

## Assoc. Prof. ZEYNEP CİĞEROĞLU

### Personal Information

**Email:** zeynep.ilbay@usak.edu.tr

**Web:** <https://avesis.usak.edu.tr/zeynep.ilbay>

### International Researcher IDs

ORCID: 0000-0001-5625-6222

ScopusID: 57201364701

Yoksis Researcher ID: 121965

### Education Information

Doctorate, Istanbul University, Fen Bilimleri Enstitüsü, Temel İşlemler Ve Termodinamik (Dr), Turkey 2011 - 2016

Postgraduate, Gebze Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Turkey 2009 - 2011

Undergraduate, Istanbul University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 2003 - 2008

### Dissertations

Doctorate, Turunçgil meyve ve yapraklarının farklı ekstraksiyon yöntemleriyle ekstraksiyonu ve matematik modellemesi, Istanbul University, Fen Bilimleri Enstitüsü, Temel İşlemler Ve Termodinamik (Dr), 2016

Postgraduate, Doğrudan metanol yakıt hücresinin kinetik modellenmesi ve modelin doğrulanması, Gebze Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), 2011

### Research Areas

Chemical Engineering and Technology, Chemistry

### Academic Titles / Tasks

Associate Professor, Usak University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2022 - Continues

Usak University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2018 - Continues

Research Assistant, Usak University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2016 - 2018

Research Assistant, Istanbul University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2012 - 2016

Research Assistant, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2009 - 2011

### Academic and Administrative Experience

Usak University, 2020 - Continues

Usak University, 2018 - Continues

## Courses

İstatistiksel Deneysel Tasarım, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Uzmanlık Alan Dersi II, Postgraduate, 2020 - 2021, 2019 - 2020  
Tez Çalışması I, Postgraduate, 2020 - 2021, 2019 - 2020  
Fizikokimya, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Kimya Laboratuvarı, Undergraduate, 2020 - 2021, 2019 - 2020  
Yakıt Hücreleri, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Kimyasal Reaktörlerin Optimizasyonu, Postgraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Kimya, Undergraduate, 2020 - 2021, 2019 - 2020  
Analitik Kimya Laboratuvarı, Undergraduate, 2020 - 2021, 2019 - 2020, 2017 - 2018, 2016 - 2017  
Bitirme Ödevi I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Elektrokimya, Undergraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018  
Bitirme Ödevi, Undergraduate, 2020 - 2021  
Tez Çalışması II, Postgraduate, 2020 - 2021, 2019 - 2020  
Uzmanlık Alan Dersi I, Postgraduate, 2020 - 2021, 2019 - 2020  
Bitirme Ödevi II, Undergraduate, 2019 - 2020, 2018 - 2019  
Termodinamik II, Undergraduate, 2019 - 2020, 2018 - 2019  
Bitirme Ödevi Stajı, Undergraduate, 2018 - 2019  
İstatistik, Undergraduate, 2018 - 2019  
Anorganik Kimya, Undergraduate, 2018 - 2019  
Yakıt Hücreleri, Postgraduate, 2018 - 2019  
Kimya Mühendisliği Termodinamiği, Undergraduate, 2018 - 2019  
Seminer, Postgraduate, 2018 - 2019  
Genel Kimya Laboratuvarı, Undergraduate, 2017 - 2018, 2016 - 2017  
Genel Kimya (İkinci Öğretim), Undergraduate, 2017 - 2018  
Temel Ölçümler Laboratuvarı, Undergraduate, 2017 - 2018  
Su Teknolojisi, Undergraduate, 2017 - 2018  
Temel İşlemler Laboratuvarı, Undergraduate, 2016 - 2017  
Temel Ölçümler, Undergraduate, 2016 - 2017

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

- I. **Ecofriendly bleaching method for cotton fabric: Development of titanium dioxide doped single wall carbon nanocomposites by photocatalytic treatment for sustainable textile pre-finishing applications**  
CİĞEROĞLU Z., ÖMEROĞULLARI BAŞYİĞİT Z.  
Journal of Molecular Liquids, vol.412, 2024 (SCI-Expanded)
- II. **Removal of food dyes using biological materials via adsorption: A review**  
ŞENOL Z. M., El Messaoudi N., CİĞEROĞLU Z., Miyah Y., ARSLANOĞLU H., BAĞLAM N., Kazan-Kaya E. S., Kaur P., Georgin J.  
Food Chemistry, vol.450, 2024 (SCI-Expanded)
- III. **Nano Photo Bleaching Method of Cotton Fabrics for a Sustainable Finishing**  
ÖMEROĞULLARI BAŞYİĞİT Z., CİĞEROĞLU Z.  
Fibers and Polymers, vol.25, no.8, pp.2913-2923, 2024 (SCI-Expanded)
- IV. **Monte Carlo, molecular dynamic, and experimental studies of the removal of malachite green using g-C<sub>3</sub>N<sub>4</sub>/ZnO/Chitosan nanocomposite in the presence of a deep eutectic solvent**  
KURTULBAŞ ŞAHİN E., CİĞEROĞLU Z., ŞAHİN SEVGİLİ S., El Messaoudi N., Mehmeti V.  
International Journal of Biological Macromolecules, vol.274, 2024 (SCI-Expanded)
- V. **Advances and future perspectives of water defluoridation by adsorption technology: A review**  
El Messaoudi N., Franco D. S. P., Gubernat S., Georgin J., ŞENOL Z. M., CİĞEROĞLU Z., Allouss D., El Hajam M.  
Environmental Research, vol.252, 2024 (SCI-Expanded)
- VI. **Advanced applications of hydroxyapatite nanocomposite materials for heavy metals and organic**

**pollutants removal by adsorption and photocatalytic degradation: A review**

Miyah Y., El Messaoudi N., Benjelloun M., AÇIKBAŞ Y., ŞENOL Z. M., CİĞEROĞLU Z., Lopez-Maldonado E. A. Chemosphere, vol.358, 2024 (SCI-Expanded)

- VII. **Clay-based nanomaterials and their adsorptive removal efficiency for dyes and antibiotics: A review**  
CİĞEROĞLU Z., El Messaoudi N., ŞENOL Z. M., BAŞKAN G., Georjin J., Gubernat S.  
Materials Today Sustainability, vol.26, 2024 (SCI-Expanded)
- VIII. **Green synthesis of CuFe<sub>2</sub>O<sub>4</sub> nanoparticles from bioresource extracts and their applications in different areas: a review**  
El Messaoudi N., CİĞEROĞLU Z., ŞENOL Z. M., Kazan-Kaya E. S., Fernine Y., Gubernat S., Lopovic Z.  
Biomass Conversion and Biorefinery, 2024 (SCI-Expanded)
- IX. **A comparative review of the adsorption and photocatalytic degradation of tetracycline in aquatic environment by g-C<sub>3</sub>N<sub>4</sub>-based materials**  
El Messaoudi N., CİĞEROĞLU Z., HASDEMİR Z. M., Elhajam M., Noreen L.  
Journal of Water Process Engineering, vol.55, 2023 (SCI-Expanded)
- X. **Green synthesis of Ag<sub>2</sub>O nanoparticles using Punica granatum leaf extract for sulfamethoxazole antibiotic adsorption: characterization, experimental study, modeling, and DFT calculation**  
El Messaoudi N., El Mouden A., Fernine Y., El Khomri M., Bouich A., Faska N., CİĞEROĞLU Z., Américo-Pinheiro J. H. P., Jada A., Lacherai A.  
Environmental Science and Pollution Research, vol.30, no.34, pp.81352-81369, 2023 (SCI-Expanded)
- XI. **Valorization of Citrus unshiu biowastes to value-added products: an optimization of ultrasound-assisted extraction method using response surface methodology and particle swarm optimization**  
Poyraz Ç., KÜÇÜKYILDIZ G., KIRBAŞLAR Ş. İ., CİĞEROĞLU Z., ŞAHİN SEVGİLİ S.  
Biomass Conversion and Biorefinery, vol.13, no.5, pp.3719-3729, 2023 (SCI-Expanded)
- XII. **Remediation of tetracycline from aqueous solution through adsorption on g-C<sub>3</sub>N<sub>4</sub>-ZnO-BaTiO<sub>3</sub> nanocomposite: Optimization, modeling, and theoretical calculation**  
CİĞEROĞLU Z., Kazan-Kaya E. S., El Messaoudi N., Fernine Y., Américo-Pinheiro J. H. P., Jada A.  
Journal of Molecular Liquids, vol.369, 2023 (SCI-Expanded)
- XIII. **Experimental study and theoretical statistical modeling of acid blue 25 remediation using activated carbon from Citrus sinensis leaf**  
Messaoudi N. E., Mouden A. E., Khomri M. E., Bouich A., Fernine Y., CİĞEROĞLU Z., Américo-Pinheiro J. H. P., Labjar N., Jada A., Sillanpää M., et al.  
Fluid Phase Equilibria, vol.563, 2022 (SCI-Expanded)
- XIV. **A comparative study of lipid oxidation in garlic oil (Allium sativum L.): An accelerated oxidation**  
CİĞEROĞLU Z., ŞAHİN SEVGİLİ S., KURTULBAŞ ŞAHİN E.  
Journal of Food Processing and Preservation, vol.46, no.10, 2022 (SCI-Expanded)
- XV. **Determination of component drag coefficients in direct methanol fuel cell**  
Bayramoğlu M., Kazan E. S., CİĞEROĞLU Z., Vasseghian Y.  
Sustainable Energy Technologies and Assessments, vol.52, 2022 (SCI-Expanded)
- XVI. **One-pot green preparation of deep eutectic solvent-assisted ZnO/GO nanocomposite for cefixime trihydrate photocatalytic degradation under UV-A irradiation**  
CİĞEROĞLU Z., ŞAHİN SEVGİLİ S., Kazan E. S.  
Biomass Conversion and Biorefinery, vol.12, pp.73-86, 2022 (SCI-Expanded)
- XVII. **Photocatalytic degradation of cefixime in aqueous solutions using functionalized SWCNT/ZnO/Fe<sub>3</sub>O<sub>4</sub> under UV-A irradiation**  
Erim B., CİĞEROĞLU Z., ŞAHİN SEVGİLİ S., Vasseghian Y.  
Chemosphere, vol.291, 2022 (SCI-Expanded)
- XVIII. **Boron removal from aqueous solutions by chitosan/functionalized-SWCNT-COOH: Development of optimization study using response surface methodology and simulated annealing**  
Taşçı T., KÜÇÜKYILDIZ G., Hepyalçın S., CİĞEROĞLU Z., ŞAHİN SEVGİLİ S., Vasseghian Y.  
Chemosphere, vol.288, 2022 (SCI-Expanded)
- XIX. **Preparation of a New Zwitterionic Sulfobetaine Methacrylate Based Superabsorbent Copolymer**

## **Hydrogel and Its Adsorption Behavior Toward Cationic and Anionic Dyes**

Taktak F., CİĞEROĞLU Z., Güler B.

Journal of Macromolecular Science, Part B: Physics, vol.61, no.2, pp.137-159, 2022 (SCI-Expanded)

- XX. **Preparation of ZnO/BaTiO<sub>3</sub> adsorbent using Elaeagnus Angustifolia L. leaf extract and its evaluation for ciprofloxacin removal from aqueous solutions: an optimization study**  
CİĞEROĞLU Z.  
Biomass Conversion and Biorefinery, vol.11, no.4, pp.1407-1417, 2021 (SCI-Expanded)
- XXI. **Green synthesis of TiO<sub>2</sub>/GO/chitosan by using leaf extract of Olea europaea as a highly efficient photocatalyst for the degradation of cefixime trihydrate under UV-A radiation exposure: An optimization study with D-optimal design**  
Erim B., CİĞEROĞLU Z., Bayramoğlu M.  
Journal of Molecular Structure, vol.1234, 2021 (SCI-Expanded)
- XXII. **Comparison of microwave-assisted techniques for the extraction of antioxidants from Citrus paradisi Macf. biowastes**  
CİĞEROĞLU Z., Bayramoğlu M., KIRBAŞLAR Ş. İ., ŞAHİN SEVGİLİ S.  
Journal of Food Science and Technology, vol.58, no.3, pp.1190-1198, 2021 (SCI-Expanded)
- XXIII. **Easy preparation of magnetic nanoparticles-rGO-chitosan composite beads: Optimization study on cefixime removal based on RSM and ANN by using Genetic Algorithm Approach**  
CİĞEROĞLU Z., KÜÇÜKYILDIZ G., Erim B., ALP E.  
Journal of Molecular Structure, vol.1224, 2021 (SCI-Expanded)
- XXIV. **Synthesis, characterization and an application of graphene oxide nanopowder: methylene blue adsorption and comparison between experimental data and literature data**  
CİĞEROĞLU Z., Haşimoğlu A., ÖZDEMİR O. K.  
Journal of Dispersion Science and Technology, vol.42, no.5, pp.771-783, 2021 (SCI-Expanded)
- XXV. **Structural and adsorption behaviour of ZnO/aminated SWCNT-COOH for malachite green removal: Face-centred central composite design**  
CİĞEROĞLU Z.  
Turkish Journal of Chemistry, vol.45, no.4, pp.1224-1236, 2021 (SCI-Expanded)
- XXVI. **Investigation of graphene oxide as highly selective adsorbent in recovery of hydroxytyrosol from olive mill wastewater**  
ŞAHİN SEVGİLİ S., CİĞEROĞLU Z., ÖZDEMİR O. K., Elhoussein E., Gülmez Ö.  
International Journal of Environmental Science and Technology, vol.17, no.12, pp.4803-4814, 2020 (SCI-Expanded)
- XXVII. **Experimental evaluation of the efficiency performance of the DMFC**  
Bayramoğlu M., CİĞEROĞLU Z., Kazan E. S.  
Environmental Progress and Sustainable Energy, vol.39, no.6, 2020 (SCI-Expanded)
- XXVIII. **Fast and effective methylene blue adsorption onto graphene oxide/amberlite nanocomposite: Evaluation and comparison of optimization techniques**  
CİĞEROĞLU Z., KÜÇÜKYILDIZ G., Haşimoğlu A., Taktak F., Açıksöz N.  
Korean Journal of Chemical Engineering, vol.37, no.11, pp.1975-1984, 2020 (SCI-Expanded)
- XXIX. **Highly efficient recovery of bioactive ingredients from solid waste of onions onto functionalized SWCNTs supported on amberlite nanocomposite**  
CİĞEROĞLU Z., ŞAHİN SEVGİLİ S.  
Iranian Polymer Journal (English Edition), vol.29, no.7, pp.607-614, 2020 (SCI-Expanded)
- XXX. **Kinetics and thermodynamics evaluation of oxidative stability in Oleum hyperici: A comparative study**  
ŞAHİN SEVGİLİ S., CİĞEROĞLU Z., KURTULBAŞ ŞAHİN E., Gizem Pekel A., İbik K.  
Journal of Pharmaceutical and Biomedical Analysis, vol.183, 2020 (SCI-Expanded)
- XXXI. **Naproxen Adsorption onto Graphene Oxide Nanopowders: Equilibrium, Kinetic, and Thermodynamic Studies**  
CİĞEROĞLU Z., ÖZDEMİR O. K., ŞAHİN SEVGİLİ S., Haşimoğlu A.

- Water, Air, and Soil Pollution, vol.231, no.3, 2020 (SCI-Expanded)
- XXXII. **Recovery of hydroxytyrosol onto graphene oxide nanosheets: Equilibrium and kinetic models**  
ŞAHİN SEVGİLİ S., CİĞEROĞLU Z., ÖZDEMİR O. K., BİLGİN M., Elhussein E., Gülmez Ö.  
Journal of Molecular Liquids, vol.285, pp.213-222, 2019 (SCI-Expanded)
- XXXIII. **Resin-loaded cationic hydrogel: A new sorbent for recovering of grapefruit polyphenols**  
Taktak F., CİĞEROĞLU Z., Ögen Y., KIRBAŞLAR Ş. İ.  
Chemical Engineering Communications, vol.205, no.10, pp.1442-1456, 2018 (SCI-Expanded)
- XXXIV. **Optimization of ultrasound-assisted extraction of phenolic compounds from grapefruit (Citrus paradisi Macf.) leaves via D-optimal design and artificial neural network design with categorical and quantitative variables**  
CİĞEROĞLU Z., Aras Ö., Pinto C. A., Bayramoglu M., KIRBAŞLAR Ş. İ., Lorenzo J. M., Barba F. J., Saraiva J. A., ŞAHİN SEVGİLİ S.  
Journal of the Science of Food and Agriculture, vol.98, no.12, pp.4584-4596, 2018 (SCI-Expanded)
- XXXV. **Optimization and kinetic studies of ultrasound-assisted extraction on polyphenols from Satsuma Mandarin (Citrus Unshiu Marc.) leaves**  
CİĞEROĞLU Z., KIRBAŞLAR Ş. İ., ŞAHİN SEVGİLİ S., Köprücü G.  
Iranian Journal of Chemistry and Chemical Engineering, vol.36, no.5, pp.163-171, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Comprehensive analytical review of heavy metal removal efficiency using agricultural solid waste-based bionanocomposites**  
El Messaoudi N., Miyah Y., ŞENOL Z. M., CİĞEROĞLU Z., Kazan-Kaya E. S., Gubernat S., Georgin J., Franco D. S.  
Nano-Structures and Nano-Objects, vol.38, 2024 (Scopus)
- II. **Ultrasonic-assisted removal of eriochrome black t onto vermicompost: Characterization, isotherm and kinetic modelling**  
CİĞEROĞLU Z., YILDIRIR E.  
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.8, no.4, pp.1251-1262, 2021 (Scopus)
- III. **Vermicompost as a potential adsorbent for the adsorption of methylene blue dye from aqueous solutions**  
CİĞEROĞLU Z., YILDIRIR E.  
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.7, no.3, pp.893-902, 2020 (Scopus)
- IV. **Investigation of Polyphenolic Content of Rose Hip Rosa canina L Tea Extracts A Comparative Study**  
İLBAY Z., ŞAHİN SEVGİLİ S., KIRBAŞLAR Ş. İ.  
FOODS, vol.2, no.1, pp.43-52, 2013 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **“ADSORPTION STUDY OF ERIOCHROME BLACK T ONTO TiO<sub>2</sub>/SWCNT FROM AQUEOUS PHASE**  
CİĞEROĞLU Z.  
6th International Conference on Environmental Science and Technology (ICOEST), Turkey, 21 - 25 October 2020
- II. **Removal of Cefixime from Aqueous Solution Using Magnetic Graphene/Chitosan Beads**  
CİĞEROĞLU Z., Erim B., Alp E.  
Nano TR 15, Antalya, Turkey, 3 - 06 November 2019
- III. **Highly Efficient Removal of Congo Red onto Poly[2- (Dimethylamino) Ethyl Methacrylate]/Pumice Stone Hydrogel Composite**  
CİĞEROĞLU Z., TAKTAK F. F., AÇIKSÖZ N.  
4TH INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Kiev, Ukraine, 2 - 06 May 2018
- IV. **Poly (2-Dimethyl Amino Ethyl Methacrylate)/Acrylic Acid as an Adsorbent for Methylene Blue**

## **Adsorption from Waste Water**

CİĞEROĞLU Z., TAKTAK F. F., GÜLER B.

4TH INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES, Kiev, Ukraine, 2 - 06 May 2018

- V. **An Ideal Candidate For Controlled Drug Release System :Poly(MEMA 2-N MorpholinoethylMethacrylate)/graphene oxide nanocomposite**  
İLBAY Z., TAKTAK F. F.  
13th Nanoscience and Nanotechnology Conference, 22 - 25 October 2017
- VI. **Microwave Assisted Magnetization of Chitosan Nanoparticles and Application for Removal of Hexavalent Chromium**  
İLBAY Z., BAYAZİT Ş. S., ŞAHİN SEVGİLİ S.  
13th Nanoscience and Nanotechnology Conference, Antalya, Turkey, 22 - 25 October 2017
- VII. **Nano-Graphene Oxide As An Adsorbent For Isolation Of Drug From Wastewater**  
CİĞEROĞLU Z., HAŞİMOĞLU A., ÖZDEMİR O. K.  
2. Material Science and Technology in Cappadocia, 11 - 13 October 2017
- VIII. **Nano-Graphene Oxide as an adsorbent for removal of dye from wastewater**  
HAŞİMOĞLU A., CİĞEROĞLU Z., ÖZDEMİR O. K.  
2. Material Science and Technology in Cappadocia, 11 - 13 October 2017
- IX. **An Optimization Study for Recovery of Polyphenols from the Citrus unshiu Marc. by Ultrasonic-Assisted Extraction Method**  
KIRBAŞLAR Ş. İ., poyraz ç., İLBAY Z., turgutoğlu e.  
10th World Congress of Chemical Engineering, 1 - 05 October 2017
- X. **Preventive Role of Cimin Grape Against Antineoplastic Drugs on Drosophila melanogaster**  
Ersöz Ç., Atıcı T., ALTUN ÇOLAK D., İLBAY Z.  
Ecology 2017, Kayseri, Turkey, 11 - 13 May 2017
- XI. **Protective Effects of Berberis crataegina Extract on Antineoplastic Agents-Induced Toxicity in Fruit Flies**  
Atıcı T., Ersöz Ç., ALTUN ÇOLAK D., İLBAY Z.  
Ecology 2017, Kayseri, Turkey, 11 - 13 May 2017
- XII. **Adsorption Properties of 2-(N-morpholino) ethyl methacrylate(MEMA) / 3-dimethyl (methacryloxyethyl) ammonium propanesulfonate (DMAAPS) Gels for Cationic and Anionic Dyes**  
İLBAY Z., TAKTAK F. F.  
3rd International conference on Engineering and Natural Science (ICENS), 3 - 07 May 2017
- XIII. **Novel Polysulfobetaine Copolymer Hydrogels: Synthesis, Characterization and Swelling Behaviours of 3-dimethyl(methacryloxyethyl) ammonium propane sulfonate (DMAPS) / 2-(N-morpholino)ethyl methacrylate (MEMA) Gels**  
TAKTAK F. F., İLBAY Z.  
3rd International conference on Engineering and Natural Science (ICENS), 3 - 07 May 2017
- XIV. **Recovery of Polyphenols from Biowaste through Integrated Process Extraction Adsorption via 2 dimethyl amino Ethyl Methacrylate Amberlite Composite**  
TAKTAK F. F., İLBAY Z., ÖĞEN Y., KIRBAŞLAR Ş. İ.  
ICCESEN 2016, 19 - 24 October 2016
- XV. **Experimental Determination of Some Critical Parameters of Direct Methanol Fuel Cell**  
İLBAY Z., BAYRAMOĞLU M. R.  
Iccesen 2016, 19 - 24 October 2016
- XVI. **Greyfurt Citrus Paradisi Macf Yapraklarından Polifenollerin Geri Kazanılması Ekstraksiyon Prosesinin D optimal Tasarımıyla Çok Amaçlı Optimizasyonu**  
İLBAY Z., BAYRAMOĞLU M. R., KIRBAŞLAR Ş. İ.  
12. Ulusal Kimya Mühendisliği Kongresi 2016, İzmir, Turkey, 23 - 26 August 2016, vol.1, pp.190
- XVII. **An approach for grapefruit leaf extraction through homogenizator Response surface methodology versus fuzzy model**  
İLBAY Z., BİLGİÇ B.

23rd Conference on Applied and Industrial Mathematics CAIM 2015, Suceava, ROMANYA, Suceava, Romania, 17 - 20 September 2015

- XVIII. **Fuzzy Modelling for extraction of total polyphenols from mandarin leaves**  
İLBAY Z., BİLGİÇ B.  
23rd Conference on Applied and Industrial Mathematics CAIM 2015, Suceava, Romania, 17 - 20 September 2015
- XIX. **Poly 2 Dimethylamino Ethyl Methacrylate Pumice Composite Hydrogel Preparation Characterization And Application In Rapid Adsorption Of Humic Acid**  
TAKTAK F. F., İLBAY Z.  
13MCCE, 13th Mediterranean Congress of Chemical Engineering, Spain, Barcelona, 30 September - 03 October 2014
- XX. **Optimization Of Ultrasound-Assisted Extraction Of Active Components From Satsuma Mandarin (Citrus unshiu Marc.) Leaves via Response Surface Methodology**  
KIRBAŞLAR Ş. İ., İLBAY Z., ŞAHİN SEVGİLİ S.  
13th Mediterranean Congress of Chemical Engineering, 30 September - 03 October 2014
- XXI. **Experimental Investigation of Faradaic And Energetic Efficiencies in An Active Direct Methanol Fuel Cell**  
İLBAY Z., BAYRAMOĞLU M. R.  
13th Mediterranean Congress of Chemical Engineering, 30 September - 03 October 2014
- XXII. **POLY[2-(DIMETHYLAMINO)ETHYL METHACRYLATE]/PUMICE COMPOSITE HYDROGEL:PREPARATION, CHARACTERIZATION AND APPLICATION IN RAPID ADSORPTION OF HUMIC ACİD**  
TAKTAK F. F., İLBAY Z.  
13th Mediterranean Congress Of chemical Engineering, 30 September - 03 October 2014
- XXIII. **evaluation of composition of bitter orange leaf oil obtained by hydrodistillation methods and antioxidant capacity**  
KIRBAŞLAR Ş. İ., İLBAY Z., boyanay k. ö., GÖK A., KIRBAŞLAR F. G.  
International symposium on essential oils, İstanbul, Turkey, 7 - 10 September 2014
- XXIV. **Doğrudan Methanol Yakıt Hücresinin Çalışması Sırasında Oluşan Formik Asit ve Formaldehit Konsantrasyonunun Deneysel İncelenmesi ve İstatiksel Değerlendirmesi**  
CİĞEROĞLU Z., BAYRAMOĞLU M. R.  
ukmk -11, Turkey, 2 - 05 September 2014
- XXV. **Isolation of naproxen from wastewater using magneticallay modified MWCNTs**  
İLBAY Z., ŞAHİN SEVGİLİ S., KERKEZ KUYUMCU Ö., BAYAZİT Ş. S.  
NANOTR10, 17 - 21 June 2014
- XXVI. **Response Surface Optimization of Ultrasound Assisted Extraction of Total Phenolic Content from Rosehip Rosa canina L**  
İLBAY Z., ŞAHİN SEVGİLİ S., KIRBAŞLAR Ş. İ.  
44th IUPAC World Chemistry Congress, Turkey, 11 - 16 August 2013
- XXVII. **Optimization Of Ultrasound Assisted Extraction Of Total Phenolic Content Of Papaver Somnifurum L Using Response Surface Methodology**  
TAKTAK F. F., İLBAY Z., ŞAHİN SEVGİLİ S.  
International Symposium On Medicinal-Aromatic Plants, 4 - 07 July 2013
- XXVIII. **Optimization of Ultrasound Assisted Extraction of Total Phenolic Content of Papaver Somnifurum L Using Response Surface Methodology**  
TAKTAK F. F., İLBAY Z., ŞAHİN SEVGİLİ S.  
International Symposium on Medicinal-Aromatic Plants, Turkey, 4 - 07 June 2013
- XXIX. **Kuşburnu Bitkisinden Elde Edilen Polifenollerin Ekstraksiyon Kinetiğinin İncelenmesi**  
İLBAY Z., ŞAHİN SEVGİLİ S., KIRBAŞLAR Ş. İ.  
10'ncu Ulusal Kimya Mühendisliği Kongresi, 3 - 06 September 2012
- XXX. **Experimental testing and parameter estimation of various macro kinetic schemes for dmfc**  
İLBAY Z., BAYRAMOĞLU M. R.  
20th International Congress of Chemical and Process Engineering CHISA 2012, Czech Republic, 25 - 29 August

2012

- XXXI. **Investigation of Polyphenolic Content of Rose Hip *Rosa canina* L Tea Extracts A Comparative Study**  
İLBAZ Z., ŞAHİN SEVGİLİ S., KIRBAŞLAR Ş. İ.  
"7th Chemical Engineering Conference for Collaborative Research in Eastern Mediterranean Countries (EMCC7),  
Greece, 27 April - 01 May 2012

## **Supported Projects**

Aslan M. Y., Hargreaves J., Ciğerođlu Z., TUBITAK Project, Destekli Monometalik Ve Bimetalik Molibdenyum Nitrür Esaslı Katalizörler ÜzerindeAmonyak Sentez Reaksiyonunun Araştırılması, 2024 - 2027

## **Metrics**

Publication: 70

Citation (Scopus): 759

H-Index (Scopus): 16