization and application for speciation of arsenic (III)/(VI) species in tea samples**
Oksuz N., SAÇMACI Ş., SAÇMACI M., ÜLGEN A.
FOOD CHEMISTRY, vol.270, pp.579-584, 2019 (SCI-Expanded)
- VI. **Xanthine oxidase inhibitory activity of new pyrrole carboxamide derivatives: In vitro and in silico studies**
Kıbrız İ. E., Saçmacı M., Yıldırım İ., Noma S. A. A., Taşkın Tok T., Ateş B.
ARCHIV DER PHARMAZIE, vol.351, no.10, 2018 (SCI-Expanded)
- VII. **Highly selective adsorption of cadmium ions by water-dispersible magnetic thioglycolic acid/graphene oxide composites**
SAÇMACI Ş., SAÇMACI M.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.32, no.9, 2018 (SCI-Expanded)
- VIII. **Grafting of glutathione to magnetic graphene oxide and application for the determination of As(III)/(V) in food samples via a zeta potential analyzer**

SAÇMACI Ş., SAÇMACI M., KOK C.

NEW JOURNAL OF CHEMISTRY, vol.42, no.7, pp.5345-5355, 2018 (SCI-Expanded)

- IX. **A new turn-on fluorimetric method for the rapid speciation of Cr(III)/Cr(VI) species in tea samples with rhodamine-based fluorescent reagent**
Ozyol E., SAÇMACI Ş., SAÇMACI M., ÜLGEN A.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.191, pp.62-68, 2018 (SCI-Expanded)
- X. **Synthesis, characterization and application of a new fluorescence reagent for the determination of aluminum in food samples**
Yildiz E., SAÇMACI Ş., SAÇMACI M., ÜLGEN A.
FOOD CHEMISTRY, vol.237, pp.942-947, 2017 (SCI-Expanded)
- XI. **A New Turn-On Fluorometric Detection Method for the Determination of Ag(I) in Some Food and Water Samples**
SAÇMACI Ş., SAÇMACI M., ÜLGEN A.
JOURNAL OF AOAC INTERNATIONAL, vol.100, no.6, pp.1854-1860, 2017 (SCI-Expanded)
- XII. **A new procedure for determination of nickel in some fake jewelry and cosmetics samples after dispersive liquid-liquid microextraction by FAAS**
SAÇMACI Ş., SAÇMACI M.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.31, no.11, 2017 (SCI-Expanded)
- XIII. **Preparation of novel pyrrol-2-one derivatives via an effective synthesis of new oxazole scaffold**
Kıbrız İ. E., Saçmacı M., Şahin E., Yıldırım İ.
TETRAHEDRON, vol.73, no.14, pp.1795-1802, 2017 (SCI-Expanded)
- XIV. **Synthesis and characterization of new thiadiazole derivatives bearing a pyrazole moiety**
SAÇMACI M., Arslaner C., ŞAHİN E.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.192, no.10, pp.1134-1139, 2017 (SCI-Expanded)
- XV. **Theoretical and vibrational spectroscopic approach to keto-enol tautomerism in methyl-2-(4-methoxybenzoyl)-3-(4-methoxyphenyl)-3-oxopropanoylcarbamate**
Arı H., Ozpazan T., Büyükmumcu Z., Kabacalı Y., Saçmacı M.
JOURNAL OF MOLECULAR STRUCTURE, vol.1122, pp.48-61, 2016 (SCI-Expanded)
- XVI. **A New Chelating Reagent: Its Synthesis/Characterization and Application for the Determination of Cd(II) and Ni(II) in Various Food and Make-Up Product Samples by FAAS Using Simultaneous Microextraction Sampling**
SAÇMACI Ş., SAÇMACI M.
JOURNAL OF AOAC INTERNATIONAL, vol.99, no.4, pp.1058-1065, 2016 (SCI-Expanded)
- XVII. **A new chelating reagent and application for coprecipitation of some metals in food samples by FAAS**
Yildiz E., SAÇMACI Ş., KARTAL Ş., SAÇMACI M.
FOOD CHEMISTRY, vol.194, pp.143-148, 2016 (SCI-Expanded)
- XVIII. **Development of a new on-line system for the sequential speciation and determination of chromium species in various samples using a combination of chelating and ion exchange resins**
ŞAHAN S., SAÇMACI Ş., KARTAL Ş., SAÇMACI M., ŞAHİN U., ÜLGEN A.
TALANTA, vol.120, pp.391-397, 2014 (SCI-Expanded)
- XIX. **Synthesis and Structural Characterization of Pyrrole Heterocyclic Systems Bearing Amino Acid Units: Novel Pyrrol-3-ones, Pyrrolo[1,2-a][3,1]benzoxazines, and Pyrrolo[2,1-b][1,3]oxazoles**
KOCA İ., SAÇMACI M., YILMAZ F., ÜNGÖREN Ş. H.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.51, no.1, pp.212-218, 2014 (SCI-Expanded)
- XX. **On-line determination of palladium by flame atomic absorption spectrometry coupled with a separation/preconcentration minicolumn containing a new sorbent**
SAÇMACI Ş., ŞAHAN S., SAÇMACI M., ŞAHİN U., ÜLGEN A., KARTAL Ş.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.93, no.12, pp.1223-1235, 2013 (SCI-Expanded)

- XXI. **Synthesis, characterization and vibrational spectra analysis of ethyl (2Z)-2-(2-amino-4-oxo-1,3-oxazol-5(4H)-ylidene)-3-oxo-3-phenylpropanoate**
Kibriz İ. E., Sert Y., Saçmacı M., Şahin E., Yıldırım İ., Uçun F.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.114, pp.491-501, 2013 (SCI-Expanded)
- XXII. **Novel acid mono azo dye compound: Synthesis, characterization, vibrational, optical and theoretical investigations of 2-[(E)-(8-hydroxyquinolin-5-yl)-diazenyl]-4,5-dimethoxybenzoic acid**
Saçmacı M., Kanbur Çavuş H., Arı H., Şahingöz R., Ozpozan T.
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.97, pp.88-99, 2012 (SCI-Expanded)
- XXIII. **A new chelating resin: Synthesis, characterization and application for speciation of chromium (III)/(VI) species**
SAÇMACI Ş., KARTAL Ş., Yılmaz Y., SAÇMACI M., Soykan C.
CHEMICAL ENGINEERING JOURNAL, vol.181, pp.746-753, 2012 (SCI-Expanded)
- XXIV. **DETERMINATION OF Cr(III), Fe(III), Ni(II), Pb(II) AND Zn(II) IONS BY FAAS IN ENVIRONMENTAL SAMPLES AFTER SEPARATION AND PRECONCENTRATION BY SOLVENT EXTRACTION USING A TRIKETONE REAGENT**
SAÇMACI Ş., KARTAL Ş., SAÇMACI M.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.21, pp.1563-1570, 2012 (SCI-Expanded)
- XXV. **Selective back-extraction and preconcentration of zinc(II) from metal-1,3,5-triketone extracts prior to its determination by flame atomic absorption spectrometry**
SAÇMACI Ş., KARTAL Ş., SAÇMACI M.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.92, no.14, pp.1626-1637, 2012 (SCI-Expanded)
- XXVI. **Reactions of Some Furan-3-ones with 2,3-Diaminopyridine and its Derivatives**
SAÇMACI M., Bolukbasi H., ŞAHİN E.
BULLETIN OF THE KOREAN CHEMICAL SOCIETY, vol.33, no.1, pp.90-94, 2012 (SCI-Expanded)
- XXVII. **Selective Separation and Preconcentration of Fe(III) and Zn(II) Ions by Solvent Extraction Using a New Triketone Reagent**
SAÇMACI Ş., KARTAL Ş., SAÇMACI M.
CLEAN-SOIL AIR WATER, vol.39, no.6, pp.584-590, 2011 (SCI-Expanded)
- XXVIII. **Novel Solid Phase Extraction Procedure for Some Trace Elements in Various Samples Prior to Their Determinations by FAAS**
SAÇMACI Ş., Kartal S., SAÇMACI M., Soykan C.
BULLETIN OF THE KOREAN CHEMICAL SOCIETY, vol.32, no.2, pp.444-450, 2011 (SCI-Expanded)
- XXIX. **Synthesis and Characterization of New Chelating Resin: Adsorption Study of Copper(II) and Chromium (III) Ions**
SAÇMACI Ş., SAÇMACI M., Soykan C., KARTAL Ş.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.47, no.6, pp.552-557, 2010 (SCI-Expanded)
- XXX. **New Heterocyclic Phosphorus Ylides: Synthesis, Crystal Structure, and Theoretical Calculation of Alkyl Substituted 3-(4-Benzoyl-1,5-diphenyl-2,3-dihydro-1H-pyrazol-3-yl)-3-oxo-2-(triphenylphosphoranylidene) Propanoates**
ÜNGÖREN Ş. H., SAÇMACI M., Arici C., ŞAHİN E., Arslan T., Kandemirli F.
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.184, no.11, pp.2877-2890, 2009 (SCI-Expanded)
- XXXI. **New beta-tricarbonyl compounds: Synthesis, reactions with urea and some thioureas**
SAÇMACI M., Alkan A., SAÇMACI Ş., SARIPINAR E., ŞAHİN E.
HETEROCYCLES, vol.75, no.8, pp.2013-2021, 2008 (SCI-Expanded)
- XXXII. **Reactions of beta-tricarbonyl compound with some aromatic hydrazines and amino acids-esters**
SAÇMACI M., Alkan A.

Refereed Congress / Symposium Publications in Proceedings

- I. **Conformational Stability, Theoretical and Vibrational Spectroscopic Investigation of 2-[(E)-(8-Hydroxyquinolin-5-Yl)-Diazenyl]-4,5-Dimethoxybenzoic acid**
ARI H., ÖZPOZAN T., SAÇMACI M.
2nd International Conference on Computation for Science and Technology (ICCST-2), 9 - 11 July 2012
- II. **N-benziliden-N-fenil-p,p,-dimetoksidibenzoil-aset asit hidrazit Bileşiğinin Titreşim Spektroskopik ve Kuramsal İncelenmesi**
ÖZPOZAN T., ÖZEN T., ARI H., SAÇMACI M.
XXV. Ulusal Kimya Kongresi, Atatürk Üniversitesi, Turkey, 27 June - 02 July 2011

Supported Projects

- SAÇMACI M., Project Supported by Higher Education Institutions, Floresans Işık Yayan Rodamin Türevi Schiff Bazı Bileşiklerinin Sentez ve Karakterizasyonu, 2019 - 2020
- SAÇMACI M., Project Supported by Higher Education Institutions, Pirrol-1-Karboksamit Türevlerinin Sentezinde Amino Oksazol Bileşiğinin Kullanılması, 2017 - 2018
- SAÇMACI M., Project Supported by Higher Education Institutions, Çevre ve Gıda Örneklerindeki Bazı Ağır Metallerin İşlevselleştirilmiş Manyetik Grafen Kullanılarak Zeta Potansiyel Tekniği İle Tayini, 2016 - 2018
- SAÇMACI M., Project Supported by Higher Education Institutions, Pirazol Karboksi Amid Bileşiklerinin Sentez ve Karakterizasyonu, 2015 - 2016
- SAÇMACI M., Project Supported by Higher Education Institutions, Rodamin Türevi Boyar Maddelerin Sentezi, Gıda ve Çevre Örneklerindeki Bazı Ağır Metallerin Florimetrik Yöntemle Tayini, 2015 - 2016
- SAÇMACI M., Project Supported by Higher Education Institutions, Furan Türevi Rodamin Boyar Maddelerin Sentezi, Çevre ve Gıda Örneklerindeki Bazı Ağır Metallerin Florimetrik Yöntemle Tayini, 2015 - 2016
- SAÇMACI M., Project Supported by Higher Education Institutions, Yeni Furanon Bileşiklerinin Aminler İle Reaksiyonlar, 2014 - 2015
- SAÇMACI M., Project Supported by Higher Education Institutions, Pirazol ve Pirimidin Halkası İhtiva Eden Bileşiklerin Sentezi ve Karakterizasyonu, 2014 - 2015
- SAÇMACI M., Project Supported by Higher Education Institutions, Yeni Pirrol-3-On Türevlerinin Sentezi (Cemal Yılmaz *24/06/11), 2011 - 2013
- SAÇMACI M., Project Supported by Higher Education Institutions, Furan-3-Ontürevi Bileşiklerinin Heterohalkalı Daiminler İle Reaksiyonları (Hilal Bölükbaşı*10/12/2010), 2010 - 2012

Metrics

- Publication: 37
Citation (WoS): 353
Citation (Scopus): 380
H-Index (WoS): 11
H-Index (Scopus): 11