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Personal Information

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Education Information

Doctorate, Rheinisch-Westfaelische Technische Hochschule Aachen, Institute of Organic Chemistry, Germany 2003 - 2007

Post Graduate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Kimya (YI) (Tezli), Turkey 2002 - 2002

Under Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 1998 - 2002

Dissertations

Doctorate, The Synthesis of N-Substituted Ferrocenes and C-H Activation Towards the Synthesis of Organosilanols, Rheinisch-Westfaelische Technische Hochschule Aachen, Organik Kimya Enstitüsü, 2007

Post Graduate, Assymetric synthesis of chiral bidentate ligands, Middle East Technical University, Graduate School of Natural and Applied Sciences, Kimya (YI) (Tezli), 2002

Research Areas

Chemistry, Amino Acids, Bioorganic Chemistry, Protein Chemistry, Organic Chemistry, Chemistry of Macromolecules, Chemistry of Artificial Enzymes, Natural Sciences

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2019 - Continues

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 2011 - 2018

Professional Experience

Deputy Head of Department, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Chemistry, 2018 - Continues

Advising Theses

AKKAYA M., ÖZÇUBUKÇU S., Bacterial expression of an effector protein of yellow rust pathogen and a resistance protein of wheat and characterization of the effector protein, Doctorate, S.MAHMUT(Student), 2019

ÖZÇUBUKÇU S., Synthesis of anthracene-based macrocycle for detection of explosives, Post Graduate, T.YILMAZ(Student), 2019

GÜNBAŞ E. G. , ÖZÇUBUKÇU S., Synthesis of dioxin & tetra aryl pyrazine derivatives and their applications, Post Graduate, B.OKYAR(Student), 2019

ÖZÇUBUKÇU S., Synthesis of tridentate ligands based on theoretical design to mimic HPCD enzyme, Post Graduate, M.Gökçe(Student), 2018

ÖZÇUBUKÇU S., Synthesis of tridentate ligands based on theoretical design to mimic HPCD enzyme, Post Graduate, M.GÖKÇE(Student), 2018

ÖZÇUBUKÇU S., Peptide-based drug systems /, Doctorate, M.PARLAK(Student), 2017

ÖZÇUBUKÇU S., ÖZEN C., Anticancer activity of chlorpromazine on U266 multiple myeloma cell line, Post Graduate, A.EZGİ(Student), 2017

ÖZÇUBUKÇU S., ÖZEN C., Synthesis of chlorotoxin and its derivatives as enzyme inhibitors, Post Graduate, M.SEÇKİN(Student), 2017

ÖZÇUBUKÇU S., Synthesis of paracyclophane-peptide based semiconductive peptide hydrogels, Post Graduate, V.DOLGUN(Student), 2017

ÖZÇUBUKÇU S., Heparin coated and 2-deoxy-d-glucose conjugated iron oxide nanoparticles for biologic applications /, Doctorate, Y.Akpınar(Student), 2017

ÖZÇUBUKÇU S., SON Ç. D. , Optimization of internal tagging of inhibitory G-proteins for investigating their interactions with dopamine receptor D2 via fret method, Post Graduate, G.ÖZCAN(Student), 2016

ÖZÇUBUKÇU S., TİNCER İ. T. , Interior marking into oxo-biodegradable polyethylene shopping bags to assess the presence of pro-oxidant additive by using ATR-FTIR technique, Post Graduate, Y.DURMUŞ(Student), 2016

ÖZEN C., ÖZÇUBUKÇU S., Nortriptyline, a tricyclic antidepressant, induces apoptosis in U266 multiple myeloma cell line /, Post Graduate, A.Biber(Student), 2016

ÖZÇUBUKÇU S., Enzyme catalyzed cross acyloin reactions via C-C bond cleavage, Post Graduate, G.BİLİR(Student), 2015

ÖZÇUBUKÇU S., TİNCER İ. T. , Preparation of crosslinkable high density polyethylene and polypropylene polyblends, Post Graduate, B.KOLTUKSUZ(Student), 2015

ÖZÇUBUKÇU S., SON Ç. D. , Asymmetric synthesis of beta-hydroxy phosphonates via benzaldehyde lyase catalyzed cross acyloin reactions, Post Graduate, C.Kazancı(Student), 2014

ÖZÇUBUKÇU S., THE PREPARATION OF AZIDO AMINO ACIDS AND THE APPLICATION OF NATIVE CHEMICAL LIGATION IN THE SYNTHESIS OF CHLOROTOXIN, Post Graduate, U.ORAL(Student), 2014

ÖZÇUBUKÇU S., ÖZEN C., Synthesis of peptide inhibitors for matrix metalloproteinase-2 and angiotensin converting enzyme /, Post Graduate, B.ÇİFÇİ(Student), 2014

ÖZÇUBUKÇU S., Synthesis of metal binding artificial amino acids, Post Graduate, G.EŞAN(Student), 2014

ÖZÇUBUKÇU S., Light triggered self-assembly and hydrogelation of azobenzene bearing peptides and investigation of their nanostructures, Post Graduate, M.TEZCAN(Student), 2013

Jury Memberships

Competition, TÜBİTAK Ortaöğretim Öğrencileri Araştırma Projeleri Yarışması , TÜBİTAK, May, 2013

Designed Lessons

Özçubukçu S., Chemistry in Popular Culture, Under Graduate, 2012 - 2013

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **The synthesis of peptide-conjugated poly(2-ethyl-2-oxazoline)-b-poly(L-lactide) (PEtOx-b-PLA) polymeric systems through the combination of controlled polymerization techniques and click reactions**
Ozkose U. U. , Gulyuz S., Parlak Khalily M., ÖZÇUBUKÇU S., BOZKIR A., TAŞDELEN M. A. , Alptürk O., Yilmaz O.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, is.17, 2021 (Journal Indexed in SCI)
- II. **Synthesis, biocompatibility and gene encapsulation of poly(2-Ethyl 2-Oxazoline)-dioleoyl phosphatidylethanolamine (PEtOx-DOPE) and post-modifications with peptides and fluorescent dye coumarin**
Gulyuz S., Bayram D., Ozkose U. U. , Bolat Z. B. , Kocak P., SAKA O. M. , DEVRİM B., Khalily M. P. , TELÇİ D., ŞAHİN F., et al.
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, 2020 (Journal Indexed in SCI)
- III. **Simple Tyrosine Derivatives Act as Low Molecular Weight Organogelators**
Aykent G., Zeytun C., Marion A., Ozcubukcu S.
SCIENTIFIC REPORTS, vol.9, 2019 (Journal Indexed in SCI)
- IV. **Structure-based design, synthesis and anticancer effect of cyclic Smac-polyarginine peptides**
Khalily M. P. , GEREKÇİ S., Gulec E. A. , ÖZEN C., ÖZÇUBUKÇU S.
AMINO ACIDS, vol.50, is.11, pp.1607-1616, 2018 (Journal Indexed in SCI)
- V. **Osteoconductive layer-by-layer films of Poly(4-hydroxy-L-proline ester) (PHPE) and Tannic acid**
Onat B., Özçubukçu S., Banerjee S., Erel-Goktepe I.
EUROPEAN POLYMER JOURNAL, vol.103, pp.101-115, 2018 (Journal Indexed in SCI)
- VI. **The design and synthesis of a photo-controlled, peptide-based potential drug carrier**
Parlak Khalily M., ÖZÇUBUKÇU S.
TURKISH JOURNAL OF CHEMISTRY, vol.42, is.4, pp.1136-1145, 2018 (Journal Indexed in SCI)
- VII. **Polymerization and biosensor application of water soluble peptide-SNS type monomer conjugates**
SÖYLEMEZ S., YILMAZ T., BÜBER E., Udum Y. A. , ÖZÇUBUKÇU S., Toppare L.
JOURNAL OF MATERIALS CHEMISTRY B, vol.5, is.35, pp.7384-7392, 2017 (Journal Indexed in SCI)
- VIII. **Comparative cell adhesion properties of cysteine extended peptide architectures**
SÖYLEMEZ S., Demir B., Eyrilmez G. O. , Kesici S., SAYLAM A., Demirkol D. O. , ÖZÇUBUKÇU S., TİMUR S., Toppare L.
RSC ADVANCES, vol.6, is.4, pp.2695-2702, 2016 (Journal Indexed in SCI)
- IX. **SYNTHESIS AND APPLICATION OF RGD-BASED BIOSENSOR AND BIOIMAGING MATERIALS**
PARLAK M., ÖZÇUBUKÇU S.
JOURNAL OF PEPTIDE SCIENCE, vol.20, 2014 (Journal Indexed in SCI)
- X. **SYNTHESIS AND CHARACTERIZATION OF CONDUCTIVE PEPTIDE NANOSTRUCTURES: A BIOCHEMICAL APPROACH TO 1-D MOLECULAR WIRE**
AYKENT G., ÖZÇUBUKÇU S.
JOURNAL OF PEPTIDE SCIENCE, vol.20, 2014 (Journal Indexed in SCI)
- XI. **A protein engineered to bind uranyl selectively and with femtomolar affinity**
Zhou L., Bosscher M., Zhang C., Ozcubukcu S., Zhang L., Zhang W., Li C. J. , Liu J., Jensen M. P. , Lai L., et al.
NATURE CHEMISTRY, vol.6, is.3, pp.236-241, 2014 (Journal Indexed in SCI)
- XII. **Planar-Chiral Bis-silanols and Diols as H-Bonding Asymmetric Organocatalysts**
BEEMELMANN S., HUSMANN R., Whelligan D. K. , Ozcubukcu S., BOLM C.
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, is.18, pp.3373-3376, 2012 (Journal Indexed in SCI)
- XIII. **Covalently immobilized tris(triazolyl) methanol-Cu(I) complexes: highly active and recyclable catalysts for CuAAC reactions**
ÖZKAL E., Ozcubukcu S., JIMENO C., Pericas M. A.
CATALYSIS SCIENCE & TECHNOLOGY, vol.2, is.1, pp.195-200, 2012 (Journal Indexed in SCI)
- XIV. **Selective Recognition of Americium by Peptide-Based Reagents**
Ozcubukcu S., Mandal K., Wegner S., Jensen M. P. , He C.
INORGANIC CHEMISTRY, vol.50, is.17, pp.7937-7939, 2011 (Journal Indexed in SCI)

- XV. **A Highly Active Catalyst for Huisgen 1,3-Dipolar Cycloadditions Based on the Tris(triazolyl)methanol-Cu(I) Structure**
Ozcubukcu S., ÖZKAL E., JIMENO C., Pericas M. A.
ORGANIC LETTERS, vol.11, is.20, pp.4680-4683, 2009 (Journal Indexed in SCI)
- XVI. **A general and efficient synthesis of nitrogen-substituted ferrocenes**
Ozcubukcu S., Schmitt E., Leifert A., Bolm C.
SYNTHESIS-STUTTGART, is.3, pp.389-392, 2007 (Journal Indexed in SCI)
- XVII. **Organosilanols as Catalysts in Asymmetric Aryl Transfer Reactions**
ÖZÇUBUKÇU S., SCHMİDT f., BOLM C.
Organic Letters, vol.7, pp.1407-1409, 2005 (Journal Indexed in SCI)
- XVIII. **The first enantioselective synthesis of chiral norbornane-type 1,4-diamine ligand**
TANYELİ C., ÖZÇUBUKÇU S.
Tetrahedron Asymmetry, vol.14, is.9, pp.1167-1170, 2003 (Journal Indexed in SCI)
- XIX. **A novel asymmetric synthesis of highly enantiomerically enriched norbornane-type diamine derivatives**
BOLM C., SCHİFFERS I., ATODİRESEİ I., Ozcubukcu S., RAABE G.
NEW JOURNAL OF CHEMISTRY, vol.27, is.1, pp.14-17, 2003 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Enzyme Catalyzed Trans-Benzoin Condensation**
BİLİR G., AYHAN SITKI D., ÖZÇUBUKÇU S.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, pp.737-750, 2018 (Other Refereed National Journals)
- II. **Synthesis of Chlorotoxin by Native Chemical Ligation**
KARACA U., ÖZÇUBUKÇU S.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, pp.719-726, 2018 (Other Refereed National Journals)
- III. **Optimization of synthetic route to PNA-T-OH monomers**
ALPTÜRK O., YEŞİLBAŞ S., SARIOĞLU G., KARAÇAYLI A., SAYLAM A., ÖZÇUBUKÇU S.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.5, pp.457-468, 2018 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

- I. **L-Tyr(tBu)-OH: An Outstanding Low Molecular Weight Organogelator**
AYKENT G., ZEYTUN C., Marion A., ÖZÇUBUKÇU S.
4th Organic Chemistry Congress with Int. Participation, 4 - 07 October 2018
- II. **In vivo bioluminescent imaging of cancer cells by using a bio-orthogonal ligation reaction**
Almammadov T., ÖZÇUBUKÇU S., Bağci-Onder T., Kolemen S.
256th National Meeting and Exposition of the American-Chemical-Society (ACS) - Nanoscience, Nanotechnology and Beyond, Massachusetts, United States Of America, 19 - 23 August 2018, vol.256
- III. **SmacN7-Oktaarjinin Peptit Konjugatlarının Yapısal Düzenlenmesi ve Bunun Hücresel Alinima Ve Sitotoksositeye Etkileri**
PARLAK M., GEREKÇİ S., GÜLEÇ E., ÖZEN C., ÖZÇUBUKÇU S.
29. Ulusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2017
- IV. **Kümeleşme İle Tetiklenmiş Emisyon Özelliğine Sahip Yeni Sistemlerin Sentezi**
OKYAR B., ÖZÇUBUKÇU S.
29. Ulusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2017

- V. **Development of Chlorotoxin Peptide-Based Matrix Metalloproteinase-2 Inhibitors**
KESİCİ M. S. , GEREKÇİ S., GÜLEÇ E., ÖZEN C., ÖZÇUBUKÇU S.
25. American Peptide Symposium, Whistler, Canada, 17 - 22 June 2017
- VI. **Cellular Uptake and Cytotoxicity of Engineered SmacN7-Octaarginine Peptide Conjugates**
PARLAK M., GEREKÇİ S., GÜLEÇ E., ÖZEN C., ÖZÇUBUKÇU S.
25. American Peptide Symposium, Whistler, Canada, 17 - 22 June 2017
- VII. **Osteoconductivity of layer-by-layer films of poly(4-hydroxy-L-proline) ester**
ONAT B., ÖZÇUBUKÇU S., BANERJEE S., EREL GÖKTEPE İ.
7th International Colloid Conference, 18 - 21 June 2017
- VIII. **Synthesis of paracyclophane peptide based semiconductive hydrogels**
DOLGUN V., ÖZÇUBUKÇU S.
The Anatolian Conference on Synthetic Organic Chemistry, 21 - 24 March 2016
- IX. **Synthesis and Characterization of Conductive Peptide Nanostructures**
AYKENT G., ÖZÇUBUKÇU S.
The Anatolian Conference on Synthetic Organic Chemistry, 21 - 24 March 2016
- X. **Peptide Hydrogels for Organic Electronics**
ÖZÇUBUKÇU S.
Turkey Symposium Series: Catalysis and Sensing for Health, 7 - 11 September 2015
- XI. **İletken Peptit Hidrojeller**
ÖZÇUBUKÇU S.
27. Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015
- XII. **Peptide Hydrogel for Organic Electronics**
ÖZÇUBUKÇU S., AYKENT G., DOLGUN V.
International Winterschool on Bioelectronics BioEl2015, 28 February - 07 March 2015
- XIII. **Peptit Bazlı İletken Hidrojeller**
AYKENT G., DOLGUN V., ÖZÇUBUKÇU S.
2. Ulusal Organik Kimya Kongresi, Turkey, 24 - 26 September 2014
- XIV. **Peptide Based Conductive Hydrogels**
AYKENT G., ÖZÇUBUKÇU S.
33rd European Peptide Symposium, 31 August - 05 September 2014
- XV. **Peptit Bazlı Uyarılara Tepki Veren ve İletken Hidrojeller**
ÖZÇUBUKÇU S.
26. Ulusal Kimya Kongresi, Turkey, 1 - 06 September 2012
- XVI. **Peptides for Actinide Separation**
ÖZÇUBUKÇU S., SERAPHINE W., KALYANESWAR M., STEPHEN K., HE C., MARC J.
239. American Chemical Society National Meeting, 21 - 25 March 2010

Supported Projects

ZORA M., DOĞAN Ö., AKDAĞ A., TÜRKYILMAZ S., KANOVA N., KORKMAZ E., YILMAZ E. S. , ÖZÇUBUKÇU S., TANYELİ C., GÜNBAŞ E. G. , Project Supported by Higher Education Institutions, Bazik koşullarda N-(5-arilpenta-2,4-diinil)-β-enaminon bileşiklerinin halkalaşma tepkimelerinin araştırılması, 2018 - 2019

ÖZÇUBUKÇU S., Project Supported by Higher Education Institutions, Azit fonksiyonel gruplu amino asit türevlerinin sentezi ve bunların BODIPY tipi moleküllerle birleştirilip metal koordinasyonunun incelenmesi, 2014 - 2019

GÜNBAŞ E. G. , DOĞAN Ö., AKDAĞ A., ÖZÇUBUKÇU S., TANYELİ C., ZORA M., Project Supported by Higher Education Institutions, ORGANİK ELEKTRONİK ALANI İÇİN YENİ BİR YAPITAŞININ TASARIMI VE SENTEZİ, 2017 - 2017

ÖZÇUBUKÇU S., Project Supported by Higher Education Institutions, KÜMELEŞME İLE TETİKLENMİŞ EMİSYON ÖZELLİĞİNE SAHİP YENİ SİSTEMLERİN SENTEZİ VE PEPTİTLERE BAĞLANMASI, 2017 - 2017

ÖZÇUBUKÇU S., Project Supported by Higher Education Institutions, BİYOSENSÖR UYGULAMALARI İÇİN EPİNDOLİDİON YARIİLETKENLERİNE PEPTİTLERİN BAĞLANMASI, 2017 - 2017

ÖZEN C., ÖZÇUBUKÇU S., Project Supported by Higher Education Institutions, Vm24 Akrep Zehir Peptidinin Sentezi ve İn Vitro Antikanser Etkisinin Belirlenmesi, 2016 - 2017

Özçubukçu S., TUBITAK Project, Klorotoksin Peptit Yapısına Dayalı Matriks Metalloproteinaz 2 İnhibitörlerinin Geliştirilmesi, 2015 - 2017

TUNCEL S., GÖKMEN A., ERTAŞ G., VOLKAN M., ÖZÇUBUKÇU S., TANYELİ C., GÖKMEN G. İ. , Project Supported by Higher Education Institutions, Solid faz mikro ayırma yönteminin çevre ve gıda örneklerinde uygulanarak optimizasyonu ve validasyonu, 2016 - 2016

ÖZÇUBUKÇU S., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÖZÇUBUKÇU S., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÖZÇUBUKÇU S., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

ÖZEN C., ÖZÇUBUKÇU S., Project Supported by Higher Education Institutions, İlaç Geliştirmesine Yönelik Venom Kaynaklı Peptit Üretimi, 2015 - 2015

ÖZÇUBUKÇU S., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÖZÇUBUKÇU S., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

ÖZÇUBUKÇU S., TUBITAK Project, İletken Peptit Nanotüp Ve Hidrojel Geliştirilmesi, 2013 - 2015

ÖZÇUBUKÇU S., AYKENT G., Project Supported by Higher Education Institutions, KENDİLİĞİNDEN YAPILANAN PEPTİTLERDEN İLETKEN HİDROJEL ELDESİ, 2013 - 2013

ÖZÇUBUKÇU S., KAZANCI C., Project Supported by Higher Education Institutions, ENZİM KATALİZÖRLÜĞÜNDE C-C BAĞI OLUŞUMU İLE ÇAPRAZ AÇILOİN TEPKİMELERİ, 2013 - 2013

ÖZÇUBUKÇU S., EŞAN G., Project Supported by Higher Education Institutions, METAL İYONU TETİKLEYİCİ KENDİ KENDİNE YAPILANARAK HİDROJEL OLUŞTURAN PEPTİTLER VE BİYOMALZEME UYGULAMALARI, 2013 - 2013

ÖZÇUBUKÇU S., TEZCAN M., Project Supported by Higher Education Institutions, IŞIKLA TETİKLENEREK KENDİLİĞİNDEN YAPILANAN PEPTİT HİDROJELLER VE BİYONANOYAPILARI, 2013 - 2013

ÖZÇUBUKÇU S., YILDIRIM L. S. , Project Supported by Higher Education Institutions, YÜKSEĞE DÖNÜŞTÜREN NANOPARÇACIKLARIN PEPTİT BAZLI İLAÇ SALINIM SİSTEMLERİ GELİŞTİRMEDE KULLANIMI, 2013 - 2013

ÖZÇUBUKÇU S., ÇİFÇİ B., Project Supported by Higher Education Institutions, ANJİYOTENSİN DÖNÜŞTÜRÜCÜ ENZİMLERİ İNHİBİTÖRÜ OLARAK KOJİK ASİT-TRİPEPTİT KONJUGATLARININ SENTEZLENMESİ, 2013 - 2013

ÖZÇUBUKÇU S., Project Supported by Higher Education Institutions, Metal İyonu Tetikleyici Kendi Kendine Yapılanarak Hidrojel Oluşturan Peptitler Ve Biyomalzeme Uygulamaları., 2011 - 2013

Patent

ÖZÇUBUKÇU S., Tris (1,2,3-triazol-4-yl) Organometallic Compounds as Catalysts and Processes Using Them, Patent, CHAPTER C Chemistry; Metallurgy, Initial Registration, 2011

Activities in Scientific Journals

Turkish Journal of Chemistry, Editor, 2013 - Continues

Memberships / Tasks in Scientific Organizations

American Peptide Society, Member, 2017 - Continues

Scientific Refereeing

JOURNAL OF PEPTIDE SCIENCE, SCI Journal, April 2019

JOURNAL OF ORGANIC CHEMISTRY, SCI Journal, March 2019

AMINO ACIDS, SCI Journal, April 2018

RSC ADVANCES, SCI Journal, November 2017

Tasks In Event Organizations

Özçubukçu S., 29. Ulusal Kimya Kongresi , Scientific Congress, Ankara, Turkey, Eylül 2017

Invited Congress and Symposium Activities

OrgChemTR-4, Working Group, Antalya, Turkey, 2018

Citations

Total Citations (WOS):593

h-index (WOS):9

Awards

ÖZÇUBUKÇU S., Yilin Egitimcisi, ODTU Mustafa Parlar Vakfi, November 2015