

## Assoc. Prof. TLAY OYMAK

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-5820-1364

Publons / Web Of Science ResearcherID: AAG-5650-2019

ScopusID: 6505556657

Yoksis Researcher ID: 189071

### Education Information

Post Doctorate, Jackson State University, United States Of America 2013 - 2014

Doctorate, Gazi University, Saęlık Bilimleri Enstits, Analitik Kimya (Dr), Turkey 2004 - 2011

Postgraduate, Erciyes University, Fen Bilimleri Enstits, Kimya (YI) (Tezli), Turkey 1999 - 2003

Undergraduate, Inonu University, Eęitim Fakltesi, Matematik Ve Fen Bilimleri Eęitimi, Turkey 1994 - 1998

### Certificates, Courses and Trainings

Other, HPLC and UHPLC reversed-phase methoddevelopment - Selecting a reproducible starting point , SelectsScience Ltd. Company, 2020

Vocational Training, Eęitiminin Eęitimi, Cumhuriyet niversitesi , 2020

### Dissertations

Doctorate, Yarı iletken nanoparçacık sentezinde yöntem geliştirme ve analitik uygulamaları, Gazi niversitesi, Saęlık Bilimleri Enstits, Analitik Kimya (Dr), 2011

### Research Areas

Health Sciences, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Sivas Cumhuriyet University, Eczacılık Fakltesi, Temel Eczacılık Bilimleri Blm, 2019 - Continues

Assistant Professor, Sivas Cumhuriyet University, Eczacılık Fakltesi, Temel Eczacılık Bilimleri Blm, 2012 - 2019

### Courses

GENEL KIMYA II , Undergraduate, 2021 - 2022

Spektroskopik Analiz Yontemleri I, Postgraduate, 2021 - 2022

Analitik Kimya Laboratuvarı , Undergraduate, 2022 - 2023  
Uzmanlık Alan Dersi, Postgraduate, 2021 - 2022  
İlaç Analizlerinde Ayırma Teknikleri, Undergraduate, 2021 - 2022  
Araştırma Projesi Dersi II, Undergraduate, 2021 - 2022  
Analitik Kimyanın Temelleri , Postgraduate, 2021 - 2022  
Arastırma Projesi Dersi , Undergraduate, 2021 - 2022  
Nanoparçacıklar ve Eczacılık Alanında Uygulamaları , Undergraduate, 2021 - 2022  
GENEL KİMYA I, Undergraduate, 2021 - 2022  
Analitik Kimyanın Temelleri , Postgraduate, 2020 - 2021  
Spektroskopik Analiz Yöntemleri I, Postgraduate, 2020 - 2021  
Genel Kimya - I, Undergraduate, 2019 - 2020  
İlaç Analizlerinde Ayırma Teknikleri, Undergraduate, 2018 - 2019  
Spektroskopik Analiz Yöntemleri, Undergraduate, 2019 - 2020  
Ayırma ve Zenginleştirme Teknikleri, Postgraduate, 2019 - 2020  
Genel Kimya - II, Undergraduate, 2018 - 2019  
Analitik Kimya Laboratuvarı - I, Undergraduate, 2019 - 2020  
Seminer, Postgraduate, 2018 - 2019  
Spektroskopik Analiz Yöntemleri - I, Postgraduate, 2019 - 2020  
Uzmanlık Alan Dersi, Postgraduate, 2019 - 2020  
Araştırma Projesi Uygulama Dersi - II, Undergraduate, 2018 - 2019  
Araştırma Projesi Dersi - I, Undergraduate, 2019 - 2020  
ANALİTİK KİMYA II, Undergraduate, 2017 - 2018  
SPEKTROSKOPİK ANALİZ YÖNTEMLERİ, Undergraduate, 2017 - 2018, 2016 - 2017  
Seminer, Postgraduate, 2017 - 2018, 2016 - 2017  
SPEKTROSKOPİK ANALİZ YÖNTEMLERİ I, Postgraduate, 2017 - 2018, 2016 - 2017  
Analitik Kimya - II, Undergraduate, 2017 - 2018  
SPEKTROSKOPİK ANALİZ YÖNTEMLERİ II, Postgraduate, 2017 - 2018  
Analitik Kimya I, Undergraduate, 2017 - 2018  
Araştırma Projesi Uygulama Dersi II, Undergraduate, 2017 - 2018  
Nanopartiküller ve Analitik Uygulamaları, Postgraduate, 2018 - 2019  
ANALİTİK KİMYA LABORATUVARI II, Undergraduate, 2016 - 2017  
Analitik Kimya - I, Undergraduate, 2017 - 2018  
Analitik Kimya Laboratuvarı I, Undergraduate, 2016 - 2017  
Spektroskopik Analiz Yöntemleri - II, Postgraduate, 2017 - 2018  
Kromatografik Analiz Yöntemleri, Undergraduate, 2016 - 2017  
AYIRMA VE ZENGİNLEŞTİRME YÖNTEMLERİ, Postgraduate, 2016 - 2017  
Sıvı Kromatografisi, Postgraduate, 2016 - 2017  
Kromatografik Analiz Yöntemleri, Undergraduate, 2016 - 2017  
Sıvı Kromatografisi ve Uygulamaları, Postgraduate, 2016 - 2017  
İngilizce - II, Associate Degree, 2012 - 2013  
İngilizce - II, Associate Degree, 2012 - 2013

## **Jury Memberships**

Post Graduate, Post Graduate, Erciyes Üniversitesi, January, 2020  
Post Graduate, Post Graduate, Sivas Cumhuriyet Üniversitesi, January, 2020  
Post Graduate, Post Graduate, Yozgat Bozok Üniversitesi, July, 2019  
Post Graduate, Post Graduate, Sivas Cumhuriyet Üniversitesi, June, 2019  
Post Graduate, Post Graduate, Erciyes Üniversitesi, March, 2016

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

- I. **Determination of seven synthetic colourants in pharmaceuticals, foods, and beverages by a validated HPLC-PDA method: A risk assessment study**  
Tamer F. S., OYMAK T., DURAL E.  
Journal of Food Composition and Analysis, vol.136, 2024 (SCI-Expanded)
- II. **Development of a new magnetic solid-phase extraction method prior to HPLC determination of naproxen in pharmaceutical products and water samples**  
Karataş A., OYMAK T., Çelik A.  
Journal of Pharmaceutical and Biomedical Analysis, vol.249, 2024 (SCI-Expanded)
- III. **The relationship between lymphocyte DNA damage, coronary artery disease, and blood trace elements**  
Erdoğu İ., DURAL E., Altundağ H., OYMAK T., SÜZEN H. S.  
Mutagenesis, vol.39, no.1, pp.43-55, 2024 (SCI-Expanded)
- IV. **Adsorption and removal ability of magnetic pineapple peel biochar-Based for amoxicillin**  
Haskan B. Y., OYMAK T.  
Journal of Dispersion Science and Technology, vol.45, no.14, pp.2497-2507, 2024 (SCI-Expanded)
- V. **Development of quantum dot-phthalocyanine integrated G-quadruplex /double-stranded DNA biosensor**  
Topcu A., BAĞDA E., OYMAK T., Durmuş M.  
Analytical Biochemistry, vol.654, 2022 (SCI-Expanded)
- VI. **The synthesis and characterization of iron nanoparticles with lemon peel and its use in magnetic solid phase extraction for trace levels of lead (II)**  
Cakmak E., OYMAK T.  
ANALYTICAL SCIENCES, vol.38, no.4, pp.703-709, 2022 (SCI-Expanded)
- VII. **Removal of sulfadiazine from aqueous solution by magnetic biochar prepared with pomegranate peel**  
OYMAK T., Safak E. S.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.57, no.16, pp.2521-2531, 2022 (SCI-Expanded)
- VIII. **Determination of sunset yellow, allura red, and fast green using a novel magnetic nanoadsorbent modified with Elaeagnus angustifolia based on magnetic solid-phase extraction by HPLC**  
OYMAK T., DURAL E.  
Brazilian Journal of Pharmaceutical Sciences, vol.58, 2022 (SCI-Expanded)
- IX. **Determination of Sulfadiazine in Natural Waters by Pine Needle Biochar - Derivatized Magnetic Nanocomposite Based Solid-Phase Extraction (SPE) with High-Performance Liquid Chromatography (HPLC)**  
Avci R. N., OYMAK T., BAĞDA E.  
ANALYTICAL LETTERS, vol.55, no.16, pp.2495-2506, 2022 (SCI-Expanded)
- X. **Characterization of persimmon fruit peel and its biochar for removal of methylene blue from aqueous solutions: thermodynamic, kinetic and isotherm studies**  
Ateş A., Oymak T.  
INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, vol.22, no.6, pp.607-616, 2020 (SCI-Expanded)
- XI. **Determination of color additive tartrazine (E 102) in food samples after dispersive solid phase extraction with a zirconium-based metal-organic framework (UiO-66(Zr)-(COOH)(2))**  
OYMAK T., TOKALIOĞLU Ş., Cam S., Demir S.  
FOOD ADDITIVES AND CONTAMINANTS PART A-CHEMISTRY ANALYSIS CONTROL EXPOSURE & RISK ASSESSMENT, vol.37, no.5, pp.731-741, 2020 (SCI-Expanded)
- XII. **Solid-Phase Extraction Method by Magnetic Nanoparticles Functionalized with Murexide for Trace U(VI) from Sea Water Prior to Spectrophotometric Determination**  
Oymak T.  
ACTA CHIMICA SLOVENICA, vol.66, pp.78-84, 2019 (SCI-Expanded)

- XIII. **Effective and rapid removal of cationic and anionic dyes from aqueous solutions using *Elaeagnus angustifolia* L. fruits as a biosorbent**  
OYMAK T., ERUYGUR N.  
DESALINATION AND WATER TREATMENT, vol.138, pp.257-264, 2019 (SCI-Expanded)
- XIV. **Crosslinked Egg White as Eco-Friendly, Reusable, and Cost-Effective Biosorbent for Rapid Removal of Indigo Carmine**  
OYMAK T., BAĞDA E.  
CLEAN-SOIL AIR WATER, vol.46, no.6, 2018 (SCI-Expanded)
- XV. **Triethylamine-assisted Mg(OH)(2) coprecipitation/preconcentration for determination of trace metals and rare earth elements in seawater by inductively coupled plasma mass spectrometry (ICP-MS)**  
Arslan Z., Oymak T., White J.  
ANALYTICA CHIMICA ACTA, vol.1008, pp.18-28, 2018 (SCI-Expanded)
- XVI. **Spectrophotometric determination of selenium(IV) with 4-methyl-o-phenylenediamine based on piaszelenol formation**  
KARTAL Ş., Oymak T., TOKALIOĞLU Ş.  
JOURNAL OF ANALYTICAL CHEMISTRY, vol.65, no.12, pp.1221-1227, 2010 (SCI-Expanded)
- XVII. **Determination of lead and cadmium in food samples by the coprecipitation method**  
Oymak T., TOKALIOĞLU Ş., YILMAZ V., KARTAL Ş., AYDIN D.  
FOOD CHEMISTRY, vol.113, no.4, pp.1314-1317, 2009 (SCI-Expanded)
- XVIII. **Voltammetric determination of mercury(II) at poly(3-hexylthiophene) film electrode. Effect of halide ions**  
Tamer U., Oymak T., Ertas N.  
ELECTROANALYSIS, vol.19, no.24, pp.2565-2570, 2007 (SCI-Expanded)
- XIX. **Coprecipitation of lead and cadmium using copper(II) mercaptobenzothiazole prior to flame atomic absorption spectrometric determination**  
Tokalioglu S., Oymak T., Kartal S.  
MICROCHIMICA ACTA, vol.159, pp.133-139, 2007 (SCI-Expanded)
- XX. **Determination of palladium in various samples by atomic absorption spectrometry after preconcentration with dimethylglyoxime on silica gel**  
Tokalioglu S., Oymak T., Kartal S.  
ANALYTICA CHIMICA ACTA, vol.511, no.2, pp.255-260, 2004 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Development and Validation of a New High Performance Liquid Chromatography Method for the Determination of Sulfonamides in Milk**  
OYMAK T.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, no.4, pp.1615-1625, 2024 (Peer-Reviewed Journal)
- II. **Dispersif Sıvı Sıvı Mikro Ekstraksiyon Yöntemi ile İçme Sularında Alüminyumun Spektrofotometrik Tayini**  
Oymak T.  
International Journal of Academic Medicine and Pharmacy (JAMP), no.1, pp.14-17, 2019 (Peer-Reviewed Journal)
- III. **Determination of synthetic colorants in cosmetic products by reversed-phase high-performance liquid chromatography coupled with diode-array detector**  
Filiz Z., Oymak T., Dural E.  
Journal of Research in Pharmacy, vol.23, no.6, pp.1048-1059, 2019 (Scopus)
- IV. **Removal of a toxic basic dye-malachite green from aqueous solution by *Onopordum turcicum* Danin as natural biosorbent**  
ERUYGUR N., OYMAK T.

Biological Diversity and Conservation, vol.11, no.1, pp.22-28, 2018 (Peer-Reviewed Journal)

- V. **Determination of Food Colorings in Pharmaceutical Preparations and Food Additives by a Validated HPLC Method**  
Oymak T., Dural E.  
International Journal of Scientific & Engineering Research, vol.9, no.8, pp.72-77, 2018 (Peer-Reviewed Journal)
- VI. **Use of Water Soluble and Phosphorescent MPA-capped CdTe Quantum Dots for the Detection of Urea**  
OYMAK T., ERTAŞ N., TAMER U.  
TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.15, no.1, pp.44-49, 2018 (ESCI)
- VII. **Some Heavy Metal Contents of Various Slaughtered Cattle Tissues in Sivas-Turkey**  
Oymak T., Ulusoy H. İ., Hastaoğlu E., Yılmaz V., Yıldırım Ş.  
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.4, pp.721-728, 2017 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Use of Novel Biochar -Derivatized Magnetic Nanocomposite as Magnetic Solid-Phase Extraction Adsorbent for Preconcentration and Determination of SDZ by High-Performance Liquid Chromatography**  
Avcı R. N., OYMAK T.  
ISOPS-13, Ankara, Turkey, 22 - 25 June 2021
- II. **Use of tea waste based adsorbents for the removal of cationic dye from aqueous solutions**  
ATEŞ A., OYMAK T., MERT Y.  
4th International Energy Engineering Congress, Gaziantep, Turkey, 24 - 25 October 2019, vol.2, pp.377-382
- III. **CdTe QD-Ftalosiyanın Entegre Biyosensör Geliştirme ve Analitik Uygulamaları**  
YILDIRIM A., BAĞDA E., OYMAK T., BAĞDA E., ŞAHİN G., KARAKODAK N., DURMUŞ M.  
23.Biyomedika Bilim İ ve Teknoloji Sempozyumu (BİOMED 2018-TR), Turkey, 15 - 16 December 2018
- IV. **Kuantum Nokta ile Entegre Ga ve In Merkez Atomlu Ftalosiyanın Moleküllerinin DNA Biyosensör Özellikleri**  
YILDIRIM A., BAĞDA E., OYMAK T., BAĞDA E., ŞAHİN G., KARAKODAK N., DURMUŞ M.  
23.Biyomedika Bilim İ ve Teknoloji Sempozyumu (BİOMED 2018-TR), Turkey, 15 - 16 December 2018
- V. **Determination of Tartrazine and Sunset Yellow in Pharmaceutical Preparations and Food Supplies by HPLC-DAD**  
esen b., OYMAK T., DURAL E.  
3rd International Conference on Engineering Technology and Applied Sciences Congress, 17 - 21 July 2018
- VI. **Removal of Methylene Blue From Aqueous Solution by Persimmon Fruit Shell As Natural Biosorbent**  
Kargı E. C., Keçe T., Işık Ç., OYMAK T., ATEŞ A.  
3rd International Conference on Engineering Technology and Applied Sciences Congress, 17 - 21 July 2018
- VII. **ICP-MS Determination of Trace Element Concentrations in Tap Water Samples Collected from Kayseri, Turkey**  
TOKALIOĞLU Ş., OYMAK T.  
ITAC 2018 international trace analysis congress, 20 - 23 June 2018
- VIII. **Pre-concentration of Tartrazine by Zirconium Metal-Organic Framework Adsorbent Prior to Spectrophotometric Determination**  
OYMAK T., TOKALIOĞLU Ş., CAM Ş., DEMİR S.  
8th Black Sea Basin Conference on Analytical Chemistry, 9 - 11 May 2018
- IX. **Modification and characterization of tea waste for removal of heavy metals from solutions**  
Demir Y., OYMAK T., ATEŞ A.  
3. International Conference on Civil and Environmental Engineering (ICOCEE)", 24 - 27 April 2018
- X. **Quantitative determination of sunset yellow, allura red, fast green, erythrosin and quinoline yellow using Fe<sub>3</sub>O<sub>4</sub> modified with Elaeagnus angustifolia based on solid phase extraction and HPLC**

OYMAK T., DURAL E.

7thINTERNATIONALCONGRESSon MOLECULARBIOLOGY andBIOTECHNOLOGY, 25 - 27 April 2018

- XI. **Quantitative determination of synthetic dyes in cosmetic products by HPLC**  
Filiz Z., OYMAK T., DURAL E.  
7thINTERNATIONALCONGRESSon MOLECULARBIOLOGY andBIOTECHNOLOGY, 25 - 27 April 2018
- XII. **Efficient removal of a basic dye-malachite green dye with biosorbent from aqueous solution**  
ERUYGUR N., OYMAK T.  
International Symposium on Multidisciplinary Studies and Innovative Technologies, 02 December 2018 - 04 December 2017
- XIII. **Usage in removal of indigo carmine by cross linkedegg white as new biosorbent**  
OYMAK T., BAĞDA E.  
19th International Symposium on EnvironmentalPollution and its Impact on Life in theMediterranean Region, 4 - 06 October 2017
- XIV. **EFFECTIVE AND RAPIDLY DETERMINATION OF U (VI) IN SEA WATERUSING Fe<sub>3</sub>O<sub>4</sub>/SiO<sub>2</sub>/APTES FUNCTIONALIZED WITH MUREXIDE**  
OYMAK T.  
23rd International Symposium on Separation Sciences (ISSS 2017), 19 - 22 September 2017
- XV. **FRACTIONATION OF METALS IN STREET DUSTS OF ORGANISEDINDUSTRIAL DISTRICT USING BCR SEQUENTIAL EXTRACTIONPROCEDURE**  
OYMAK T., TOKALIOĞLU Ş., yavuz e.  
23rd International Symposium on Separation Sciences (ISSS 2017), 19 - 22 September 2017
- XVI. **Modification and characterization of tea waste for removal of dyes from solutions**  
Demir Y., OYMAK T., ATEŞ A.  
2nd INTERNATIONAL CONFERENCE ONCIVIL AND ENVIRONMENTAL ENGINEERING, 8 - 10 May 2017
- XVII. **Modification and characterization of tea waste for removal of dyes from solutions**  
DEMİR Y., OYMAK T., ATEŞ A.  
2nd INTERNATIONAL CONFERENCE ON CIVIL AND ENVIRONMENTAL ENGINEERING, 8 - 10 May 2017
- XVIII. **DISTRIBUTION OF SOME HEAVY METALS IN VARIOUS CATTLE TISSUES IN SIVAS**  
OYMAK T., ULUSOY H. İ., HASTAOĞLU E., YILMAZ V., ARSLAN Z., YILDIRIM Ş.  
EUROPEAN SYMPOSIUM ON ATOMIC SPECTROMETRY, 31 March - 02 April 2016
- XIX. **Poli HEMA Akrilamid Metil Metakrilat li Polimerin Doksorubisin Etken Maddesiyle Salınımı ve Biyolojik Fonksiyonu**  
MISIR S., HEPOKUR C., OYMAK T., KARİPER İ. A.  
4. ilaç kongresi, Turkey, 17 - 20 March 2016
- XX. **4 İlaç Kimyası İlaç Etkin Maddesi Tasarımı Sentezi Üretimi veStandardizasyonu Kongresi**  
MISIR S., HEPOKUR C., OYMAK T., KARİPER İ. A.  
4. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi veStandardizasyonu Kongresi, Turkey, 17 - 20 March 2016
- XXI. **akrilamid türevli hidrojenlerin doksorubisin etken maddesi ile salınımı ve biyolojik fonksiyonu**  
MISIR S., HEPOKUR C., OYMAK T., KARİPER İ. A.  
4. ilaç kimyası, Turkey, 17 - 20 March 2016
- XXII. **Gümüş Nanopartikülere Bağlı Kapesitabin'in Meme Kanseri Hücre Serisi Üzerinde Antiproliferatif ve Proapoptotik Etkinliklerinin İncelenmesi**  
HEPOKUR C., OYMAK T., MISIR S., KARİPER İ. A.  
4. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi veStandardizasyonu Kongresi, Turkey, 17 - 20 March 2016
- XXIII. **gümüş nanopartiküllere bağlı kapesitabin'xxin meme kanseri hücre serisi üzerinde antiproliferatif ve proapoptotoik etkinliklerinin incelenmesi**  
HEPOKUR C., OYMAK T., MISIR S., KARİPER İ. A.  
4. ıalç kimyası kongresi, Turkey, 17 - 20 March 2016
- XXIV. **CO-PRECIPIATION OF RARE EARTH ELEMENTS AND SOMETRACE HEAVY METALS IN SEAWATER**

## **USING TRIETHYLAMINE FOR DETERMINATION BY ICP-MS**

OYMAK T., arslan z.

9th Aegean Analytical Chemistry Days AACD, 2014, 29 September - 03 October 2014

## **XXV. IMMOBILIZATION OF SALEN ON CHROMOSORB 106 POLYMER AND APPLICATION TO SOLID PHASE EXTRACTION OF TRACE ELEMENTS FOR ICP-MS ANALYSIS**

OYMAK T., white j., arslan z.

Mississippi Academy of Sciences, Seventy-Eighth Annual Meeting, 6 - 07 March 2014

## **XXVI. Use of CdTe quantum dots for the determination of urea in serum**

OYMAK T., TAMER U., ERTAŞ N.

The international Conference on Instrumental Methods of Analysis Modern Trends and Applications, 18 - 22 September 2011

## **XXVII. DETERMINATION OF LEAD AND CADMIUM IN VARIOUS FOOD SAMPLES BY GRAPHITE FURNACE ATOMIC ABSORPTION SPECTROMETRY AFTER SEPARATION BY USING THE COPRECIPITATION METHOD**

OYMAK T., TOKALIOĞLU Ş., YILMAZ V., KARTAL Ş., AYDIN D.

İsterh-Ntes-Htes'07 ,Greece, 21 - 26 October 2007

## **Activities in Scientific Journals**

International Journal of Academic Medicine and Pharmacy, Editor, 2019 - Continues

## **Scientific Refereeing**

BIOMASS CONVERSION AND BIOREFINERY, SCI Journal, July 2022

SEPARATION SCIENCE AND TECHNOLOGY, SCI Journal, May 2022

ANALYTICAL LETTERS, SCI Journal, March 2022

SEPARATION SCIENCE AND TECHNOLOGY, SCI Journal, February 2022

INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, Journal Indexed in SCI-E, April 2020

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, June 2017

## **Metrics**

Publication: 56

Citation (WoS): 406

Citation (Scopus): 480

H-Index (WoS): 8

H-Index (Scopus): 9

## **Scholarships**

2219, TUBITAK, 2013 - 2014

## **Non Academic Experience**

Plymouth University

Jackson State University

MİLLİ EĞİTİM BAKANLIĞI