

## Assoc. Prof. ZEYNEP MİNE ŞENOL

### Personal Information

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### International Researcher IDs

ScholarID: h6x5tEEAAAAJ

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### Education Information

Doctorate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 2008 - 2013

Postgraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 2005 - 2008

Undergraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 2000 - 2004

### Foreign Languages

English, B1 Intermediate

### Certificates, Courses and Trainings

Vocational Training, Eğiticinin Eğitimi, Cumhuriyet Üniversitesi, 2018

Vocational Training, Biyokimyada Güncel Konular-II Yaz Okulu, Aksaray Üniversitesi, 2016

Vocational Training, Spektroskopi Yaz Okulu, Erzincan Üniversitesi, 2014

Vocational Training, TÜBİTAK PROJE YAZMA EĞİTİMİ, Kafkas Üniversitesi, 2013

Vocational Training, Öğretmenlik Sertifikası / Pedagojik Formasyon Eğitimi, Sivas Cumhuriyet Üniversitesi, 2010

Vocational Training, İyi Üretim Uygulamaları, Cumhuriyet Üniversitesi, 2009

Vocational Training, Analitik Validasyon Kalibrasyon, Cumhuriyet Üniversitesi, 2009

Vocational Training, ISO 9001, Cumhuriyet Üniversitesi, 2009

### Dissertations

Doctorate, Poliakrilamit-Kitosan-Kırmızı Çamur/Hidroksiapatit Kompozitlerinin Hazırlanması, Karakterizasyonu ve Kurşun ve Toryum için Adsorban Özelliklerinin Araştırılması, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2013

Postgraduate, Poliakrilamit-bentonit/zeolit kompozitlerine Tl+ ve Tl3+ adsorpsiyonunun incelenmesi, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, 2008

### Research Areas

Chemistry, Surface Chemistry, Natural Sciences

## Academic Titles / Tasks

Associate Professor, Sivas Cumhuriyet University, Sağlık Bilimleri Fakültesi, Beslenme Ve Diyetetik Bölümü, 2022 - Continues

Associate Professor, Sivas Cumhuriyet University, Zara Ahmet Çuhadaroğlu Meslek Yüksekokulu, Gıda İşleme, 2022 - 2022

Assistant Professor, Sivas Cumhuriyet University, Zara Ahmet Çuhadaroğlu Meslek Yüksekokulu, Gıda İşleme, 2015 - 2022

Assistant Professor, Kafkas University, Faculty Of Arts And Sciences, Department Of Chemistry, 2014 - 2015

Research Assistant, Kafkas University, Faculty Of Arts And Sciences, Department Of Chemistry, 2011 - 2014

## Academic and Administrative Experience

Assistant Director of Vocational School, Sivas Cumhuriyet University, Zara Ahmet Çuhadaroğlu Meslek Yüksekokulu, Gıda İşleme, 2021 - 2022

Meslek Yüksekokulu Yönetim Kurulu Üyesi, Sivas Cumhuriyet University, Zara Ahmet Çuhadaroğlu Meslek Yüksekokulu, Gıda İşleme, 2020 - 2022

Head of Department, Sivas Cumhuriyet University, Zara Ahmet Çuhadaroğlu Meslek Yüksekokulu, Gıda İşleme, 2015 - 2022

Erasmus Coordinator, Sivas Cumhuriyet University, 2015 - 2018

## Courses

Gıdalarda Renk Maddeleri, Postgraduate, 2023 - 2024

Su Kimyası, Postgraduate, 2023 - 2024

Temel Kimya Laboratuvar-I, Undergraduate, 2023 - 2024

Temel Kimya Laboratuvar Uygulaması-II, Undergraduate, 2022 - 2023

Kariyer Planlama, Undergraduate, 2023 - 2024

Serbest Radikaller ve Antioksidanlar, Undergraduate, 2023 - 2024

ilk yardım, Associate Degree, 2021 - 2022

Laboratuvar Teknikleri-I, Associate Degree, 2021 - 2022

Genel Biyoloji, Associate Degree, 2019 - 2020

Proje Hazırlama ve Değerlendirme, Associate Degree, 2018 - 2019

Özel Gıdalar Teknolojisi, Associate Degree, 2018 - 2019

Genel Kimya, Associate Degree, 2019 - 2020

Genel Mikrobiyoloji, Associate Degree, 2018 - 2019

Gıda Kimyası ve Biyokimya, Associate Degree, 2017 - 2018

Endüstriyel Kimya Lab., Undergraduate, 2014 - 2015

Kimyasal Kinetik, Undergraduate, 2014 - 2015

Genel Kimya, Undergraduate, 2014 - 2015

Kimyada Matematik Metotları, Undergraduate, 2014 - 2015

Genel Kimya Lab., Undergraduate, 2014 - 2015

Adsorpsiyon, Doctorate, 2014 - 2015

Enstrümental Analiz Lab., Undergraduate, 2014 - 2015

## Jury Memberships

Competition, Sivas Cumhuriyet Üniversitesi, April, 2018

Competition, TÜBİTAK - 2204 - B ORTAOKUL ÖĞRENCİLERİ ARAŞTIRMA PROJELERİ YARIŞMASI, Sivas Cumhuriyet University, April, 2017

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

- I. **A critical and comprehensive review of the removal of thorium ions from wastewater: Advances and future perspectives**  
ŞENOL Z. M., El Messaoudi N., Miyah Y., Georgin J., Franco D. S. P., Kazan-Kaya E. S., CİĞEROĞLU Z., Jada A.  
Journal of Water Process Engineering, vol.69, 2025 (SCI-Expanded)
- II. **Recent advances in the removal of Sunset Yellow dye from wastewater: A review**  
CİĞEROĞLU Z., El Messaoudi N., Miyah Y., Georgin J., Franco D. S., Benjelloun M., ŞENOL Z. M., Kazan-Kaya E. S., Temur Ergan B.  
Sustainable Materials and Technologies, vol.42, 2024 (SCI-Expanded)
- III. **Bioremoval of rhodamine B dye from aqueous solution by using agricultural solid waste (almond shell): experimental and DFT modeling studies**  
Şenol Z. M., Messaoudi N. E., Fernine Y., Keskin Z. S.  
Biomass Conversion and Biorefinery, vol.14, no.15, pp.17927-17940, 2024 (SCI-Expanded)
- IV. **The valorization of Prunus mahaleb shell through acid modification for the sorption of Pb<sup>2+</sup> removal from aqueous solution**  
Keskin Z. S., Şenol Z. M., Şimşek S.  
BIOMASS CONVERSION AND BIOREFINERY, vol.1, no.1, pp.1-13, 2024 (SCI-Expanded)
- V. **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., Açıkbaş Y., Şenol Z. M., Cığeroğlu Z., Lopez-Maldonado E. A.  
Chemosphere, vol.142236, pp.1-30, 2024 (SCI-Expanded)
- VI. **Adsorptive removal of synthetic dye from its aqueous solution by using chitosan-bentonite composite: DFT and experimental studies**  
Şenol Z. M., Ertap H., Fernine Y., El Messaoudi N.  
POLYMER BULLETIN, vol.1, no.1, pp.1-23, 2024 (SCI-Expanded)
- VII. **Comprehensive analytical review of heavy metal removal efficiency using agricultural solid waste-based bionanocomposites**  
El Messaoudi N., Miyah Y., Şenol Z. M., Cığeroğlu Z., Kazan-Kaya E. S., Gubernat S., Georgin J., Franco D. S.  
Nano-Structures and Nano-Objects, vol.38, pp.1-30, 2024 (SCI-Expanded)
- VIII. **Influential lead uptake using dried and inactivated-fungal biomass obtained from Panaeolus papilionaceus: biological activity, equilibrium, and mechanism**  
Şenol Z. M., Keskin Z. S., Dinçer E., Ayed A. B.  
BIOMASS CONVERSION AND BIOREFINERY, vol.1, no.1, pp.1-20, 2024 (SCI-Expanded)
- IX. **Advances and future perspectives of water defluoridation by adsorption technology: A review**  
El Messaoudi N., Pflingsten Franco D. S., Gubernat S., Georgin J., Şenol Z. M., Cığeroğlu Z., Allouss S., El Hajam M.  
Environmental Research, vol.118857, pp.1-67, 2024 (SCI-Expanded)
- X. **Removal of food dyes using biological materials via adsorption: A review**  
Şenol Z. M., El Messaoudi N., Cığeroğlu Z., Miyah Y., Arslanoğlu H., Bağlam N., Kazan-Kaya E. S., Kaur P., Georgin J.  
FOOD CHEMISTRY, vol.139398, pp.1-40, 2024 (SCI-Expanded)
- XI. **Influential Biosorption of Lead Ions from Aqueous Solution Using Sand Leek (Allium Scorodoprasum L.) Biomass: Kinetic and Isotherm Study**  
Şenol Z. M., Arslanoğlu H.  
BIOMASS CONVERSION AND BIOREFINERY, vol.17, pp.1-15, 2024 (SCI-Expanded)

- XII. **Clay-based nanomaterials and their adsorptive removal efficiency for dyes and antibiotics: A review**  
Ciğeroğlu Z., El Messaoudi N., Şenol Z. M., Başkan G., Georgin ., Gubernat .  
Materials Today Sustainability, vol.100735, no.1, pp.1-30, 2024 (SCI-Expanded)
- XIII. **Preparation of Polyacrylamide Titanium Dioxide Hybrid Nanocomposite by Direct Polymerization and Its Applicability in Removing Crystal Violet from Aqueous Solution**  
Arslan D. Ş., Ertap H., Şenol Z. M., El Messaoudi N., Mehmeti V.  
Journal of Polymers and the Environment , vol.32, no.1, pp.573-587, 2024 (SCI-Expanded)
- XIV. **Bioremoval of fast green FCF dye from aqueous solution using cranberry kernel (Cornus mas L.) as a lignocellulosic biowaste: equilibrium, kinetics, and mechanism**  
Şenol Z. M., Keskin Z. S., Saraç K., Şimşek S.  
International Journal of Environmental Analytical Chemistry, vol.104, no.19, pp.8411-8428, 2024 (SCI-Expanded)
- XV. **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 ., Cigeroğlu Z., Şenol Z. M., Kazan-Kaya E. S., Fernine Y., Gubernat S., Lopicic Z.  
BIOMASS CONVERSION AND BIOREFINERY, vol.1, no.1, pp.1-18, 2024 (SCI-Expanded)
- XVI. **Removal of methylene blue dye from aqueous solution using pure talc and polyacrylamide–talc composite: isotherms, kinetic and thermodynamic studies**  
Bilgiç M., Şimşek S., Şenol Z. M.  
POLYMER BULLETIN, vol.80, pp.11049-11067, 2023 (SCI-Expanded)
- XVII. **Performance of cross-linked chitosan-zeolite composite adsorbent for removal of Pb<sup>2+</sup> ions from aqueous solutions: Experimental and Monte Carlo simulations studies**  
Şenol Z. M., Elma E., El Messaoudi N., Mehmeti V.  
JOURNAL OF MOLECULAR LIQUIDS, vol.391, pp.123310-123322, 2023 (SCI-Expanded)
- XVIII. **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., Ciğeroğlu Z., Şenol Z. M., Elhajam M., Noureen L.  
JOURNAL OF WATER PROCESS ENGINEERING, vol.55, pp.104150-104173, 2023 (SCI-Expanded)
- XIX. **Effective removal of Allura red food dye from water using cross-linked chitosan-diatomite composite beads**  
Şen N. E., Şenol Z. M.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.1, pp.1-19, 2023 (SCI-Expanded)
- XX. **Synthesis and characterization of a new hybrid polymer composite (pollene@polyacrylamide) and its applicability in uranyl ions adsorption**  
Şenol Z. M., Keskin Z. S., Şimşek S.  
Journal of Radioanalytical and Nuclear Chemistry, vol.332, no.6, pp.2239-2248, 2023 (SCI-Expanded)
- XXI. **Prunus mahaleb shell as a sustainable bioresource for carminic acid removal from aqueous solution: Experimental and theoretical studies**  
Keskin Z. S., Şenol Z. M., Kaya S., Şimşek S.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1275, pp.1-11, 2023 (SCI-Expanded)
- XXII. **Recycling of Labada (Rumex) biowaste as a value-added biosorbent for rhodamine B (Rd-B) wastewater treatment: biosorption study with experimental design optimisation**  
Senol Z. M., Çetinkaya S., Arslanoğlu H.  
BIOMASS CONVERSION AND BIOREFINERY, vol.13, no.3, pp.2413-2425, 2023 (SCI-Expanded)
- XXIII. **Bioremoval of Safranin O dye by the identified lichen species called Evernia prunastri biomass; biosorption optimization, isotherms, kinetics, and thermodynamics**  
Şenol Z. M., Gul U. D., Şimşek S.  
BIOMASS CONVERSION AND BIOREFINERY, vol.12, no.9, pp.4127-4137, 2022 (SCI-Expanded)
- XXIV. **Insights into Effective Adsorption of Lead ions from Aqueous Solutions by Using Chitosan-Bentonite Composite Beads**  
Şenol Z. M., Şimşek S.  
Journal of Polymers and the Environment, vol.30, no.9, pp.3677-3687, 2022 (SCI-Expanded)

- XXV. **High-Performance Material for the Effective Removal of Uranyl Ion from Solution: Computationally Supported Experimental Studies**  
Şimşek S., Derin Y., Kaya S., Şenol Z. M., Katin K. P., Özer A.  
LANGMUIR, vol.1, no.1, pp.1-16, 2022 (SCI-Expanded)
- XXVI. **Synthesis and characterization of chitosan-vermiculite-lignin ternary composite as an adsorbent for effective removal of uranyl ions from aqueous solution: Experimental and theoretical analyses.**  
Şenol Z. M., Kaya S., Şimşek S., Katin K. P., Özer A., Marzouki R.  
International journal of biological macromolecules, vol.209, no.A, pp.1234-1247, 2022 (SCI-Expanded)
- XXVII. **Theoretical and experimental insights about the adsorption of uranyl ion on a new designed Vermiculite-Polymer composite**  
Şimşek S., Kaya S., Mine Şenol Z. M., Ulusoy H. İ., Katin K., Özer A., Altunay N., Brahmia A.  
Journal of Molecular Liquids, vol.352, 2022 (SCI-Expanded)
- XXVIII. **Epichlorohydrin and tripolyphosphate-crosslinked chitosan-kaolin composite for Auramine O dye removal from aqueous solutions: Experimental study and DFT calculations**  
Şenol Z. M., Çetinkaya S., Yenidünya A. F., Baçoğlu-Ünal F., Ece A.  
International Journal of Biological Macromolecules, vol.199, pp.318-330, 2022 (SCI-Expanded)
- XXIX. **Treatment of the Allura red food colorant contaminated water by a novel cyanobacteria *Desertifilum tharense***  
Gül Ü. D., Şenol Z. M., Taştan B. E.  
WATER SCIENCE AND TECHNOLOGY: WATER SUPPLY, vol.1, pp.1-12, 2022 (SCI-Expanded)
- XXX. **Application of kaolinite-based composite as an adsorbent for removal of uranyl ions from aqueous solution: kinetics and equilibrium study**  
Şenol Z. M., Keskin Z. S., Özer A., Şimşek S.  
Journal of Radioanalytical and Nuclear Chemistry, vol.331, no.1, pp.403-414, 2022 (SCI-Expanded)
- XXXI. **Effective biosorption of Allura red dye from aqueous solutions by the dried-lichen (*Pseudoevernia furfuracea*) biomass**  
Senol Z. M.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.102, no.16, pp.4550-4564, 2022 (SCI-Expanded)
- XXXII. **A chitosan-based composite for adsorption of uranyl ions; mechanism, isotherms, kinetics and thermodynamics**  
Senol Z. M.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.183, pp.1640-1648, 2021 (SCI-Expanded)
- XXXIII. **Optimization the removal of lead ions by fungi: Explanation of the mycosorption mechanism**  
Şenol Z. M., Gül Ü. D., Gurbanov R., Şimşek S.  
Journal of Environmental Chemical Engineering, vol.9, no.2, 2021 (SCI-Expanded)
- XXXIV. **Synthesis and characterization of chitosan-vermiculite composite beads for removal of uranyl ions: isotherm, kinetics and thermodynamics studies**  
Şenol Z. M., Şimşek S., Özer A., Şenol Arslan D.  
Journal of Radioanalytical and Nuclear Chemistry, vol.327, no.1, pp.159-173, 2021 (SCI-Expanded)
- XXXV. **Bio-sorption of bisphenol a by the dried- and inactivated-lichen (*Pseudoevernia furfuracea*) biomass from aqueous solutions**  
Senol Z. M., Gul U. D., GÜRKAN R.  
JOURNAL OF ENVIRONMENTAL HEALTH SCIENCE AND ENGINEERING, vol.18, no.2, pp.853-864, 2020 (SCI-Expanded)
- XXXVI. **Synthesis and characterization of chitosan-vermiculite composite beads as adsorbent for environmental removal of UO<sub>2</sub><sup>2+</sup> ions; isotherm, kinetic and thermodynamic studies**  
Şenol Z. M., Şimşek S., Özer A., Şenol Arslan D.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, pp.1, 2020 (SCI-Expanded)
- XXXVII. **Insight from adsorption properties of Xylidyl Blue embedded hydrogel for effective removal of uranyl: Experimental and theoretical approaches**

- Senol Z. M., ŞİMŞEK S., ULUSOY H. İ., Mahmood A., KAYA S.  
POLYMER TESTING, vol.88, 2020 (SCI-Expanded)
- XXXVIII. **Synthesis and characterization of a polyacrylamide-dolomite based new composite material for efficient removal of uranyl ions**  
Senol Z. M., Şimşek S., Ulusoy H. İ., Özer A.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.324, pp.317-330, 2020 (SCI-Expanded)
- XXXIX. **Removal of food dyes from aqueous solution by chitosan-vermiculite beads**  
Şenol Z. M., Gürsoy N., Şimşek S., Özer A., Karakuş N.  
International Journal of Biological Macromolecules, vol.148, pp.635-646, 2020 (SCI-Expanded)
- XL. **Equilibrium, kinetics and thermodynamics of Pb(II) ions from aqueous solution by adsorption onto chitosan-dolomite composite beads**  
Senol Z. M., ŞİMŞEK S.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, pp.1-15, 2020 (SCI-Expanded)
- XLI. **Assessment of Pb<sup>2+</sup> removal capacity of lichen (Evernia prunastri): application of adsorption kinetic, isotherm models, and thermodynamics**  
Senol Z. M., Gul U. D., Şimşek S.  
Environmental Science and Pollution Research, vol.26, pp.27002-27013, 2019 (SCI-Expanded)
- XLII. **Effective UO<sub>2</sub><sup>2+</sup> removal from aqueous solutions using lichen biomass as a natural and low-cost biosorbent**  
Gul U. D., Senol Z. M., Gürsoy N., Şimşek S.  
Journal of Environmental Radioactivity, pp.93-100, 2019 (SCI-Expanded)
- XLIII. **Preparation and characterization of a novel diatomite-based composite and investigation of its adsorption properties for uranyl ions**  
Senol Z. M., Arslan D. S., Şimşek S.  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, vol.321, no.3, pp.791-803, 2019 (SCI-Expanded)
- XLIV. **Synthesis and characterization of a composite polymeric material including chelating agent for adsorption of uranyl ions**  
Şimşek S., Senol Z. M., Ulusoy H. İ.  
Journal of Hazardous Materials, vol.338, pp.437-446, 2017 (SCI-Expanded)
- XLV. **Thallium adsorption onto polyacrylamide-aluminosilicate composites: A Tl isotope tracer study**  
Senol Z. M., ULUSOY U.  
Chemical Engineering Journal, vol.162, no.1, pp.97-105, 2010 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A comprehensive review on designing nanocomposite adsorbents for efficient removal of 4-nitrophenol from water**  
El Messaoudi N., Miyah Y., Benjelloun M., Georgin J., Franco D. S., Şenol Z. M., Ciğeroğlu Z., El Hajam M., Knani S., Nguyen-Tri P.  
Nano-Structures and Nano-Objects, vol.40, 2024 (Scopus)
- II. **Polyacrylamide@Tangerine Peel Composite: A Novel Adsorbent for Efficient Removal of Pb<sup>2+</sup> Ions from Water**  
Şenol Z. M.  
CUMHURİYET SCIENCE JOURNAL, vol.45, no.2, pp.322-330, 2024 (Peer-Reviewed Journal)
- III. **Removal of Pb<sup>2+</sup> Ions from Aqueous Medium by Using Chitosan Diatomite Composite: Equilibrium, Kinetic and Thermodynamic Studies**  
Şenol Z. M., Şimşek S.  
Journal of the Turkish Chemical Society Section A: Chemistry, vol.7, no.1, pp.307-318, 2020 (Scopus)
- IV. **Kitosan-Vermikülit Kompoziti Kullanılarak Sulu Çözeltiden Etkin Kurşun Giderimi: Denge, Kinetik ve Termodinamik Çalışmalar**

Şenol Z. M.

Academic Platform Journal of Engineering and Science, vol.1, no.8, pp.15-21, 2020 (Peer-Reviewed Journal)

V. **Removal of Cationic Dye in Aquatic Medium by Using a New Composite Material**

Şenol Z. M., Şimşek S.

Cumhuriyet Science Journal, vol.39, pp.181-191, 2018 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **Advanced Physicochemical Techniques for Wastewater Treatment**

El Messaoudi N., Georgin J., Ciğeroğlu Z., Şenol Z. M., Kazan Kaya E. S., Şenol Arslan D., El Hajam M., Lacherai A. in: Innovative and Hybrid Technologies for Wastewater Treatment and Recycling, Pervez Alam, Afzal Husain Khan, Juliana Heloisa Pinê Américo-Pinheiro, Kafeel Ahmad, Editor, Taylor & Francis Ltd, London, pp.1-40, 2024

II. **Green synthesis of nanoparticles for remediation organic pollutants in wastewater by adsorption**

El Messaoudi N., Ciğeroğlu Z., Şenol Z. M., Bouich A., Kazan-Kaya E. S., Noreen L., Pinê Américo-Pinheiro J. H. in: Advances in Chemical Pollution, Environmental Management and Protection, Luiz Fernando Romanholo Ferreira, Ajay Kumar, Muhammad Bilal, Damia Barcelo, Editor, Elsevier Science, Oxford/Amsterdam, New York, pp.1-35, 2023

III. **Çekirdek Kimyası**

HASDEMİR Z. M., KESKİN Z. S., ÜNGÖRDÜ A., SAYDAN KANBEROĞLU G., ÇAYLAK O., SAYGI K. Ö., SİVRİKAYA ÖZAK S., GÜNGÖR Ö., SEVEN ERDEMİR Ü., POLAT Ü., et al.

in: Sadeleştirilmiş Anlatımıyla Temel Üniversite Kimyası, Ulusoy Songül, Ulusoy Halil İbrahim, Editor, Akademisyen Yayınevi A.Ş., Ankara, pp.325-342, 2023

IV. **Beslenmede Antioksidan Bileşikler**

Şenol Z. M.

in: Güncel Biyokimya Çalışmaları IV, Doğan YÜCEL, Editor, Akademisyen Kitabevi, Ankara, pp.25-32, 2022

## Refereed Congress / Symposium Publications in Proceedings

I. **Investigation of adsorptive properties of chitosan-alginate biocomposite for effective removal of erythrosine B dye**

ŞENOL Z. M., KESKİN Z. S.

7th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2024), Ankara, Turkey, 02 October 2024

II. **Evaluating the Pb (II) Removal Efficiency of Prunus laurocerasus: Isotherms, Kinetic and Thermodynamic Studies**

Keskin Z. S., Şenol Z. M.

International Conference on Engineering, Natural Sciences, and Technological Developments (ICENSTED 2024), Balıkesir, Turkey, 19 - 21 July 2024, pp.1

III. **Effective removal of sunset yellow FCF food dye from wastewater by using a lemon peel-based hydrogel composite**

Şenol Z. M.

5th International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2024), Ankara, Turkey, 26 - 28 June 2024

IV. **Doğal ve Biyouyumlu Polimer Kompozit Küreleri Kullanılarak Endüstriyel Atık Sulardan Sunset Yellow FCF ve Rodamin B boyalarının giderimi**

Şenol Z. M., Keskin Z. S.

17. Ulusal Spektroskopi Kongresi, Zonguldak, Turkey, 30 May - 01 June 2024, pp.1-2

V. **Kitosan-Polen Kompoziti Kullanılarak Sulu Çözeltilerden Pb<sup>2+</sup> İyonlarının Etkin Adsorpsiyonu: Denge, Kinetik Ve Termodinamik Çalışmalar**

Şenol Z. M., Keskin Z. S.

17. Ulusal Spektroskopi Kongresi, Zonguldak, Turkey, 30 May - 01 June 2024, pp.1-2

- VI. **Prunus Mahaleb Shell as a Sustainable Biological Resource for Carminic Acid Removal from Wastewater**  
Keskin Z. S., Şenol Z. M., Şimşek S.  
5th International Conference on Physical Chemistry & Functional Materials, Sivas, Turkey, 23 June 2022
- VII. **Synthesis of Polyacrylamide@Pollen Composite and its Application in Uranyl Ion Removal**  
Ben Ayed A., Şenol Z. M., Şimşek S.  
5th International Conference on Physical Chemistry & Functional Materials, Sivas, Turkey, 23 June 2022
- VIII. **Investigation of Swelling Kinetics of Polyacrylamide@Chitosan Composite**  
Gharsallah F., Şenol Z. M., Şimşek S., Ghorbel N., Arous M.  
5th International Conference on Physical Chemistry & Functional Materials, Sivas, Turkey, 23 June 2022
- IX. **Removal of Uranyl Ions from Aqueous Solution by Using Chitosan-Sepiolite Composite**  
Şenol Z. M.  
4th International virtual Conference on Physical Chemistry & Functional Materials, Elazığ, Turkey, 08 April 2021
- X. **Liken (Evernia prunasti) biyokütlesi kullanılarak sulu çözümlerden kurşun giderimi**  
Şenol Z. M., Gül Ü. D., Şimşek S.  
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 19 - 20 March 2020
- XI. **Kitosan-vermikülit kompoziti kullanılarak sulu çözümlerden sunset yellow gıda boyasının etkin giderimi**  
Şimşek S., Şenol Z. M., Gürsoy N.  
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 19 - 20 March 2020
- XII. **Liken (Pseudovernia furfuracea) biyokütlesi kullanılarak sulu çözümlerden Allura red giderimi**  
Şenol Z. M.  
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), Ankara, Turkey, 19 - 20 March 2020
- XIII. **Kitosan-Diyatomit Kompoziti Kullanılarak Sulu Çözümlerden Kurşun Gideriminin Araştırılması**  
Şenol Z. M., Şimşek S.  
31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019
- XIV. **Likenlerden elde edilen biyosorbentlerin tekstil atık sularının arıtımında kullanım potansiyelinin belirlenmesi**  
Yavuz Ş. A., Gül Ü. D., Şenol Z. M.  
2nd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Ankara, Turkey, 28 June - 29 October 2019
- XV. **LİKENLERİN TEKSTİL BOYASI GİDERİMİNE PH VE TEMAS SÜRESİNİN ETKİSİNİN BELİRLENMESİ**  
Yavuz Ş. A., Gül Ü. D., Şenol Z. M.  
2. International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019
- XVI. **TEKSTİL BOYALARI İLE KONTAMİNE ATIK SULARIN ARITIMINDA UCUZ VE ÇEVRE DOSTU BİYOSORBENTLERİN KULLANIMI**  
Yavuz Ş. A., Gül Ü. D., Şenol Z. M.  
2ND INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES (EurasianBioChem 2019), Ankara, Turkey, 28 - 29 June 2019
- XVII. **Synthesis and Characterization of Polyacrylamide-Titanium Dioxide (PAA-TiO<sub>2</sub>) Composite**  
Şenol Arslan D., Şenol Z. M., Şimşek S.  
2nd International Conference on Physical Chemistry Functional Materials, Elazığ, Turkey, 25 - 27 June 2019
- XVIII. **Food dyes adsorption from aqueous solutions by chitosan/vermiculite composite**  
Şimşek S., Şenol Z. M., Gürsoy N., Karakuş N.  
2nd International Conference on Physical Chemistry Functional Materials (PCFM 2019), Elazığ, Turkey, 25 - 27

June 2019

- XIX. Adsorption of lead ions a aquatic medium onto chitosan/dolomite composite beads**  
Şenol Z. M., Şimşek S.  
2nd International Conference on Physical Chemistry Functional Materials (PCFM 2019), Nevşehir, Turkey, 25 - 27 June 2019
- XX. PAAm(Ch-Hap) kompozitinin sentezi ve kurşun ve toryum giderimindeki uygulamaları**  
Şenol Z. M., Ulusoy U.  
V. Ulusal Çevre Kongresi, Afyonkarahisar, Turkey, 29 October - 01 November 2018
- XXI. Poliakrilamid(Kitosan-Kırmızı Çamur) kompozit materyali kullanılarak sulu çözeltiden kurşun ve toryum giderimi**  
Şenol Z. M., Ulusoy U.  
V. Ulusal Çevre Kongresi, Afyonkarahisar, Turkey, 29 October - 01 November 2018
- XXII. A Novel Polymer/Mineral Composite: Synthesis and Characterization**  
Şenol Z. M., Şimşek S., Ulusoy H. İ.  
4th International Symposium on Composite Materials (KOMPEGE 2018), İzmir, Turkey, 6 - 08 September 2018
- XXIII. Synthesis and Characterization of Polyacrylamide-Vermiculite Composite Adsorbent**  
Şenol Z. M., Şimşek S., Ulusoy H. İ.  
4th International Symposium on Composite Materials (KOMPEGE 2018), İzmir, Turkey, 6 - 08 September 2018
- XXIV. Determination of Adsorptive Properties of Polyacrylamide-DolomiteComposite for Removal Uranly from Aqueous Solution**  
Şenol Z. M., Şimşek S., Ulusoy H. İ.  
International Trace Analysis Congress, Sivas, Turkey, 20 - 23 June 2018
- XXV. Removal Uranly from Aqueous Solution by using Polyacrylamide-Vermiculite Composite**  
Şenol Z. M., Şimşek S., Ulusoy H. İ.  
International Trace Analysis Congress (iTAC2018), Sivas, Turkey, 20 - 23 June 2018
- XXVI. Adsorption of UO<sub>2</sub> onto Polyacrylamide-diatomite composite**  
Şenol Z. M., Şimşek S.  
International Trace Analysis Congress (ITAC), Sivas, Turkey, 20 - 23 June 2018
- XXVII. Removal of Lead ions in aquatic medium by using Chitosan/Vemiculite composite beads**  
Şenol Z. M., Şimşek S.  
International Trace Analysis Congress (ITAC), Sivas, Turkey, 20 - 23 June 2018
- XXVIII. Synthesis and Characterization of Polyacrylamide-Diatomite Composite**  
Şenol Z. M., Şimşek S.  
International Conference on Physical Chemistry and Functional Materials (PCFM 2018), Sivas, Turkey, 19 - 21 June 2018
- XXIX. Synthesis and Characterization of Diatomite Composite Adsorbent**  
Şimşek S., Şenol Z. M.  
International Conference on Physical Chemistry and Functional Materials (PCFM 2018), Sivas, Turkey, 19 - 21 June 2018
- XXX. Preparation and Properties of Dolomite Composite**  
Şimşek S., Şenol Z. M.  
International Conference on Physical Chemistry and Functional Materials (PCFM 2018), Sivas, Turkey, 19 - 21 June 2018
- XXXI. Investigation of Structural Properties of Chitosan-Vermiculite Composite**  
Şenol Z. M., Şimşek S.  
International Conference on Physical Chemistry and Functional Materials (PCFM 2018), Elazığ, Turkey, 19 - 21 June 2018
- XXXII. Chelating Agent Grafted hydrogel for effective removal of uranyl ions**  
Şenol Z. M., Şimşek S., Ulusoy H. İ.  
International congress of Health and Environment, Adana, Turkey, 23 - 25 October 2017
- XXXIII. Chelating agent grafted hydrogel for effective removal of uranyl ions**

- Şenol Z. M., Şimşek S., Ulusoy H. İ.  
International Congress of Health and Environment, Adana, Turkey, 23 - 25 October 2017
- XXXIV. **Removal of Cationic dye in aquatic medium by using a new composite material**  
Şenol Z. M., Şimşek S.  
International Congress of Health and Environment, Adana, Turkey, 23 - 25 October 2017
- XXXV. **Synthesis of Chitosan-vermiculite composite beads and Its Application for Uranly Removal**  
Şenol Z. M., Şimşek S.  
III. International Porous Powder Materials, İzmir, Turkey, 12 - 15 September 2017
- XXXVI. **Synthesis of PAA XB composite and its application in uranyl removal**  
Şenol Z. M., Şimşek S., Ulusoy H. İ.  
IX. INTERNATIONAL WORKSHOP ON NUCLEAR STRUCTURE PROPERTIES, Sivas, Turkey, 1 - 03 September 2016
- XXXVII. **Poliakrilamit Kırmızı Çamur Kompozitlerinin Sentezi ve Karakterizasyonu**  
ŞENOL Z. M., BAYBAŞ D., ULUSOY U.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XXXVIII. **Poliakrilamit kırmızı çamur kompozitinin sentezi ve karakterizasyonu**  
ŞENOL Z. M., BAYBAŞ D., ULUSOY U.  
XXVII. Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015
- XXXIX. **Poliakrilamit kitosan hidroksiapatit kompozitinin sentezi ve karakterizasyonu**  
ŞENOL Z. M., ULUSOY U.  
V. Fiziksel Kimya Kongresi, Turkey, 19 - 22 May 2015
- XL. **Polietilen Hidroksiapatit Kil Nanokompozitlerinin Hazırlanması ve Karakterizasyonu**  
EJDER KORUCU M., ŞENOL Z. M.  
V. Fiziksel Kimya Kongresi, Turkey, 19 - 22 May 2015
- XLI. **Poliakrilamit kitosan hidroksiapatit kompozitinin şişme özelliğinin araştırılması**  
Şenol Z. M., Ulusoy U.  
V. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Tokat, Turkey, 1 - 04 September 2014
- XLII. **Poliakrilamid bentonit zeolit kompozitlerine Tl ve Tl3 adsorpsiyonunun izotop Tl 201 seyreltme yöntemiyle araştırılması**  
Şenol Z. M., Ulusoy U.  
X. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, Muğla, Turkey, 6 - 09 October 2009
- XLIII. **Poliakrilamid bentonit ve poliakrilamid zeolit kompozitlerine 201Tl radyoizotopu kullanılarak Tl ve Tl3 adsorpsiyonunun araştırılması**  
Şenol Z. M., Ulusoy U.  
XXII. Ulusal Kimya Kongresi, Lefkosia, Cyprus (Gkry), 6 - 10 October 2008
- XLIV. **Poliakrilamid bentonit ve poliakrilamid zeolit kompozitlerine Tl 201Tl adsorpsiyonunun araştırılması**  
Şenol Z. M.  
XXI. Ulusal Kimya Kongresi, Malatya, Turkey, 23 - 27 August 2007

## Supported Projects

- Şenol Z. M., Keskin Z. S., Project Supported by Higher Education Institutions, Ağır metal, anyonik ve katyonik boya ların biyosentezlenmiş ZnO nanopartikül ve bioatık üzerine adsorpsiyon mekanizmasının belirlenmesi, 2023 - 2025
- Şenol Z. M., Keskin Z. S., Project Supported by Higher Education Institutions, Doğal ve biyoyumlu polimer kompozit küreleri kullanılarak endüstriyel atık sulardan sunset yellow FCF (E110) ve eritrosin (E127) gıda boya larının giderimi, 2023 - 2024
- Şenol Z. M., Aktulum S. Ö., İpekli E., TUBITAK Project, Limon kabuğu temelli hidrojel kompozitin sentezi, karakterizasyonu ve sulu çözeltiden Pb<sup>2+</sup> iyonları gideriminde adsoban özelliklerinin araştırılması, 2023 - 2024
- Şenol Z. M., Ertap H., Project Supported by Higher Education Institutions, Bentonit kompozit kürelerinin sentezi, karakterizasyonu ve sulu çözeltiden metil oranj boyasının giderimde adsorptif özelliklerinin araştırılması, 2023 - 2024
- Keskin Z. S., Şenol Z. M., Project Supported by Higher Education Institutions, Tarımsal atık (Prunus mahalep kabuğu)

kullanılarak sulu çözümlerden Pb<sup>2+</sup> + adsorpsiyonunun optimum koşullarının belirlenmesi, 2022 - 2023

Şenol Z. M., Elma E., TÜBİTAK Project, Kitosan-temelli kompozit boncukları kullanılarak atık sulardan kurşun gideriminin araştırılması, 2022 - 2023

Şenol Z. M., Şen N. E., TÜBİTAK Project, Allura red gıda boyasının atık sulardan gideriminde kitosan temelli kompozitin etkinliğinin araştırılması, 2022 - 2023

Şimşek S., Gürsoy N., Şenol Z. M., Project Supported by Higher Education Institutions, Doğal polimer/mineral kompoziti kullanılarak gıda boyaları gideriminin araştırılması, 2019 - 2022

Şenol Z. M., Şimşek S., Project Supported by Higher Education Institutions, Liken (*Evernia prunastri*) biyokütlesi kullanılarak sulu çözümlerden kurşun gideriminin araştırılması, 2019 - 2022

Şenol Z. M., Şimşek S., Project Supported by Higher Education Institutions, Kitosan-diyatomit/dolomit/vermikülit kompozit adsorbanlarının sentezi, karakterizasyonu ve Pb<sup>2+</sup> için adsorban özelliklerinin araştırılması, 2018 - 2019

Şenol Z. M., Şimşek S., Project Supported by Higher Education Institutions, Poliakrilamid/diyatomit kompozit adsorbanının sentezi, karakterizasyonu ve uranyl iyonu için adsorban özelliklerinin araştırılması, 2017 - 2019

Ulusoy H. İ., Şimşek S., Şenol Z. M., Project Supported by Higher Education Institutions, Synthesis and characterization of polyacrylamide/dolomite and polyacrylamide/vermiculite composite adsorbents and investigation of uranyl adsorption to these adsorbents., 2017 - 2019

Şimşek S., Şenol Z. M., Şenol Z. M., Project Supported by Higher Education Institutions, Diyatomit kompozitine katyonik boya adsorpsiyonunun araştırılması, 2017 - 2017

Şenol Z. M., Ulusoy U., Project Supported by Higher Education Institutions, Poliakrilamid Kitosan Kırmızı Çamur Hidroksiapatit Kompozitlerinin Hazırlanması Karakterizasyonu ve Kurşun ve Toryum için Adsorban Özelliklerinin Araştırılması, 2012 - 2013

Şenol Z. M., Ulusoy U., Project Supported by Higher Education Institutions, Poliakrilamid Bentonit ve Poliakrilamid Zeolit Kompozitlerine Tl ve Tl<sup>3+</sup> adsorpsiyonunun izotop seyreltme yöntemiyle araştırılması, 2006 - 2008

## Activities in Scientific Journals

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Evaluation Committee Member, 2023 - Continues

## Scientific Refereeing

BIOMASS CONVERSION AND BIOREFINERY, Journal Indexed in SCI-E, December 2024

BIOMASS CONVERSION AND BIOREFINERY, Journal Indexed in SCI-E, November 2024

JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, November 2024

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BRAZILIAN JOURNAL OF CHEMICAL ENGINEERING, Journal Indexed in SCI-E, October 2024

CHIANG MAI JOURNAL OF SCIENCE, Journal Indexed in SCI-E, October 2024

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JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, Journal Indexed in SCI-E, September 2024

JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, Journal Indexed in SCI-E, September 2024

ADVANCED COMPOSITES AND HYBRID MATERIALS, Journal Indexed in SCI-E, September 2024

JOURNAL OF POLYMERS AND THE ENVIRONMENT, Journal Indexed in SCI-E, September 2024

SCIENTIFIC REPORTS, Journal Indexed in SCI-E, August 2024

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JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, August 2024  
CLEAN TECHNOLOGIES AND ENVIRONMENTAL POLICY, Journal Indexed in SCI-E, August 2024  
BIOMASS CONVERSION AND BIOREFINERY, Journal Indexed in SCI-E, August 2024  
BMC Chemistry, Journal Indexed in SCI-E, August 2024  
Discover Chemistry, National Scientific Refreed Journal, July 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, July 2024  
Rendiconti Lincei. Scienze Fisiche e Naturali, Journal Indexed in SCI-E, July 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, July 2024  
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JOURNAL OF POLYMERS AND THE ENVIRONMENT, National Scientific Refreed Journal, July 2024  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, June 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, June 2024  
WATER, AIR & SOIL POLLUTION: FOCUS, Journal Indexed in SCI-E, June 2024  
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JOURNAL OF MOLECULAR LIQUIDS, National Scientific Refreed Journal, June 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, June 2024  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, June 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, June 2024  
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JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, Journal Indexed in SCI-E, June 2024  
JOURNAL OF ENVIRONMENTAL RADIOACTIVITY, Journal Indexed in SCI-E, May 2024  
JOURNAL OF POLYMERS AND THE ENVIRONMENT, Journal Indexed in SCI-E, May 2024  
Environmental Geochemistry and Health, Journal Indexed in SCI-E, May 2024  
Discover Chemistry, Journal Indexed in SCI-E, April 2024  
JOURNAL OF NANOPARTICLE RESEARCH, Journal Indexed in SCI-E, April 2024  
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Materials, Journal Indexed in SCI-E, April 2023  
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APPLIED SCIENCES, Journal Indexed in SCI-E, March 2023  
SEPARATIONS, Journal Indexed in SCI-E, February 2023  
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JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, August 2022  
JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, July 2022  
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SCIENTIFIC REPORTS, Journal Indexed in SCI-E, May 2022  
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JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, April 2022  
BIOMASS CONVERSION AND BIOREFINERY, Journal Indexed in SCI-E, March 2022  
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SUGAR TECH, Journal Indexed in SCI-E, January 2022  
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JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, SCI Journal, December 2021  
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, October 2021  
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JOURNAL OF RADIOANALYTICAL AND NUCLEAR CHEMISTRY, Journal Indexed in SCI-E, December 2020  
POLYMER BULLETIN, Journal Indexed in SCI-E, October 2020  
BIOMASS CONVERSION AND BIOREFINERY, Journal Indexed in SCI-E, September 2020  
International Journal of Pure and Applied Sciences, Other Journals, September 2020  
Academic Platform Journal of Engineering and Science - APJES, Other Journals, August 2020  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, June 2020  
Open Journal of Nano, Other Journals, August 2019  
ACADEMIC PLATFORM-JOURNAL OF ENGINEERING AND SCIENCE, National Scientific Refreed Journal, July 2019  
Cumhuriyet Science Journal, National Scientific Refreed Journal, November 2017

## **Scientific Consultations**

TÜBİTAK, Project Consultancy, Sivas Cumhuriyet University, Sağlık Bilimleri Fakültesi, Beslenme Ve Diyetetik Bölümü,  
Turkey, 2024 - 2024

## **Metrics**

Publication: 102

Citation (WoS): 262

Citation (Scopus): 336

H-Index (WoS): 10

H-Index (Scopus): 12

## **Awards**

Hasdemir Z. M., Garanti Bilim Teşvik Ödülü, Fen Bilimleri Dalında Üçüncülük, Garanti Bilim Teşvik Ödülü, February 2012

Hasdemir Z. M., Kimya Bölüm Birinciliği, Sivas Cumhuriyet Üniversitesi, June 2004