

Curriculum Vitae



Personal information

First name(s) / Surname(s) **Haslet Eksi-Kocak**
E-mail hasletkocak@aydin.edu.tr
hsleksi@gmail.com
Nationality Turkish
Date of birth 18.10.1980
Marital status Married

Desired employment / Occupational field

**Chemistry and Nanotechnology/Research and Development
Applied chemistry in industry, environmental and pharmaceutical**

Work experience

Dates	From August 2016- still continuing
Occupation or position held	Assistant Prof.
Name and address of employer	Faculty of Engineering, Department o Biomedical Engineering Istanbul Aydın University, Istanbul
Type of business or sector	Higher Education
Dates	From January 2014- August 2016
Occupation or position held	Post-doctoral Researcher
Main activities and responsibilities	Planning, management and tracking of development projects, reporting directly to the supervisor Support and maintenance of all the laboratory equipments including chemicals, instruments. Research and development of new materials
Name and address of employer	Faculty of Engineering, Department of Food Engineering Hacettepe University, Ankara
Type of business or sector	Higher Education
Dates	From September 2007 to September 2011
Occupation or position held	Project Assistant

Main activities and responsibilities Planning, management and tracking of development projects, reporting directly to the supervisor
Support and maintenance of all the laboratory equipments including chemicals, instruments.
Research and development of new materials

Name and address of employer Faculty of Science, Surface and Electroanalytical Chemistry Research Laboratory
Ankara University, Ankara

Type of business or sector Higher Education

Dates From March 2006 to December 2006

Occupation or position held Training and support specialist

Main activities and responsibilities Training the users about the software which is used by the Ministry of Justice in the various provinces of Turkey.

Name and address of employer Havelsan A.Ş, Ankara,

Type of business or sector Computer Software

Education and training

Dates From September 2007 to September 2011

Title of qualification awarded *Ph.D.* in Analytical Chemistry

Principal subjects/occupational skills covered Thesis Title: "Developing Nanoparticle-Tagged Biosensors"
Relevant courses taken: Electroanalytical Chemistry I-II, Surface modification and characterization, Atomic spectroscopy, Electrochemistry of metal complexes

Level in national or international classification PhD

Name and type of organisation providing education and training Ankara University, Faculty of Science
Department of Chemistry
Dogol Street, 06100
Tandogan, Ankara, Turkey

Dates From September 2003 to February 2006

Title of qualification awarded *M.Sc.* in Physical Chemistry

Principal subjects/occupational skills covered Thesis Title: " Investigation of swelling properties, fluconazole release behaviours and microbiological interactions of Poly(Acrylamide-co-itaconic acid) and Poly(Acrylic acid-co-itaconic acid) copolymeric hydrogels"
Relevant courses taken: Polymer Chemistry, Advanced Physical Chemistry, Biopolymers and Drug delivery systems

Level in national or international classification M.Sc.

Name and type of organisation providing education and training Gazi University, Faculty of Science
Department of Chemistry
06500, Teknikokullar, Ankara, Turkey

Dates From September 1997 to June 2003

Title of qualification awarded *B.Sc.* in Chemistry

Principal subjects/occupational skills covered Relevant courses taken: General Chemistry, Analytical Chemistry-qualitative and quantitative, Physical Chemistry, Biochemistry, Instrumental Analysis, Fundamentals of Organic Chemistry, Separation methods, Coordination Chemistry, Electrochemistry, Calculus, Physics

Level in national or international classification Chemist

Name and type of organisation providing education and training
Gazi University, Faculty of Science
Department of Chemistry
06500, Teknikokullar, Ankara, Turkey

Personal skills and competences

Mother tongue(s) **Turkish**

Other language(s) **English**

Social skills and competences
Experienced in both individual and team work
Good ability to adapt to multicultural environments
Good communication skills gained through my experiences
Effective communication to varied audiences, including formal public speaking(acquired during PhD studies)
Passion for learning new areas and subjects

Organisational skills and competences
Being an organization committee member in various national and international congresses.
8th International Electrochemistry Meeting in Turkey, 8-11 October 2009
The 13th National Spectroscopy Conference with International Participation, 18-22 May 2011

Technical skills and competences
Good knowledge in laboratory methods for chemical analysis.

Spectroscopic techniques: FT-IR spectroscopy(Bruker Tensor 27) with ATR and grazing angle accessories, FT-Raman Spectroscopy (Thermo Nicolet iS50), Surface-enhanced Raman spectroscopy (SERS) (DeltaNu), Near-Infrared Raman Spectroscopy (Thermo Nicolet iS50) and UV-Vis spectroscopy.

Electrochemical techniques: Gamry 300 and BAS 100 including impedance spectroscopy, voltammetric and stripping methods.

Synthesizing and characterizing nanoparticles.

Research areas:
Surface modification of carbon and metal surfaces with various molecules using diazonium salt reduction.
Surface characterization using electrochemical and spectroscopic techniques.
Fabrication of metallic and bimetallic nanoparticles and using them as chemical and biological sensors.

Computer skills and competences
Good command of Microsoft Office™ tools (Word, Excel, PowerPoint), ChemDraw and Origin
Data bases of Web of Science, Scopus, Science direct
Application of different instrument software packages

Other skills and competences
Hobbies: going to theatre and cinema
Sports : swimming

Driving licence
Turkish national driving licence "B"

Annexes

Papers published in journals:

- A1.** Ö. Özgenç, S. Durmaz, I. H. Boyacı, **H. Eksi-Kocak**, Determination of chemical changes in heat-treated wood using ATR-FTIR and FT Raman spectrometry *Spectrochim. Acta A*, 2017, 171, 395-400
- A2.** S. Varlıklioz Er, **H. Eksi-Kocak**, H. Yetim, I. H. Boyacı, Novel spectroscopic method for determination and quantification of saffron adulteration, *Food Analytical Methods*, 2016, DOI 10.1007/s12161-016-0710-4
- A3.** **H. Eksi-Kocak**, O. Menten-Yilmaz, I.H. Boyacı, Detection of green pea adulteration in pistachio nut granules by using Raman hyperspectral imaging, *Eur Food Res Technol*, 2016, DOI 10.1007/s00217-015-2538-3
- A4.** D.Rodoplu, İ.H. Boyacı, A.G. Bozkurt, **H. Eksi**, A. Zengin, U. Tamer, N. Aydogan, Ş. Ozcan, F. Tuğcu-Demiröz, Quantitative Characterization of Magnetic Mobility of Nanoparticle in Solution-Based Condition, *Current Pharmaceutical Design*, 2015, 21, 5389-5400
- A5.** S. Uluok, B. Güven, **H. Ekşi**, Z. Üstündağ, U. Tamer, İ.H. Boyacı, Designing multilayered nanoplatfoms for SERS-based detection of genetically modified organisms, *Journal of Nanoparticle Research* 2015, 17, 1-12
- A6.** **H. Ekşi**, R. Güzel, B. Güven, I. H. Boyacı, and A. O. Solak, Fabrication of an Electrochemical E. coli Biosensor in Biowells Using Bimetallic Nanoparticle-Labelled Antibodies, *Electroanalysis*, 2015, 27, 343 – 35
- A7.** S. Uluok, M.S. Erdoğan, A. Erkal, I. Aşık, G. Kuzu, **H. Ekşi**, Z. Üstündağ, Nanocharacterization of the Graphene Oxide Terminated Platform on Polycrystalline Gold Surface, *J. Comput. Theor. Nanosci.*, 2015, 12, 1–8
- A8.** R. Güzel, **H. Eksi**, E. Dinç, and A. O. Solak, New Voltammetric Approach to the Quantitative Estimation of Sildenafil Citrate in Tablets Using Disposable Pencil Graphite Electrode, *Sensor Lett.* 2014, 12, 1675-1681
- A9.** A. Erkal, M. S. Erdoğan, İ. Aşık, **H. Ekşi**, S. Jeon, A.O. Solak and Z. Üstündağ, Electrografting and Surface Properties of Some Substituted Nitrophenols on Glassy Carbon Electrode and Simultaneous Pb²⁺- Cd²⁺Analysis via Assist of Graphene Oxide Terminated Surface, *Journal of The Electrochemical Society* 2014, 161 (10) H696-H704
- A10.** R. Güzel, **H. Ekşi**, Z. Üstündağ, A.O. Solak, Synthesis, characterization, and application of silver nanoparticle- thiophenol nanocomposite film on the glassy carbon surface, *Surface and Interface Analysis* 2013, 45, 1821-1829
- A11.** **H. Ekşi**, V.K. Gupta, Z. Üstündağ, N. Atar, M.O. Çağlayan, A.O. Solak, Surface characterization of dinitrophenyl-diaminophenyl nanoplatfom on glassy carbon, *Journal of Molecular Liquids* 2013, 187, 49–53
- A12.** R. Güzel, **H. Ekşi**, E. Dinç and A. O. Solak, Determination of Acetaminophen in Commercial Formulations Using Silver Nanostructured Aniline Modified Pencil Graphite Electrode, *Journal of The Electrochemical Society* 2013, 160, B119-B124
- A13.** E. Dinç, D. Baleanu , A.O. Solak, **H. Ekşi**, R. Güzel, Factor Analysis for the Characterization of the Nano-Surface of the Nitroazobenzene-Modified Glassy Carbon Electrode, *J. Comput. Theor. Nanosci.*, 2012, 9, 319-326
- A14.** E. Dinç, D. Baleanu, A.O. Solak, **H. Ekşi**, R. Güzel, A New Approach to the Characterization of the Nano-Surface Structure by Using Factor Analysis, *Communications in Nonlinear Science and Numerical Simulation*, 2012, 17, 1012-1020
- A15.** A.A. İ.-Turan, E. Kılıç, Z. Üstündağ, **H. Ekşi**, A.O. Solak, B. Zorer, Syntheses and modifications of bisdiazonium salts of 3,8-benzo[c]cinnoline and 3,8-benzo[c]cinnoline 5-oxide onto glassy carbon electrode, and the characterization of the modified surfaces, *J Solid State Electrochem*, 2012, 16, 235-245

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Papers published in journals:

A16. A.A. İ.-Turan, Z. Üstündağ, **H. Ekşi**, R. Güzel, A.O. Solak, Spectroscopic and Electrochemical Characterization of Benzoylglycine Modified Glassy Carbon Electrode: Electrocatalytic Effect towards Dioxygen Reduction in Aqueous Media, *Spectroscopy Letters*, 2011, 44, 158-167.

A17. J.A. Tenreiro Machado, D. Baleanu, E. Dinç, A.O. Solak, **H. Ekşi**, R. Güzel, Characterization Approach to Modified Glassy Carbon Electrode Nanofilm System Within Multidimensional Scaling, *J. Comput. Theor. Nanosci.*, 2011, 8, 268-273

A18. R.R. Nigmatullin, I.I. Popov, D. Baleanu, E.Dinç, A.O. Solak, **H. Ekşi**, R. Güzel, Application of the linear principle for the strongly-correlated variables: Calculations of differences between spectra, *Communications in Nonlinear Science and Numerical Simulation*, 2011, 16, 4028-4036

A19. J.A. Tenreiro Machado, D. Baleanu, E. Dinç, A.O. Solak, **H. Ekşi**, R. Güzel, Analysis of the Nano-Surface of a Modified Glassy Carbon Electrode by Pseudo Phase Plane Method, *J. Comput. Theor. Nanosci.*, 2011, 8, 1986-1992.

A20. R. Güzel, Z. Üstündağ, **H. Ekşi**, S. Keskin, B. Taner, Z.G. Durgun, A.A. İ.-Turan, A.O. Solak, Effect of Au and Au@Ag core-shell nanoparticles on the SERS of bridging organic molecules, *Journal of Colloid and Interface Science*, 2010, 351, 35-42

A21. B. Taner, E. Özcan, Z. Üstündağ, S. Keskin, A.O. Solak, **H. Ekşi**, Fabrication of calix[4]pyrrole nanofilms at the glassy carbon surface and their characterization by spectroscopic, optic and electrochemical methods, *Thin Solid Films*, 2010, 519, 289–295

A22. R.R. Nigmatulin, A.P. Alekhin, D. Baleanu, E. Dinç, Z. Üstündağ, **H. Ekşi**, A.O. Solak, Analysis of the effect of potential cycles on the reflective infrared signals of nitro groups in nanofilms: Application of the fractional moments statistics, *Electroanalysis*, 2010, 22, 419-426

A23. M. Pulat, **H. Ekşi**, U. Abbasoglu, Fluconazole release from hydrogels including acrylamide-acrylic acid-itaconic acid, and their microbiological interactions, *J. Biomater. Sci. Polymer Edn*, 2008, 19, 193–205

A24. M. Pulat, **H. Ekşi**, Determination of swelling behavior and morphological properties of poly (acrylamide-co-itaconic acid) and poly (acrylic acid-co-itaconic acid) copolymeric hydrogels", *Journal of Applied Polymer Science*, 2006, 102, 5994-5999

Projects:

Synthesis And Characterization of Hydrogel-Coated Bimetallic Nanoparticles and Investigation of Application Areas, Ankara University Research Foundation, 09B4240012, Researcher, 2011

Fabrication of Electrochemical Biosensor for the Determination of E.Coli using Au@Ag and Ag@Au Bimetallic Nanoparticle Labelled Antibodies, The Scientific and Technological Research Council of Turkey-TBAG, 109T633, Researcher, 2011

Developing New Bread and Durum Wheat Varieties and Lines in Line with Industry, Consumer and Farmer's Needs, The Scientific and Technological Research Council of Turkey-TOVAG,113O119, Postdoctoral Researcher, 2014-2016