

ÖZGEÇMİŞ

1. **Adı Soyadı: SENEM KAYAHAN**
2. **Doğum Tarihi: 15.09.1976**
3. **Unvanı: DOÇENT**
4. **Öğrenim Durumu: doktora**

| Derece | Alan | Üniversite | Yıl |
|-----------|-------|-------------------------------|------|
| Lisans | Kimya | Orta Doğu Teknik Üniversitesi | 1997 |
| Y. Lisans | Kimya | Orta Doğu Teknik Üniversitesi | 2000 |
| Doktora | Kimya | Orta Doğu Teknik Üniversitesi | 2004 |

5. Akademik Unvanlar:

Yardımcı Doçentlik Tarihi :
Doçentlik Tarihi : 06.03.2018
Profesörlük Tarihi :

6. Yönetilen Yüksek Lisans ve Doktora Tezleri

6.1. Yüksek Lisans Tezleri:

Synthesis and characterization of polythiophene and polythiophene/polybutadiene composites

Politiyofen ve politiyofen/polibutadien kompozitlerinin sentezi ve karakterizasyonu

6.2. Doktora Tezleri:

Synthesis of conducting block copolymers and their use in the immobilization of invertase and polyphenol oxidase enzymes

İletken kopolimerlerde invertaz ve polifenol oksidaz enzimlerinin tutuklanması

7. Yayınlar

7.1. Uluslararası hakemli dergilerde yayınlanan makaleler (SCI & SSCI & Arts and Humanities)

1. S. Kiralp, S. Alkan, L. Toppare, I. Cianga, Y. Yagci "Synthesis and Characterization of Conducting Copolymers of Menthyl Ester of 3-Thiophene Acetic Acid with Pyrrole". J. Macrom. Sci. Pure and Appl. Chem., A40, 251(2003).
2. S.Kiralp, L.Toppare, Y.Yağcı "Immobilization of Invetase in Copolymers of thiophene Functionalized Menthyl Ester with pyrrole" Synth. Met., 135, 79(2003)
3. S. Kiralp, L. Toppare, Y. Yağcı "Immobilization of Polyphenol Oxidase in Conducting Copolymers and Determination of Phenolic Compounds in Wines with Enzyme Electrodes" Int. J. Biol. Macrom., 33, 37(2003)
4. S.Kiralp, Z.Küçükyavuz, A.F.Qasrawi "Preparation and characterization of Conducting polybutadiene/Polythiophene Composites" Turkish J. Chem. 27, 417(2003)
5. S. Kiralp, L. Toppare, Y. Yağcı "Determination of Phenolic Compounds in Wines with Enzyme Electrodes Fabricated by Immobilization of Polyphenol Oxidase in Conducting Copolymers" Des Monomers Polym., 7,3 (2004)

6. H.B.Yildiz, S.Kiralp, L.Toppare, F.Yilmaz, Y.Yağcı, K.Ito, T.Senyo "Conducting copolymers of 3-methyl methacrylate and p-vinylbenzyloxy poly(ethyleneoxide) and their electrochromic properties" *Polymer Bulletin* 53, 193 (2005)
7. S. Kiralp, A. Cirpan, L. Toppare "Enzyme Electrodes for Determination of Total Phenolic Capacity of Red Wines" *J.Appl. Polm. Sci.* 98(1), 521-524 (2005)
8. H.B.Yildiz, S.Kiralp, L.Toppare, Y. Yağcı "Immobilization of invertase in conducting polypyrrole/PMMA-co-PMTM graft copolymers" *J.Appl. Polm. Sci.* 96(2), 502-507 (2005)
9. H. B.Yildiz, S.Kiralp, L.Toppare, F.Yilmaz, Y.Yağcı, " Immobilization of tyrosinase in polyethylene oxide electrodes and determination of phenolics in red wines" *Rect. Funct. Polym.*63, , 155-161 (2005)
10. A.Aslan, S.Kiralp, L. Toppare, Y.Yagci. "Immobilization of tyrosinase in polysiloxane/polypyrrole copolymer matrices" *Int. J. Biol. Macrom.*35, 163-167 (2005).
11. H. B. Yıldiz, S. Kiralp, L. Toppare, Y. Yagci. "Immobilization of Glucose Oxidase in Conducting Graft Copolymers and Determination of Glucose Amount in Orange Juices with Enzyme Electrodes". *Int.J. Biol. Macrom.*37,174-178 (2005)
12. H. B. Yıldiz, S. Kiralp, L. Toppare, Y. Yagci, K.Ito. "Synthesis of conducting copolymers oh thiophene capped poly(ethylene oxide) with pyrrole and thiophene" *Matr. Chem. Phys* 100, 124-127(2006).
13. S. Kiralp, L. Toppare. "Polyphenol Content in Selected Turkish Wines, an Alternative Method of Detection of Phenolics". *Process Biochem.*41, 236-239 (2006).
14. Y. Yagci, F. Yilmaz, S. Kiralp, L. Toppare. "Photoinduced Polymerization of Thiophene Using Iodonium Salts". *Macrom.Chem.Phys.* 206(12), 1178-1182 (2005)
15. Ahu Arslan, Senem Kiralp Levent Toppare, Ayhan Bozkurt "Novel Proton Conducting Polymer Electrolyte Biosensor Based on Poly(1-vinyl imidazole) and Poly(acrylic acid) Interpenetrating Networks" *Langmuir* 22, 2912-2915 (2006)
16. A.Elif Büyükbayram, Senem Kiralp, Levent Toppare,*, Yusuf Yağcı "Preparationof biosensors by immobilization of polyphenol oxidase in conducting copolymers and their usein determination of phenolic compounds in red wine" *Bioelectrochemistry*, 69, 164-178 (2006)
17. I. Narlı, S. Kiralp, L. Toppare "Preventing Inhibition of tyrosinase with modified electrodes" *Anal. Chim. Acta.*, 572, 25-31 (2006)
18. O.Ekinci, A.E. Boyukbayram, S. Kiralp, L. Toppare, Y. Yağcı "Fabrication, Characterization and Potential Applications of Glucose Oxidase and Polyphenol Oxidase Biosensors" *J. Macromol. Sci Pure. Appl. Chem.* 44, 1-8 (2007).
19. M. Cil, A.E. Boyukbayram, S. Kiralp, L. Toppare, Y. Yağcı "Various Applications of Immobilized Glucose Oxidase and Polyphenol Oxidase in a Conducting Polymer Matrix" *Int. J. Biol. Macrom.* 41, 49-55 (2007)
20. G. Bayramoğlu, S. Kiralp, M. Yilmaz, L. Toppare, M. Y. Arica "Covalent immobilization of chloroperoxidase onto magnetic beads: Catalytic properties and stability" *Biochem. Eng. J.*, 38, 180-188 (2008),
21. S. Kiralp, A. Topcu, G. Bayramoğlu, M. Y. Arica, L. Toppare "Alcohol determination via covalent enzyme immobilization on magnetic beads" *Sensors and Actuators B: Chemical* 128, 521-528 (2008).
22. S. Kiralp, B. Balik, S. Karatas, L. Toppare, A. Gungor "An Alternative Supporting Electrolyte for Enzyme Immobilization in Conducting Polymers" *Int. J. Biol. Macrom. Short Comm.* 42, 191-194 (2008)
23. S. Tuncagil, S. Kiralp, S. Varis, L. Toppare "Immobilization of invertase in a conducting polymer of 1-(4-Nitrophenyl)-2, 5-di (2-Thienyl)-1H-pyrrole" *Reactive and Functional Polymers*, 68, 710-717 (2008)

24. S. Kiralp, P. Camurlu, G. Gunbas, C. Tanyeli, M. Akhmedov, L. Toppare "Electrochromic Properties of a Copolymer of 1-4-Di[2,5-di(2-thienyl)-1H-1-pyrrolyl]benzene and EDOT" J. Appl. Polym. Sci. 112, 1082-1087(2009)
25. P. Camurlu, S. Kiralp Kayahan, L. Toppare "Immobilization of tyrosinase in poly(2-thiophen-3-yl-alkyl ester) derivatives" J. Macr. Sci. Pure Appl. Chem 45, 1011-1016 (2008).
26. D. Odaci, S. Kiralp Kayahan, S. Timur, L. Toppare "Use of a Thiophene-based Conducting Polymer in Microbial Biosensing" Electrochimica Acta 53, 4104-4108 (2008)
27. Ö. Türkarlan, S. Kiralp Kayahan, L. Toppare "Poly(pyrrole) versus Poly(3,4-ethylenedioxythiophene): Amperometric Cholesterol Biosensor Matrices" Journal of solid state electrochemistry, 13(5), 657-663 (2009)
28. M. Kartal, S. Kiralp Kayahan, A. Bozkurt, L. Toppare "Immobilization of Tyrosinase in Proton Conducting Polymers of Alginic Acid and Poly(1-vinylimidazole)" Polym. J. 41(1), 46-50 (2009)
29. M. Kartal, S. Kiralp Kayahan, A. Bozkurt, L. Toppare "Entrapment of Invertase in an Interpenetrated Polymer Network of Alginic Acid and Poly (1-vinyl imidazole)" Talanta 77, 659-662 (2008).
30. S. Tuncagil, S. Kiralp Kayahan, G. Bayramoglu, Y. Arica, L. Toppare "L-DOPA Synthesis Using Immobilized Tyrosinase on Magnetic Beads. Journal of Molecular Catalysis B: Enzymatic, 58(1-4), 187-193 (2009).
31. E. Yapar, S. Kiralp Kayahan, A. Bozkurt, L. Toppare "Immobilizing cholesterol oxidase in chitosan-alginic acid network" Carbohydrate Polymers 76 (3), 430-436 (2009)
32. Ö. Türkarlan, S. Kiralp Kayahan, L. Toppare "A new Amperometric Cholesterol Biosensor Based on PEDOP" Sensors and Actuators B, 136, Issue 2, 484-488 (2009)

7.2. Uluslararası diğer hakemli dergilerde yayınlanan makaleler

7.3. Uluslararası bilimsel toplantılarda sunulan ve bildiri kitabında (*Proceedings*) basılan bildiriler

7.4. Yazılan uluslararası kitaplar veya kitaplarda bölümler

1. S. Kiralp, P. Çamurlu, G. Özkoç, T. Baydemir, S. Erdoğan, M. Doğan "Modern Çağın malzemesi: Plastikler" ODTÜ Yayıncılık 2006
2. I. Narlı, S. Kiralp, L. Toppare "Determination of Phenolic Compounds in Wines with Tyrosinase Modified Electrodes" Frontiers in Polymer Research, Nova Science Publishers, Inc. Chapter 6, 153-167.
3. U. Yalçiner, S. Kayahan, B. Sağdıç, S. İnal, G. Doğan, "Patent ve Marka Vekilliği Hazırlık Kitabı" (2019)

7.5. Ulusal hakemli dergilerde yayınlanan makaleler

1. S. Kayahan, C. Tunç "Patentlenebilirlik için Gereken İlk Kriter: Teknik Karakter" Ankara Barosu FMR Dergisi, 2020/2 (Aralık, 2020)

7.6. Ulusal bilimsel toplantılarda sunulan ve bildiri kitabında basılan bildiriler

7.7. Diğer yayınlar

8. Projeler

9. İdari Görevler

10. Bilimsel ve Mesleki Kuruluşlara Üyelikler

11. Ödüller

12. Son iki yılda verdiğiniz lisans ve lisansüstü düzeydeki dersler için aşağıdaki tabloyu doldurunuz.

| Akademik Yıl | Dönem | Dersin Adı | Haftalık Saati | | Öğrenci Sayısı |
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| 2021 | Güz | | | | |
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