

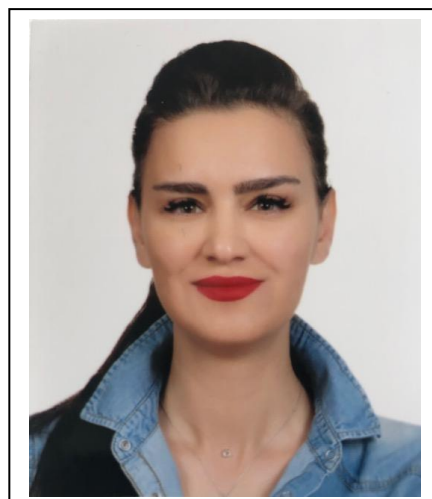
Assoc. Prof. İlknur TUNÇ

CURRICULUM VITAE

CURRENT STATUS AND ADDRESS:

Univesity of Turkish Association/ Turkkusu Campus
Mechanical Engineering Department, Etimesgut Ankara
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Education:

Degree	Department	Üniversity	Year
Bs	Chemistry (Top Std.)	İSTANBUL TECHNICAL ÜNİVERSİTY	1998- 2002
MSc	Chemistry (high honor)	İHSAN DOĞRAMACI BİLKENT ÜNİVERSİTY	2002- 30.06.2004
PhD	Chemistry (high honor)	İHSAN DOĞRAMACI BİLKENT ÜNİVERSİTY	2004- 14.05.2008

MSc Thesis :

Synthesis, Characterization and Thermal Degradation of Poly(L-Lactide)s/ Asist Prof. Soner Kılıç

PhD Thesis:

Spectroscopic characterization and charging/discharging properties of bimetallic and core-shell Au-Ag Nanoparticles/ Prof. Şefik Süzer

Experience:

Status	Affiliation	Year
Resc. Assit.	İHSAN DOĞRAMACI Bilkent University- Chem Dep.	2002-2008
Post Doc.	Applied Physical Chemistry Department/ Heidelberg University/Germany	2008-2009
Assit Prof.	Univesity of Turkish Association/Mechanical Engineering Dep.	2011- 2015
Assoc. Dr.	Univesity of Turkish Association/Mechanical Engineering Dep.	2015-currently

Research Interests:

Nanotechnology, Synthesis and Characterization of Nanoparticles, Spectroscopy, Photocatalytic Materials, Polymeric Materials, Biosensors

Projects :

- TÜBİTAK 1001- Preparation and Characterization of Bimetallic (Ag, Au, Pt, Pd) Nanoparticles for Catalytic and Antibacterial Applications/ Researcher/ 2007-2009
- TÜBİTAK 3501- Development of Metal Nanoparticle Based Optical Nanosensor for Determination of Cancer Antigen 125 (CA 125)/ Principle Investigator 2013-2015
- /Principle Investigator/ 2013-2015
- TÜBİTAK 1001- Strong Light-Material Interactions in Optical Microcavities Researcher / 2018-2020
- TÜBİTAK TEYDEP- BUYAN Self Healing Ballistic Coating – submitted

Memberships:

American Chemical Society (ACS 2014-2016)

Awards and Honors:

2013	TUBITAK Carrier Project Grant
2008-2009	TUBİTAK Post- Doctoral Fellowship
2004-2008	Full Ph. D Scholarship
2002-2004	Full M. Sc. Scholarship
2003	Best Teaching Assistant of the year
2002	Graduation as a top student award (ITU Chem Depart.)
2002	Graduation as a top two student award (ITU Sci Faculty.)

Lectures

- General Chemistry
- Calculus I
- Material Science and Engineering
- Material Science and Manufacturing
- Thermodynamics
- Polymer Science and Technology (Grad.)

Other Scientific Roles

- Editor in Turkish Journal Chemistry
- Panelist and Consultant for TÜBİTAK Project
- Panelist for Minister of Transport
- Reviewer for International Journals

Administrative Roles

- Chair of Scientific Research Project Office (2012-)
- Mechanical Engineering Department Administrative Committee (Founder member 2011-)
- Engineering Faculty Administrative Committee (2016-)
- I.International Aeronautics and Astronautics Conference (25-26 Eylül 2014) Organization Committee Coordinator
- [Institute of Science and Technology](#) Administrative Committee (2015-)

Journal Papers (SCI & SSCI & Arts and Humanities)

A1. I. Tunc, S. Suzer, M. A. Correa-Duarte, L. M. Liz-Marzán,, "XPS Characterization of Au (Core)/SiO₂ (Shell) Nanoparticles", Journal of Physical Chemistry B, 109, 7597-7600, Mayıs-2005, DOI: 0.1021/jp050767j. **EF:2.92**

A2. I. Tunc, U. K. Demirok, S. Suzer, M.A. Correa-Duarte, L. M. Liz-Marzán, "Charging Discharging of Au (Core)/SiO₂ (Shell) Nanoparticles", Journal of Physical Chemistry B, 109, 24182-24185 pp., Kasım-2005, DOI: 10.1021/jp055614a. **EF:2.92**

A3. E. Ozkaraoglu, I. Tunc, S. Suzer, "X-Ray Induced Reduction of Au and Pt Ions on Silicon Substrates", Surface & Coatings Technology, 201, 8202-8204 pp., Ağustos-2007, DOI: doi:10.1016/j.surfcoat.2006.07.264. **EF:3.19**

A4. I. Tunc, H. O. Guvenc, H. Sezen, S. Suzer, M. A. Correa-Duarte, L. M. Liz-Marzán, "Optical Response of Ag-Au Bimetallic Nanoparticles to Electron Storage in Aqueous Medium", Journal of Nanoscience and Nanotechnology, 8, 3003-3009, Eylül-2008, DOI: 10.1166/jnn.2008.157. **EF:1.35**

A5. E. Ozkaraoglu, I. Tunc, S. Suzer, "Preparation of Au and Au–Pt Nanoparticles within PMMA Matrix Using UV and X-Ray Irradiation", Polymer, 50, 462-466, Ocak-2009, DOI: 10.1016/j.polymer.2008.12.008. **EF:3.48**

A6. I. Tunc, P. Koelsch, H. Gliemann, M. Bruns, M. Grunze, "Band Gap Determination and Charge Separation in Ag@TiO₂ Core-Shell Nanoparticle films", Surface and Interface Analysis, 42, 835-841, Nisan-2010, DOI: 10.1002/sia.3558. **EF:1.39**

A7. S. Ayas, G. Cinar, A. D. Ozkan, Z. Soran, O. O. Ekiz, D. Kocaay, A. Tomak, P. Toren, Y. Kaya, I. Tunc, H. Zareie, T. Tekinay, A. B. Tekinay, M. Ozgur Guler, A. Dana, "Label-Free Nanometer-Resolution Imaging of Biological Architectures through Surface Enhanced Raman Scattering", Scientific Reports, 3, 1-8, Eylül-2013, DOI: 10.1038/srep02624. **EF:4.12**

A8. I. Tunc, H. Sezen, H. Osman Guvenc, S. Suzer, "Charge storage and release onto Au and Ag nanoparticles in aqueous medium as probed by optical spectroscopy", 4: 1-6, 2014., Journal of Spectroscopy and Dynamics, "4", 1-4 pp., Nisan-2013. **EF:x**

A9. I. Tunc, "The effect of the presence of Ag nanoparticles on the photocatalytic degradation of oxalic acid adsorbed on TiO₂ nanoparticles monitored by ATR-FTIR", Material Chemistry and Physics, 144, 444-450, Nisan-2014, DOI: 10.1016/j.matchemphys.2014.01.018. **EF:2.78**

A10. I. Tunc, "10. İlknur Tunc, "Investigation on the Photocatalytic Efficiency of Ag@TiO₂ core-shell Nanoparticle Films", Nano Communications, 1, 1-6, Aralık-2013, DOI: doi:10.1166/nano.2013.1011 **EF:x**

A11. P. Toren, T. Tekinay, S. Ayas, A. Dana, I. Tunc, "Surface Enhanced Raman Spectroscopy (SERS) on Ag Nanoparticle Loaded Unilamellar Liposomes, Journal of Nanoscience and Nanotechnology, 17, 8894–8900, Aralık 2017. **EF:1.35**

A12. I Tunc, H. H. Susapto, M. O Guler, "Functional Gold Nanoparticle Coated Surfaces for CA 125 Cancer Biomarker Detection" Turkish Journal of Chemistry 39, 697-713, 2015. **EF:1.17**

A13. I Tunc, H. H. Susapto, Surface Enhanced Raman Scattering (SERS) based Label Free Detection of Cancer Antigen CA 125, Journal of Nanoscience and Nanotechnology 20, 1358–1365, 2020. **EF:1.35**

A14. O. Yakar, O. Balci, B. Uzlu, S. Sarisozen, O. Ari, I. Tunc, C. Kocabas, S. Balci, Hybrid J-Aggregate–Graphene Phototransistor, ACS Applied Nanomaterials, 3(1), 409-417, 2020 **EF~7.5-10**

A15. M.Özkan, E. Seyed Hadi, I.Tunc, Y. Midilli, B. Ortac, D. Tuncel, Cucurbit7 uril Hybrid Conjugated Oligomer-Gold Nanoparticles for Synergistic Photodynamic-Photothermal Therapy and Cellular Imaging, ACS- Applied Polymer Science, xx,xxx, Tem 2020. **EF~10**

International Conference Proceedings

B1. I. Tunc, P. Koelsch, H. Gliemann, M. Bruns, M. Grunze, 13.th European Conference on Applications of Surface and Interface Analysis (ECASIA 09) konferansı dahilinde, "ECASIA 09 Book of Abstracts", bildiri kitapçığındaki "Investigation of Photocatalytic Behaviour of Ag@TiO₂ Core-Shell Nanoparticle Films", 162-162 pp.,Antalya, Türkiye, 18-23 Ekim, 2009

B2. I. Tunc, S. Suzer, 12.th European Conference on Applications of Surface and Interface Analysis (ECASIA 07) konferansı dahilinde, "ECASIA 07 Book of Abstracts", bildiri kitapçığındaki "Characterization and Charging Properties of Metal(core)@Dielectric(shell) Nanoparticles", 141-141 pp.,Brüksel, Belçika, 9-14 Eylül , 2007

B3. E. Ozkaraoglu, I. Tunc, S. Suzer, 12.th European Conference on Applications of Surface and Interface Analysis (ECASIA 07) konferansı dahilinde, "ECASIA 07 Book of Abstracts", bildiri kitapçığındaki "UV and X-Ray Induced Production of Au and Pt Mono/Bimetallic Nanoparticles within Polymer Films", 173-173 pp.,Brüksel, Belçika, 9-14 Eylül, 2007

B4. I. Tunc, U. K. Demirok, S. Suzer, M. A. Correa-Duarte, L. M. Liz- Marzán, 11 th. European Conference on Applications of Surface and Interface Analysis (ECASIA 05) konferansı dahilinde, "ECASIA 05 Book of Abstracts", bildiri kitapçığındaki "XPS Characterization of Au(core)@SiO₂(shell) and SiO₂(core)@Ag(shell) Nanoparticles", 94-94 pp.,Viyana, Avusturya, 25-30 Eylül , 2005

B5. I Tunc, H. O. Guvenc, H. Sezen, S. Suzer, Chemical Physics Conference VIII konferansı dahilinde, "Book of Abstracts", bildiri kitapçığındaki "Assessing the Electronstorage Capacity of Bimetallic Au-Ag Nanoparticles", 3-3 pp.,İstanbul, Türkiye, 24-25 Nisan, 2008

B6. C. Pınar Conger, I. Tunc, S. Süzer, Chemical Physics Conference VIII konferansı dahilinde, "Book of Abstracts", bildiri kitapçığındaki "Coating Glass Surfaces with Metallic Nanoparticles", 19-19 pp.,İstanbul, Türkiye, 24-25 Nisan , 2008

B7. I. Tunc, H. Heri Susapto, A. Abdelal, A. Dana, Mustafa O. Guler, ACS Meeting 248th ACS National Meeting & Exposition konferansı dahilinde "Abstract of Papers of American Chemical Society" bildiri kitapçığındaki "Colormetric LSPR Nanosensor for Detecting Cancer Antigen CA 125", 10-14 Ağustos 2014.

B8. H. H. Susapto, A. Abdelal, A. Dana, M. O. Guler, I. Tunc, Nanodays 2015 Colormetric LSPR Nanosensor for Detecting Cancer Antigen CA 125", Mayıs 2015.

National Conference Proceedings

C1. I. Tunc, S. Suzer, X. Ulusal Spektroskopi Kongresi konferansı dahilinde , "Bildiri Özetleri", bildiri kitapçığındaki "Metal(çekirdek)@Dielektrik(kabuk) (core-shell) Nanoparçacıklarının Karakterizasyonu ve Yüklenme Özelliklerinin İncelenmesi", 136-136 pp.,İzmir, Türkiye, 4-7 Temmuz, 2007

C2. E. Ozkaraoglu, I. Tunc, S. Suzer, 10. Ulusal Spektroskopi Kongresi konferansı dahilinde , "Bildiri Özetleri", bildiri kitapçığındaki "Altın Nanoparçacıklarının UV ve/veya X-ışınları ile Sentezi ve Spektroskopik Karekterizasyonu", 6-6 pp.,İzmir, Türkiye, 4-7 Temmuz, 2007

C3 C. P. Cönger, I. Tunc, S. Suzer, 10. Ulusal Spektroskopi Kongresi konferansı dahilinde , "Bildiri Özetleri", bildiri kitapçığındaki "Tabaka Tabaka Kaplama Tekniği ile (Metal)Nanoparçacık/Polielektrolit Çiftlerinin Hazırlanması", 137-137 pp.,İzmir, Türkiye, 4-7 temmuz, 2007.

C4 I. Tunc, H. O. Guvenc, H. Sezen, S. Suzer, 10. Ulusal Spektroskopi Kongresi konferansı dahilinde , "Bildiri Özetleri", bildiri kitapçığındaki "Sulu Ortamda Au-Ag Bimetalik Nanoparçacıkların Elektron Depolamalarının Optik Gözlemlenmesi", 135-135 pp.,İzmir, Türkiye, 4-7 Temmuz, 2007.

C5. E. Ozkaraoglu, I. Tunc, S. Suzer, NanoTr-III, Nanoscience and Nanotechnology Conferences konferansı dahilinde , "NanoTR III Proceedings", bildiri kitapçığındaki "UV Induced Formation of Gold Nanoparticles within Polymer Films", 158-158 pp.,Bilkent, Ankara, 11-14 Haziran , 20070

C6. I. Tunc, S. Suzer, NanoTr-III, Nanoscience and Nanotechnology Conferences konferansı dahilinde "Nano TR III Proceedings", bildiri kitapçığındaki "Characterization and Charging Properties of Metal(core)@Dielectric(shell) Nanoparticles", 9-9 pp.,Bilkent, Ankara, 11-14 Haziran, 2007

C7. C. P. Cönger, I. Tunc, S. Suzer, NanoTr-III, Nanoscience and Nanotechnology Conferences konferansı dahilinde , "Nano TR III Proceedings", bildiri kitapçığındaki "Coating Glass Surfaces with Metallic Nanoparticles Using Layer-by-Layer Deposition", 150-150 pp.,Bilkent, Ankara, 11-14 Haziran, 2007

C8. I.Tunc, U. K. Demirok, S. Suzer, M. A. Correa-Duarte, L. M. Liz-Marzán, 9. Ulusal Spektroskopi Kongresi konferansı dahilinde , "Bildiri Özetleri ", bildiri kitapçığındaki "Characterization and Charging/Discharging of Core-Shell Nanoparticles as Obtained by XPS with External Bias", 69-69 pp.,Bilkent Ankara, 9-11 Haziran, 2005

C9. E. Ozkaraoglu, I. Tunc, S. Suzer, 9. Ulusal Spektroskopi Kongresi konferansı dahilinde , "Bildiri Özetleri", bildiri kitapçığındaki "Preparation of Au, Pt Metallic and Au-Pt Bimetallic Nanoparticles using UV Radiation and Characterization by UV-Vis Spectroscopy and XPS", 89-89 pp.,Bilkent, Ankara, 9-11 Haziran, 2005

Books:

I Tunc, Charging Properties of Metal@Dielektrik Core-Shell Nanoparticles, LAP Lambert Academic Publishing, International Book Market Service, Ltd. Member of Omniscryptum Pub. Grp. Mauritius, ISBN:978-620-2-67797-4, 2020.

Citations

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