

Dr. Onur ŞAHİN

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Curriculum Vitae

PERSONAL INFORMATION

| | |
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| Birthday and birthplace | 14.09.1984, Istanbul |
| Nationality | Turkey |
| Marital status | Married |
| Phone | 0537 823 00 97 |

EDUCATION

June 2009- August 2015

PhD in Institute of Science, Engineering and Technology, Istanbul Technical University
Research Topic: Synthesis of boron containing donor-acceptor (d-a) organic materials and investigation of their properties.
Supervised By: Prof. Dr. Turan OZTURK

October 2010- June 2015

BSc in Sociology at Anadolu University, Open Education Faculty

October 2021-

BSc in History at Anadolu University, Open Education Faculty

June. 2007- June. 2009

MSc in Chemistry at Istanbul Technical University, Istanbul, Turkey
Master Thesis: Preparation and investigation of the properties of dithienothiophene based optoelectroactive materials.
Supervised By: Prof. Dr. Turan OZTURK

September 2001- June 2006

BSc in Chemistry Teaching at Marmara University, Atatürk Education Faculty

PUBLICATIONS

1. "Investigation of electrochromic properties of poly(3,5-bis(4-methoxyphenyl)dithieno[3,2-b;2',3'd]thiophene", O. Sahin, I. Osken, T. Ozturk, *Synthetic Metals*, 2011, **161**, 183-187.
2. "Synthesis of silver/epoxy nanocomposites by visible light sensitization using highly conjugated thiophene derivatives", Y. Yagci, O. Sahin, T. Ozturk, S. Marchi, S. Grassini, M. Sangermano, *Reactive and Functional Polymers*, 2011, **71**, 857-862.
3. "Selective syntheses of vinylenedithiathiophenes (VDTTs) and dithieno [2,3-b;20,30-d]thiophenes (DTTs); building blocks for p-conjugated systems", I. Osken, O. Sahin, A.S. Gundogan, H. Bildirir, A. Capan, E. Ertas, M.S. Eroglu, J.D. Wallis, K. Topal, T. Ozturk, *Tetrahedron*, 2012, **68**, 1216-1222.
4. "Synthesis and electrochromic properties of 3,5-diphenyl-2,6-dithiophene-2-ylidithieno[3,2-b;2',3'd]thiophene", P. Dundar, I. Osken, O.Sahin, T. Ozturk, *Synthetic Metals*, 2012, **162**, 1010-1015.
5. "Synthesis and Properties of Thiophene and Dithiin Functionalized Tetrathiafulvalenes", Ertas, E., Bildirir, H., Sahin, O., Osken, I., *Phosphorus, Sulfur, and Silicon and the Related Elements*, 2013, **188**, 1835-1844.
6. "Functionalization of fullerene (C₆₀) with metformine to immobilized palladium as a novel heterogeneous and reusable nanocatalyst in the Suzuki–Miyaura coupling reaction at room temperature", H. Veisi, R. Masti, D. Kordestani, M. Safaei, O. Sahin, *J. Mol. Catalysis A : Chemical*, 2014, **385**, 61-67.
7. "White light emitting polymers possessing thienothiophene and boron units", O. Sahin, M. E. Cinar, E. Tekin, S. P. Mucur, S. Topal, G. Suna, M. S. Eroglu, and T. Ozturk, *Chemistry Select*, 2017, **2**, 2889-2894.
8. "Synthesis and Structures of Polyiodide Radical Cation Salts of Donors Combining Tetrathiafulvalene with Multiple Thiophene or Oligo-thiophene Substituents." Jonathan Short, Toby J. Blundell, Songjie Yang, Onur Sahin, Yiana Shakespeare, Emma L. Smith, John D. Wallis, Lee Martin, *CrystEngComm*, 2020, **22**, 6632-6644.
9. O. Sahin, J. D. Wallis, 3-(4'-Bromobenzoylmethylthio)thiophene. *Crystal Structure Communication*, 2020, DOI: 10.5517/ccdc.csd.cc26fgw0, CCDC Number: 2038742.
10. Ozturk, T., Tekin, E., Sahin, O., Sevinis, B.E., Eroglu, M.S., Goren, A.C., Cinar, M.E., Turkoglu, G., 2015. New Poly(thienothiophenylborane)s and Poly(dithienothiophenylborane)s, Useful as Organic Light Emitting Materials, i.e. Organic Light Emitting Diodes (OLED), for emitting particularly white light. Patent Number :WO2015033187-A1.

ORAL AND POSTER PRESENTATIONS

1. Dithienothiophene based optoelectronic materials and investigation of their physical properties, 23. National Chemistry Congress, Cumhuriyet University, 16-20 June 2009, Sivas, Turkey (Oral presentation)
2. Synthesis of 3,5-dimethoxydiphenyldithieno[3,2-b;2',3'-d]thiophene and investigation of its electrochromic properties, 24. National Chemistry Congress, 29 June- 2 July 2010, Zonguldak Karaelmas University, Zonguldak, Turkey (Oral presentation)
3. Synthesis of 3,5-dimethoxydiphenyl dithieno[3,2-b;2',3'-d]thiophene and the investigation of electrochromic property of its homopolymer, International Symposium on the Organic Chemistry of Sulfur (ISOCS 24), 25-30 July 2010, Florence, Italy (Poster presentation)

4. "PBMPPhDTT/PEDOT Electrochromic Device Properties", 25. Ulusal Kimya Kongresi, 27 June-2 July 2011, Atatürk University, Erzurum, Turkey (*Poster Bildiri*)
5. Thienothiophene containing organoboron donor (d)-acceptor (a) systems, International Symposium on the Organic Chemistry of Sulfur (ISOCS 25), 24-29 June 2012, Czestochowa, Poland (Poster presentation)
6. Preparation of Thienothiophene based and mesitylboron containing donor-acceptor polymers and investigation of their physical properties, 26. National Chemistry Congress, Muğla University, 1-6 October, 2012, Fethiye-Muğla, Turkey (Oral presentation)
7. Synthesis of Donor and Acceptor (boron) Containing Polymers for OLED applications, 44th World Chemistry Congress, 11-16 August 2013, Istanbul, Turkey (Poster presentation)
8. OLED applications of TT-boron containing π -conjugated materials, 28. National Chemistry Congress, Çanakkale 18 Mart University, 23-28 August 2015, Çanakkale, Turkey (Oral presentation)
9. Thienothiophene-Boron Containing Polymers for White Light Emitting Applications. *3rd International Congress on Nanoscience and Nanotechnology (ICNT 2015)*, July 2-3, 2015 Istanbul-Turkey. (Oral Presentation)
10. Synthesis of Thienothiophene and DihiopheneTriphenyl Amine Couples for Organic Conductive Materials, 28. National Chemistry Congress, Mersin University, 15-21 August 2016, Mersin, Turkey (Poster presentation)
11. First Example of Thienothiophene and Boron Containing Donor-Acceptor Polymers in White Organic Light Emitting Diodes, RSC Organic Division Midlands Meeting 2018, 22nd March, Loughborough University, Department of Chemistry, West Park teaching hub, England (Poster presentation)
12. Synthesis of Conjugated Thienothiophene, Benzothiadiazole, and Boron Unit Containing DonorAcceptor Oligomers for Photovoltaic Applications , 14th International conference on materials chemistry (MC14), Aston University, 8-11 July 2019, Birmingham, United Kingdom (Poster presentation)
13. Fotovoltaik uygulamalar için Tiyenotiyofen, Benzotiyadiazol ve Bor içeren Donör-Akseptör Oligomerlerin Sentezi, 31. National Chemistry Congress, , Yıldız Teknik Üniversitesi, 10-13 Eylül 2019, İstanbul, Turkey (Poster presentation)

AWARDS AND CERTIFICATES

- 1- TUBITAK (The Scientific and Technological Research Council of Turkey) Fellowship (2017-2019)
- 2- Global Week Participation in Nottingham Trent University (26 Feb-2 March 2018)
- 3- A Plaque in Educational Outstanding Service by Mayor of Sancaktepe (GençGelecek-Istanbul, 2012-2017 years)
- 4- Spanish Language (B1) (Istanbul-Kadıkoy Public Education Centre)
- 5- French Language (A1) (Istanbul Technical University)

EXPERIENCES INTERNSHIP

| | |
|------------------------------|--|
| 2002 (1 month) | BiofarmaPharmaceutical Plant-Quality Control Laboratory (Samandıra/İstanbul) |
| 2005 –2006 (1.5 year) | Kenan Evren Anatolian High School- Chemistry Teaching Experience |
| 2006-2007 (1 year) | DorukClassroom Training- Chemistry Teaching (Çekmeköy/İstanbul) |

RESEARCH AND JOB

Oct 2021- İstinye University Pharmacy-Basic Pharmacy Sciences

Aug 2020- Medipol University Covid-19 Project (Postdoctoral and Visiting Researcher)

- Synthesis and Method Development of Remdesivir for Covid-19.
- Bor içeren yeni sodyum bütirat türevlerinin CaCo-2 kolon ve 4T1 meme hücre hatlarındaki etkileri
- Parkinson Hastalığının Tedavisinde Birden Fazla Reseptörü Hedefleyebilen Özgün Terapötik Moleküllerin Geliştirilmesi.

June 2021- Istanbul University Pharmacy (Postdoctoral Researcher- Novel Non-Nucleoside Hepatitis-C RNADependent RNA Polymerase (NS5B) Inhibitors that Bind to The Allosteric Thumb Site II)

Dec 2020- June 2021 Sabanci University-SUNUM (Sabanci University Nanotechnology Research and Application Centre)- (Postdoctoral Research in European Project Support)

2019-2020 Sancaktepe Birikim Koleji (Chemistry Teacher)

Oct 2017-2019 Nottingham Trent Universit-School of Science & Technology- Chemistry and Forensic Science (Fellowship by The Scientific and Technological Research Council of Turkey (TUBITAK)- Post-doctoral research with Prof. John Wallis)

2007-2016 Prof. Dr. Turan ÖZTÜRK Organic Material Research Lab. (Thesis and Project Studies)

2012-2017 GençGelecek Samandıra (Chemistry Teacher and Head of Chemistry Department)

2009-2010 Çekmeköy Mehmetçik High School (Chemistry Teacher)

2006-2008 Çekmeköy Doruk Classroom Training (Chemistry Teacher)

2005-2006 Marmara University Faculty of Arts and Sciences, General Chemistry Lab..Student Assistant (Preparation and Management of Junior Students)

2004-2005 Marmara University Faculty of Arts and Sciences, Instrumental Analysis Chemistry Lab. Student Assistant (Preparation and Management of Junior Students)

2003-2004 Marmara University Faculty of Arts and Sciences, Analytical Chemistry Lab. Student Assistant (Preparation and Management of Junior Students)

PROJECTS & ORGANIZATIONS

- 1-“Novel Non-Nucleoside Hepatitis-C RNADependent RNA Polymerase (NS5B) Inhibitors that Bind to The Allosteric Thumb Site II” (TÜBİTAK Covid-19 Project 2020-2021)
- 2-“Pandemik Corona Virüsüne Karşı Dışa Bağımlılığı Azaltacak İlaçların Yeni Sentez Yöntemleriyle Geliştirilmesi”- (TÜBİTAK Project 118C312 June 2021-)
- 3-“Synthesis Of Boron And 2,1,3-Benzothiadiazole Containing Materials And Their Application To Optoelectronics”- TUBITAK Postdoctoral Research Project (October 2017-2019)
- 4-“Synthesis of New Organic Materials Containing Donor (DTT)- Acceptor (Boron) and Investigation their Properties for Electronic, Optoelectronic and Sensor Applications” -TÜBİTAK Project Number: 111T075.(2011-2013) (Researcher)
- 5-“Synthesis of Multifunctional π -conjugated Materials Bearing Heterocyclic Unitsand Contaning Phosphorusand Sulphur, and Investigation of Electronic and Optoelectronic Properties TÜBİTAK-France (CNRS) 108T941, 2009-2011 (Researcher)
- 6-Dithienothiophene Based Optoelectronic Materials and Investigation of their Properties Istanbul Technical University, Scientific Research Project (BAP), (2007-2009). (Researcher)

INSTRUMENTAL & EXPERIMENTAL

SKILLS

| | |
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| Cyclic Voltammetry | (During my MSc, PhD, and Postdoc Studies) |
| UV-vis | (During my MSc, PhD, and Postdoc Studies) |
| Fluorescence Spectroscopy | (During my PhD Studies) |
| Spin Coating | (During my PhD Studies) |
| CV-UV in situ | (During my MSc and PhD Studies) |
| FT-IR | (During my MSc and PhD, and Postdoc Studies) |
| Electrochromic | (During my MSc and PhD Studies) |
| Polimerization | (During my MSc and PhD Studies) |
| Chromatograph (Thin Layer, Column, Preparative) | (During my MSc, PhD, and Postdoc Studies) |
| Organic Synthesis (Mostly Sulfur, Boron based) | (During my MSc, PhD, and Postdoc Studies) |
| Medicinal-Pharmaceutical Chemistry Practices | (Sabancı, Medipol, İstanbul Univercities) |
| X-ray Single Crystal (Theoretical -Practical studies) | (During Postdoc Research in Nott. Trent Uni.) |
| Flash Combi Chromatograph | (Medipol University in Postdoctoral Research) |
| LCMS Chromatograph | (Medipol University in Postdoctoral Research) |
| TGA | (Sabancı University in Postdoctoral Research) |
| Nanodrop | (Sabancı University in Postdoctoral Research) |

LANGUAGES

| | Speaking (-/5) | Listening (-/5) | Writing (-/5) |
|-------------|----------------|-----------------|---------------|
| Turkish (N) | 5 | 5 | 5 |
| English | 4 | 4 | 4 |
| Spanish | 1 | 2 | 2 |
| French | 1 | 1 | 1 |

LECTURES in Turkish and English

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|---------------------------------|--------------------------------------|----------------------------|-----------------------------------|
| <i>General Chemistry</i> | <i>Organic Chemistry</i> | <i>Organic Conductives</i> | <i>Chemistry of Heterocyclics</i> |
| <i>Pharmaceutical Chemistry</i> | <i>Science and Chemistry History</i> | | |