

Curriculum Vitae

1. Communication details

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Adress: Famagusta, KKTC

2. Personal Details

Name: Selma Ustürk

Birth date: 19.12.1995

Birth Place: Famagusta- TRNC

Nationality: Cypriot

Marital Status: Bachelor

3. Education details

Ph.D. in Chemistry (4.00/ 4.00), September 2024, Eastern Mediterranean University (EMU), TRNC

Title of PhD Thesis: “PEGMA and PNVI Based Hydrogels for Biomedical Application”
(Supervisor: Prof. Dr. Elvan Yılmaz)

M.S. in Chemistry (3.86/ 4.00), 2019, Eastern Mediterranean University (EMU), TRNC

Title of Master Thesis: “Pullulan/Poly (2-Hydroxyl Ethyl Methacrylate) Cryogels”
(Supervisor: Prof. Dr. Elvan Yılmaz)

B.S. in Chemistry (3.23/4.00), 2017, Hacettepe University, Ankara- Turkey

4. Languages

Turkish: Native

English: Fluent

5. Scholarships

- 2013-2014 TRNC-Ministry of Education- Bursary
- 2014-2015 TRNC-Ministry of Education- Bursary
- 2015-2016 TRNC-Ministry of Education- Bursary
- 2016-2017 TRNC-Ministry of Education- Bursary
- 2017- Eastern Mediterranean University (EMU)- assistantship

6. Experiences

- 2017-2019, Chemistry teacher in schools of Ilim-Final.
- Eastern Mediterranean University (EMU)- Departments of Physics and Chemistry- Chemistry Research and Teaching Assistant (2017-)
- List of courses assisted:
 - **CHEM 101, CHEM103, CHEM105, CHEM111-** General Chemistry
 - **CHEM112** General Chemistry II
 - **KİMY103** Temel Kimya
 - **CHEM211** Physical Chemistry I

- **CHEM212** Physical Chemistry II
- **CHEM247** Analytical Chemistry I
- **CHEM248** Analytical Chemistry II
- **CHEM340** Physical Chemistry III

➤ List of courses taught:

- **SCI223** Patterns of Drug Use
- **KİMY103** Temel Kimya

7. Articles in Refereed Journals

SCI/SCIE-Indexed Articles

- 1) **Ustürk, S.**, Yilmaz, E. and Mutlu Altundağ, E., 2024. Low fouling and pH-responsive poly (N-vinyl imidazole)/poly (ethylene glycol) methacrylate copolymer gels for colon targeted diclofenac sodium delivery. *International Journal of Polymeric Materials and Polymeric Biomaterials*, pp.1-14.
- 2) Altundag, E. M., **Ustürk, S.**, Özbilenler, C., Sezer, E., Kısaçam, D., Ömerağa, D., ... & Kardaş, S. N. Combinational Synergistic Role of Thymoquinone and Celastrol in Colon Carcinoma Cell Line. *Biological Diversity and Conservation*, 17(3), 190-197.
- 3) Marjan Hezarkhani, **Ustürk, S.**, Özbilenler, C. *et al.* pH-Responsive Pullulan Based Adsorbent Functionalized by Poly(N-vinylimidazole): Synthesis, Characterization and Dye Removal Application. *J. Water Chem. Technol.* **46**, 531–542 (2024).
- 4) Abakan, İ., Özbilenler, C., **Ustürk, S.**, Kerküklü, N.R., Gulcan, H.O., Güran, M. and Gazi, M., 2024. Preparation of Carboxymethyl Cellulose/Polyvinyl Alcohol Cryogels for the Removal of Methylene Blue Dye from Aqueous Media. *Journal of Water Chemistry and Technology*, 46(2), pp.157-168.
- 5) Mutlu Altundağ, E., Jannuzzi, A.T., Özbilenler, C., **Ustürk, S.** and Altınoğlu, G., 2024. Synergistic role of thymoquinone and 5-fluorouracil in U-251MG glioblastoma cell line. *Turkish Journal of Biochemistry*, 49(1), pp.82-89. doi: 10.1515/tjb-2023-0150.
- 6) Becer, E., Altundağ, E.M., Güran, M., Vatansever, H.S., **Ustürk, S.**, Hanoğlu, D.Y. and Başer, K.H.C., 2023. Composition and antibacterial, anti-inflammatory, antioxidant, and anticancer activities of *Rosmarinus officinalis* L. essential oil. *South African Journal of Botany*, 160, pp.437-445.
- 7) **Ustürk, S.**, Altundag, E.M. and Yilmaz, E., 2022. Pullulan/polyHEMA cryogels: Synthesis, physicochemical properties, and cell viability. *Journal of Applied Polymer Science*, 139(12), p.51822.

- 8) Hezarkhani, M., **Ustürk, S.**, Özbilenler, C. and Yilmaz, E., 2021. Pullulan/poly (N-vinylimidazole) cryogel: An efficient adsorbent for methyl orange. Journal of Applied Polymer Science, 138(37), p.50958. doi: 10.1002/app.50958.
- 9) Altundağ, E.M., Özbilenler, C., **Ustürk, S.**, Kerküklü, N.R., Afshani, M. and Yilmaz, E., 2021. Metal-based curcumin and quercetin complexes: Cell viability, ROS production and antioxidant activity. Journal of Molecular Structure, 1245, p.131107.

8. Professional Conferences (International)

- 1) Usturk S, Mutlu Altundag E., Yılmaz E. Diclofenac Sodium Loading into Poly(NVI- *co*-PEGMA) Cryogels, Release Studies, Kinetic Parameters and Anti-Inflammatory Activity 7. International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2024), Ankara,Turkey.
- 2) Usturk S, Mutlu Altundag E. Ciprofloxacin in combination with quercetin and curcumin act strong synergistically to inhibit proliferation of colon carcinoma cells 6. International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2023), Ankara,Turkey.

9. Professional Conferences (National)

- 1) **Ustürk, S.**, Yilmaz, E. and Altundag, E.M. Poli(N-vinil imidazol) Bazlı Jellerin Sentezi, Protein Adsorplama ve Hücre Canlılığı Davranışlarının İncelenmesi. 34. Ulusal Kimya Kongresi, Yalova, Türkiye, Eylül 2022. (Sözlü Sunum).
- 2) **Ustürk, S.**, and Yilmaz, E. pH- Duyarlı Poli N-Vinil İmidazol Bazlı Jeller Bovin Serum Adsorpsiyon Termodinamiğinin Çalışılması. 34. Ulusal Kimya Kongresi, Yalova, Türkiye, Eylül 2022. (Poster Sunumu).

10. Research Grants

- 1) Cryogels of poly(ethylene glycol methacrylate) and N-vinyl imidazole Optimization of Synthesis Conditions and Investigation of Cell Viability. Proje Numarası: BAP-C-04-21-05. Araştırmacı: **Selma Ustürk**. Proje Yürütücüsü: Prof. Dr. Elvan Yılmaz. (Aralık 2021- Aralık 2022).

11.References

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