

AKADEMİK ÖZGEÇMİŞ

1. Adı Soyadı: Süleyman AŞIR

2. Unvanı: Doç. Dr.

3. Öğrenim Durumu:

Derece	Bölüm/Program	Üniversite	Yıl
Lisans	Kimya	Hacettepe Üniversitesi	2002
Y. Lisans	Kimya - Biyokimya	Hacettepe Üniversitesi	2004
Doktora	Kimya – Organik Kimya	Doğu Akdeniz Üniversitesi	2009

4. Yüksek Lisans / Doktora Tezi

4.1. Yüksek Lisans Tez Başlığı ve Tez Danışman(lar)ı: Preparation of Ion-Selective Imprinted Polymeric Monolith for Cadmium Detoxification from Human Plasma, Danışman: Prof. Dr. Adil Denizli

4.2. Doktora Tezi/Tıpta Uzmanlık Tezi Başlığı ve Danışman(lar)ı: The Synthesis of Chiral Perylene and Naphthalene Diimides, Danışman: Prof. Dr. Huriye Icil, Eşdanışman: Prof. Dr. Ayhan S. Demir (from METU-Ankara)

5. Akademik Unvanlar:

Yardımcı doçentlik tarihi: 21/12/2015

Doçentlik tarihi: 11/04/2022

Profesörlük tarihi: -

6. Yönetilen Yüksek Lisans ve Doktora Tezleri:**6.1. Yüksek lisans tezleri**

- Electrochemical Determination of Adriamycin- DNA Interaction Using Fe₃O₄ Nanoparticles Modified Carbon Paste Electrode, Minwer E'waysi Bseibes Alsarhan, 2020.
- Effect of Iron Oxide Nanoparticles on the Prediction of Ferricyanide Concentration by Carbon Paste Electrode Using Machine Learning, Najya Maarof Saleem Saleem, 2021.
- Synthesis of Sulfamethoxazole Surface Imprinted Core-Shell Magnetic Nanoparticles for Selective Detection of Sulfamethoxazole in Poultry by an Electrochemical Sensor, Tuleen Faridon Bahjat Shegem, 2021.
- Electrochemical Determination of Dopamine in the Presence of Ascorbic Acid Using Machine Learning Technique, Chukwuebuka Ikpeama C, 2023.

6.2. Doktora tezleri

- Electrochemical Detection of DNA and Their Interaction with Chemical Compounds, Pwadubashiyi Coston Pwavodi, 2021.
- Determination of Multi-Pesticide Residues in Honey with a Modified Quechers Procedure Followed by LC-MS/MS and GC/MS-MS, Beste Oymen, 2022.
- Gold-Modified Molecularly Imprinted N-Methacryloyl-(L)-Phenylalanine Containing Electrodes for Electrochemical Detection of Dopamine, Nemah Abushama, 2022.
- Development of a Plasmonic Sensor for a Chemotherapeutic Agent Cabazitaxel, Buse Uğur, 2023.

7. Yayınlar

7.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI,SSCI, AHCI, ESCI, Scopus)

- 1- Shama, N. A., Aşır, S., Göktürk, I., Yılmaz, F., Türkmen, D., & Denizli, A. (2023). **Electrochemical Detection of Cortisol by Silver Nanoparticle-Modified Molecularly Imprinted Polymer-Coated Pencil Graphite Electrodes**. *ACS omega*, 8(32), 29202-29212.
- 2- Oymen, B., Jalilzadeh, M., Yılmaz, F., Aşır, S., Türkmen, D., & Denizli, A. (2023). **Simple and Fast Pesticide Nanosensors: Example of Surface Plasmon Resonance Coumaphos Nanosensor**. *Micromachines*, 14(4), 707.
- 3- Koç, İ., Şarkaya, K., Türkmen, D., Aşır, S., & Denizli, A. (2023). **Preparation of Immobilised 17β-Estradiol-Imprinted Nanoparticles onto Bacterial Cellulose Nanofibres to Use for the Removal of 17β-Estradiol from Wastewater**. *Polymers*, 15(5), 1201.
- 4- Kayali, D., Shama, N. A., Asir, S., & Dimililer, K. (2023). **Machine learning-based models for the qualitative classification of potassium ferrocyanide using electrochemical methods**. *The Journal of Supercomputing*, 1-20.
- 5- Aşır, S., Uğur, B., Jalilzadeh, M., Göktürk, I., & Türkmen, D. (2022). **Development of a Plasmonic Sensor for a Chemotherapeutic Agent Cabazitaxel**. *ACS omega*, 8(1), 492-501.
- 6- Kannin, D., Moghazi, M., Aşır, S., Büyük, S., & Kaba, Ş. (2022). **Viral Nano-Bio-Sensing and SARS-CoV-2: A Literature Review**. *Cyprus Journal of Medical Sciences*, 7(5).
- 7- Ektirici, S., Kurç, O., Jalilzadeh, M., Aşır, S., & Türkmen, D. (2022). **Computational investigation of the monomer ratio and solvent environment for the complex formed between sulfamethoxazole and functional monomer methacrylic acid**. *ACS omega*, 7(20), 17175-17184.
- 8- Abu Shama, N., Aşır, S., Ozsoz, M., Göktürk, I., Türkmen, D., Yılmaz, F., & Denizli, A. (2022). **Gold-Modified Molecularly Imprinted N-Methacryloyl-(l)-phenylalanine-containing Electrodes for Electrochemical Detection of Dopamine**. *Bioengineering*, 9(3), 87.
- 9- Asir, S., Bakhshpour, M., Unal, S., & Denizli, A. (2022). **Nanoparticle-based plasmonic devices for bacteria and virus recognition**. In *Modern Practical Healthcare Issues in Biomedical Instrumentation* (pp. 167-183). Academic Press.
- 10- Oymen, B., Aşır, S., Türkmen, D., & Denizli, A. (2022). **Determination of multi-pesticide residues in honey with a modified QuEChERS procedure followed by LC-MS/MS and GC-MS/MS**. *Journal of Apicultural Research*, 1-13.
- 11- Türkmen, D., Bakhshpour, M., Göktürk, I., Aşır, S., Yılmaz, F., & Denizli, A. (2021). **Selective dopamine detection by SPR sensor signal amplification using gold nanoparticles**. *New Journal of Chemistry*, 45(39), 18296-18306.
- 12- Refiker, H., & Asir, S. (2021). **HEALTH PROMOTING BREAD; COMPRISING NATURAL-MIRACLE ANTHOCYANINS**. *Journal of microbiology, biotechnology and food sciences*, 10(5), e3354-e3354.
- 13- Pwavodi, P. C., Ozyurt, V. H., Asir, S., & Ozsoz, M. (2021). **Electrochemical Sensor for Determination of Various Phenolic Compounds in Wine Samples Using Fe₃O₄ Nanoparticles Modified Carbon Paste Electrode**. *Micromachines*, 12(3), 312.
- 14- Shama, N. A., Asir, S., Dimililer, K., & Özsöz, M. (2020, October). **Potassium Ferro cyanide electrochemically detected by Differential Pulse and Square Wave Voltammetry in a Competition using Gradient Boosting as Machine Learning Algorithm**. In *2020 4th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)* (pp. 1-4). IEEE.
- 15- Şarkaya, K., Aşır, S., Göktürk, I., Yılmaz, F., Yavuz, H., & Denizli, A. (2020). **Electrochromatographic separation of hydrophobic amino acid enantiomers by molecularly imprinted capillary columns**. *Process Biochemistry*, 92, 69-77.
- 16- Şarkaya, K., Aşır, S., Göktürk, I., Ektirici, S., Yılmaz, F., Yavuz, H., & Denizli, A. (2020). **Separation of histidine enantiomers by capillary electrochromatography with molecularly imprinted monolithic columns**. *Separation Science Plus*, 3(6), 235-245.
- 17- Asir, S., Dimililer, K., Kirsal-Ever, Y., Özsöz, M., & Shama, N. A. (2019, October). **Electrochemical determination of potassium ferricyanide using artificial intelligence**. In *2019 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)* (pp. 1-4). IEEE.

- 18- Mubarak, A. S., Süleyman, A., & Mehmet, O. (2019, August). **Development of CNN Model for Prediction of CRISPR/Cas12 Guide RNA Activity**. In *International Conference on Theory and Application of Soft Computing, Computing with Words and Perceptions* (pp. 697-703). Springer, Cham.
- 19- Derazshamshir, A., Aşır, S., Göktürk, I., Ektirici, S., Yılmaz, F., & Denizli, A. **“Polymethacryoyl-L-phenylalanine [PMPA]-based Monolithic column for Capillary electrochromatography”**, *Journal of Chromatographic Science*, 57(8), 758-765., 2019.
- 20- Sarı, D., Derazshamshir, A., Aşır, S., Göktürk, I., Yılmaz, F., & Denizli, A. **“Separation of D,L-Ampicillin by Ligand Exchange-Micellar Electrokinetic Chromatography”**, *Biointerface Res. Appl. Chem.*, 9: 4522-4533, 2019.
- 21- S. Aşır, D. Sarı, A. Derazshamshir, F. Yılmaz, K. Şarkaya, A. Denizli **“Dopamine-imprinted Monolithic Column for Capillary Electrochromatography”**, *Electrophoresis*, 38(22-23): 3003-3012, 2017.
- 22- S. Aşır, C. Zanardi, R. Seeber, H. İcil **“A novel unsymmetrically substituted chiral amphiphilic perylene diimide: Synthesis, photophysical and electrochemical properties both in solution and solid state”**, *Journal of Photochemistry and Photobiology A: Chemistry*, 318: 104-113, 2016.
- 23- S. Aşır, A. Derazshamshir, F. Yılmaz, A. Denizli **“Triazine Herbicide Imprinted Monolithic Column for Capillary Electrochromatography”**, *Electrophoresis*, 36: 2888-2895, 2015.
- 24- D. Özdal, S.Aşır, J. B. Bodapati, H. İcil **“Synthesis of a novel fluorescent amphiphilic chitosan biopolymer: photophysical and electrochemical behavior”**, *Photochemical & Photobiological Sciences*, 12: 1927-1938, 2013.
- 25- S.Aşır, Ayhan S. Demir, H. İcil **“The synthesis of novel, unsymmetrically substituted, chiral naphthalene and perylene diimides: Photophysical, electrochemical, chiroptical and intramolecular charge transfer properties”**, *Dyes and Pigments*, 84: 1-13, 2009.
- 26- S. Aşır, L. Uzun, D. Türkmen, R. Say and A. Denizli, **“Ion-selective imprinted superporous monolith for cadmium removal from human plasma”**, *Separation Science and Technology*, 40:3167-3185, 2005.

7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler

- 1- Türkmen, D., Bakhshpour, M., Akgönüllü, S., Aşır, S., & Denizli, A. (2022). **Heavy metal ions removal from wastewater using cryogels: a review**. *Frontiers in Sustainability*, 7.

7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

- 1- Shama, N. A., Asir, S., Dimililer, K., & Özsöz, M. (2020, October). **Potassium Ferro cyanide electrochemically detected by Differential Pulse and Square Wave Voltammetry in a Competition using Gradient Boosting as Machine Learning Algorithm**. In *2020 4th International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)* (pp. 1-4). IEEE.
- 2- Asir, S., Dimililer, K., Kirsal-Ever, Y., Özsöz, M., & Shama, N. A. (2019, October). **Electrochemical determination of potassium ferricyanide using artificial intelligence**. In *2019 3rd International Symposium on Multidisciplinary Studies and Innovative Technologies (ISMSIT)* (pp. 1-4). IEEE.
- 3- Mubarak, A. S., Süleyman, A., & Mehmet, O. (2019, August). **Development of CNN Model for Prediction of CRISPR/Cas12 Guide RNA Activity**. In *International Conference on Theory and Application of Soft Computing, Computing with Words and Perceptions* (pp. 697-703). Springer, Cham.

7.4. Yazılan ulusal/uluslararası kitaplar veya kitaplarda bölümler

- 1- Asir, S., Bakhshpour, M., Unal, S., & Denizli, A. (2022). **Nanoparticle-based plasmonic devices for bacteria and virus recognition**. In *Modern Practical Healthcare Issues in Biomedical Instrumentation* (pp. 167-183). Academic Press.

7.5. Ulusal hakemli dergilerde yayınlanan makaleler

- 1- Zidan, A., & Süleyman, A. Ş. I. R. (2023). **Programmable living nanorobots**. Hacettepe Journal of Biology and Chemistry, 51(2), 183-190.
- 2- A. A. Topçu, S. Aşır, D. Türkmen "DNA Purification by Solid Phase Extraction (SPE) Methods", *Hacettepe Journal of Biology and Chemistry*, 44(3): 259-266, 2016.

8. Sanat ve Tasarım Etkinlikleri

9. Projeler

- 1- 2017-2019, NEU - BAP, "Preparation of Molecularly Imprinted Biosensors for Helicobacter Pylori Detection", Proje Yürütücüsü
Yakın Doğu Üniversitesi adına 20 yıllığına patentlenmiştir.
- 2- 2016-2018, NEU - Centre of Excellence, "Preparation of Molecularly Imprinted Biosensors for Salmonella Detection", Proje Yürütücüsü
- 3- 2010-2013, TUBITAK, TBAG-110T201 "Dye Sensitized Solar Cells", Turkey, Scientific Researcher
- 4- "Preparation of a Novel Sustainable Water Filter for Heavy Metal Removal from Water and Detailed Analysis of Pb (II) Adsorption on Snail (Helix pomatia) Shell Adsorbents"
Suleyman Asir, Ruofan Lily Chen, Yigitcan Yılmaz
The International Sustainable World (Energy, Engineering, and Environment) Project: Team awarded a "BRONZE MEDAL", Harmony Public Schools, Houston, TX, USA, May 2013. (<http://isweeep.org/>)
- 5- "Development of a Low-Cost Sustainable Water Filter: Removal of Water Pollutants Cu (II) and Pb (II) Using Snail (Helix pomatia) Shells "
Suleyman Asir, Ruofan Lily Chen, Yigitcan Yılmaz
International Concept Project Competition (ICPC), Junior Green Brain of the Year Contest: This team awarded a "SPECIAL RECOGNITION", METU-NCC, North Cyprus, September 2012. (<http://greenbrain.ncc.metu.edu.tr>)
- 6- "Red Glowing TRNC Flag on the Pentadaktylos Mountain"
Huriye Icil, Duygu Uzun, Suleyman Asir, Jagadeesh B. Bodapati, Hurmus Refiker, Ilke Yucekan.
International Chemical Products and Raw Materials Industry R & D Project Market: Rated the BEST in the `paints and Adhesives` category and won the `BEST OVERALL AWARDS` in all categories, Istanbul Turkey, September 2012. (<http://www.kimyaargeprojepazari.com/>)
- 7- 2005-2006, DPT-YUUP "Synthetic Technology of Chiral Drug Materials within Health Biotechnology", Turkey, Scientific Researcher

10. İdari Görevler

2016-Halen	YAKIN DOĞU ÜNİVERSİTESİ Mühendislik Fakültesi (Malzeme Bilimi ve Nanoteknoloji Mühendisliği Bölüm Başkan Vekili)
2019-Halen	YAKIN DOĞU ÜNİVERSİTESİ Mühendislik Fakültesi (Dekan Yardımcısı)
2022-Halen	YAKIN DOĞU ÜNİVERSİTESİ Mühendislik Fakültesi (Biyomedikal Mühendisliği Bölüm Başkanı ve Biyomühendislik Bölüm Başkan Vekili)
2023-Halen	YAKIN DOĞU ÜNİVERSİTESİ Bilim, Teknoloji, Mühendislik Uygulama ve Araştırma Merkezi (Merkez Başkan Yardımcısı)

11. Bilimsel ve Mesleki Kuruluşlara Üyelikler

- 1- Kıbrıs Türk Bilim ve Teknoloji Derneği (BİLTED), 2011, kurucu asbaşkan ve halen dernek asbaşkanı
- 2- European Photochemistry Association - EPA, üye

12. Ödüller

- 1- 2021, Yakın Doğu Üniversitesi - DESAM, Yayın Ödülü
- 2- 2019, Yakın Doğu Üniversitesi - DESAM, Yayın Ödülü
- 3- 2016, Yakın Doğu Üniversitesi - DESAM, Genç Araştırmacı Ödülü
- 4- 2010-2011, Avrupa Komisyonu, Kıbrıs Türk Toplum Burs Programı 2010/11 Akademik Yılı
- 5- 2002-2004, KKTC Milli Eğitim ve Kültür Bakanlığı Kimya Eğitimi Yüksek Lisans Bursu
- 6- 1997-2002, KKTC Milli Eğitim ve Kültür Bakanlığı Lisans Eğitim Bursu

13. Son İki Yılda Verilen Lisans ve Lisansüstü Dersler

Akademik Yıl	Dönem	Dersin Adı	Haftalık Saati		Öğrenci Sayısı
			Teorik	Uygulama	
2021 - 2022	GÜZ	MED101 – ORGANIC CHEMISTRY	4	-	200
	GÜZ	TFT 101 – ORGANİK KİMYA	4	-	150
	GÜZ	MSN 309 - RESEARCH SKILLS IN SCIENCE	3	-	2
	GÜZ	PHA209 - ORGANIC CHEMISTRY II	2	-	170
	BAHAR	CHM122 - ORGANIC CHEMISTRY I	3	-	163
	BAHAR	CHM503 - ADVANCED ORGANIC CHEMISTRY	3	-	8
	BAHAR	KIM212 – ANALİTİK KİMYA	3	-	2
	BAHAR	MSN 206 - MATERIALS FOR BIOLOGICAL AND MEDICAL APPLICATIONS	3	-	1
2022 - 2023	GÜZ	MED101 – ORGANIC CHEMISTRY	4	-	200
	GÜZ	TFT 101 – ORGANİK KİMYA	4	-	150
	GÜZ	CHM123 - ORGANIC CHEMISTRY II	2	-	111
	GÜZ	KIM123 - ORGANİK KİMYA II	2	-	15
	GÜZ	MSN203 - FOUNDATIONS OF NANOTECHNOLOGY	3	-	1
	BAHAR	CHM122 - ORGANIC CHEMISTRY I	3	-	196
	BAHAR	KİM122 - ORGANİK KİMYA I	3	-	56
	BAHAR	CHM551 - SPECIAL TOPICS IN AFFINITY BASED SENSORS	3	-	9