

**ACADEMIC
CURRICULUM VITAE**

1. Name - Surname: Süleyman AŞIR

2. Title: Assoc. Prof. Dr.

3. Educational Background:

Degree	Department/Program	University	Year
Bachelor's	Chemistry	Hacettepe University	2002
Master's	Chemistry - Biochemistry	Hacettepe University	2004
PhD	Chemistry – Organic Chemistry	Eastern Mediterranean University	2009

4. Master's / PhD Thesis

4.1. Master's Thesis Title and Thesis Advisor(s): Preparation of Ion-Selective Imprinted Polymeric Monolith for Cadmium Detoxification from Human Plasma, Supervisor: Prof. Dr. Adil Denizli

4.2. PhD Thesis /Medical Specialty Thesis Title and Advisor(s): The Synthesis of Chiral Perylene and Naphthalene Diimides, Supervisor: Prof. Dr. Huriye Icil, Co-Supervisor: Prof. Dr. Ayhan S. Demir (from METU-Ankara)

5. Academic Titles:

Date of Assistant Professorship: 21/12/2015

Date of Associate Professorship: 11/04/2022

Date of Professorship: -

6. Supervised Master's and PhD Theses:

6.1. Master's Theses

1. Electrochemical Determination of Adriamycin- DNA Interaction Using Fe₃O₄ Nanoparticles Modified Carbon Paste Electrode, Minwer E'waysi Bseibes Alsarhan, 2020.
2. Effect of Iron Oxide Nanoparticles on the Prediction of Ferricyanide Concentration by Carbon Paste Electrode Using Machine Learning, Najya Maarof Saleem Saleem, 2021.
3. 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.
4. Electrochemical Determination of Dopamine in the Presence of Ascorbic Acid Using Machine Learning Technique, Chukwuebuka Ikpeama C, 2023.

6.2. PhD Theses

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

7. Publications

7.1. Articles Published in International Peer-Reviewed Journals (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 [PMAPA]-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. Articles Published in Other International Peer-Reviewed Journals

- 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. Papers Presented at International Scientific Conferences and Published in Conference Proceedings

- 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. National/international Books or Book Chapters

- 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. Articles Published in National Peer-Reviewed Journals

- 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. Art and Design Activities

9. Projects

- 1- 2017-2019, NEU - BAP, "Preparation of Molecularly Imprinted Biosensors for Helicobacter Pylori Detection", Project Manager
Patented on behalf of Near East University for 20 years.
- 2- 2016-2018, NEU - Centre of Excellence, "Preparation of Molecularly Imprinted Biosensors for Salmonella Detection", Project Manager
- 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 Yilmaz
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 Yilmaz
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. Administrative Responsibilities

2016-Present	NEAR EAST UNIVERSITY Faculty of Engineering (Deputy Chairman of Materials Science and Nanotechnology Engineering Department)
2019-Present	NEAR EAST UNIVERSITY Faculty of Engineering (Vice Dean)
2022-Present	NEAR EAST UNIVERSITY Faculty of Engineering (Chairman of Biomedical Engineering Department and Deputy Chairman of Bioengineering Department)
2023-Present	NEAR EAST UNIVERSITY Research Center for Science, Technology and Engineering (vice Chairman)

11. Memberships in Scientific and Professional Organizations

- 1- Cyprus Turkish Association of Science and Technology (BİLTED – Kıbrıs Türk Bilim ve Teknoloji Derneği), 2011, founding vice-president and 2011-Present, vice-president of the association
- 2- European Photochemistry Association - EPA, member

12. Awards

- 1- 2021, Near East University - DESAM, Publication Award
- 2- 2019, Near East University - DESAM, Publication Award
- 3- 2016, Near East University - DESAM, Young Researcher Award
- 4- 2010-2011, European Commission, Scholarships for the Turkish Cypriot Community Programme for the Academic Year 2010/11
- 5- 2002-2004, TRNC Ministry of National Education and Culture, Scholarship for Master of Science in Chemistry Education
- 6- 1997-2002, TRNC Ministry of National Education and Culture, Scholarship for Undergraduate Education

13. Undergraduate and Graduate Courses Taught in the Last Two Years

Academic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretical	Practical	
2021 - 2022	FALL	MED101 – ORGANIC CHEMISTRY	4	-	200
	FALL	TFT 101 – ORGANİK KİMYA	4	-	150
	FALL	MSN 309 - RESEARCH SKILLS IN SCIENCE	3	-	2
	FALL	PHA209 - ORGANIC CHEMISTRY II	2	-	170
	SPRING	CHM122 - ORGANIC CHEMISTRY I	3	-	163
	SPRING	CHM503 - ADVANCED ORGANIC CHEMISTRY	3	-	8
	SPRING	KİM212 – ANALİTİK KİMYA	3	-	2
	SPRING	MSN 206 - MATERIALS FOR BIOLOGICAL AND MEDICAL APPLICATIONS	3	-	1
2022 - 2023	FALL	MED101 – ORGANIC CHEMISTRY	4	-	200
	FALL	TFT 101 – ORGANİK KİMYA	4	-	150
	FALL	CHM123 - ORGANIC CHEMISTRY II	2	-	111
	FALL	KİM123 - ORGANİK KİMYA II	2	-	15
	FALL	MSN203 - FOUNDATIONS OF NANOTECHNOLOGY	3	-	1
	SPRING	CHM122 - ORGANIC CHEMISTRY I	3	-	196
	SPRING	KİM122 - ORGANİK KİMYA I	3	-	56
	SPRING	CHM551 - SPECIAL TOPICS IN AFFINITY BASED SENSORS	3	-	9