

Lect. PhD LEYLA BUDAMA AKPOLAT

Personal Information

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International Researcher IDs

ORCID: 0000-0002-2271-1116

Publons / Web Of Science ResearcherID: I-9457-2017

Yoksis Researcher ID: 202045

Education Information

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| 2011 - 2018 | Doctorate, Akdeniz University, Faculty Of Science, Department of Chemistry, Turkey |
| 2008 - 2011 | Postgraduate, Akdeniz University, Faculty Of Science, Department of Chemistry, Turkey |
| 2004 - 2008 | Undergraduate, Akdeniz University, Faculty Of Science, Department of Chemistry, Turkey |

Foreign Languages

English, B2 Upper Intermediate

Dissertations

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| 2015 | Ag nanopartiküllerin bitki ekstraktlarından sentezi, karakterizasyonu ve polilaktasit polimerine katkılanarak elektro lif çekim yöntemiyle elde edilen liflerin özelliklerinin belirlenmesi , Akdeniz University, Faculty of Science, Kimya Anabilim Dalı, Doctorate |
| 2011 | TERS MİSEL SİSTEMİ KULLANARAK GÜMÜŞ NANOPARTİKÜL SENTEZİ VE KARAKTERİZASYONU, Akdeniz University, Faculty of Science, Department of Chemistry, Postgraduate |

Research Areas

Chemistry, Inorganic Chemistry, nanoclusters, Natural Sciences

Academic Titles / Tasks

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| 2018 - Continues | Lecturer PhD, Akdeniz University, Korkuteli Vocational School, Department of Plant and Animal Production |
| 2011 - 2017 | Research Assistant, Akdeniz University, Faculty of Science, Department of Chemistry |

Courses

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|---------------------------------------|------------------------------------------------|
| 2023 - 2024, 2022 - 2023, 2021 - 2022 | İşçi Sağlığı ve İş Güvenliği, Associate Degree |
| 2023 - 2024, 2022 - 2023 | Girişimcilik, Associate Degree |

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|----------------------------------------------------|--------------------------------------------------|
| 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021 | KALİTE GÜVENÇE VE STANDARTLAR, Associate Degree |
| 2023 - 2024, 2022 - 2023 | Bahçe Ürünlerinin Muhafazası, Associate Degree |
| 2023 - 2024, 2022 - 2023, 2021 - 2022 | ARAŞTIRMA YÖNTEM VE TEKNİKLERİ, Associate Degree |
| 2023 - 2024, 2022 - 2023, 2020 - 2021 | KİMYA, Associate Degree |
| 2022 - 2023, 2021 - 2022 | ÇEVRE KORUMA, Associate Degree |
| 2021 - 2022 | İlk Yardım, Associate Degree |
| 2018 - 2019 | İNGİLİZCE- I, Associate Degree |

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Adsorption of dimethyl disulfide onto activated carbon cloth**
Mert Sivri F., Hoda N., Topuz A., Budama Akpolat L., Eroğlu E.
Turkish Journal of Chemistry, vol.46, no.3, pp.859-868, 2022 (SCI-Expanded)
- II. **Fabrication of platinum nanoparticles in aqueous solution and solid phase using amphiphilic PB-b-PEO copolymer nanoreactors**
HODA N., Budama L., Cakir B. A., Topel Ö., Ozisik R.
MATERIALS RESEARCH BULLETIN, vol.48, no.9, pp.3183-3188, 2013 (SCI-Expanded)
- III. **A new strategy for producing antibacterial textile surfaces using silver nanoparticles**
Budama L., Cakir B. A., TOPEL Ö., HODA N.
CHEMICAL ENGINEERING JOURNAL, vol.228, pp.489-495, 2013 (SCI-Expanded)
- IV. **Determination of critical micelle concentration of polybutadiene-block-poly(ethyleneoxide) diblock copolymer by fluorescence spectroscopy and dynamic light scattering**
TOPEL Ö., Cakir B. A., Budama L., HODA N.
JOURNAL OF MOLECULAR LIQUIDS, vol.177, pp.40-43, 2013 (SCI-Expanded)
- V. **Synthesis of ZnO nanoparticles using PS-b-PAA reverse micelle cores for UV protective, self-cleaning and antibacterial textile applications**
Cakir B. A., Budama L., TOPEL Ö., HODA N.
COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, vol.414, pp.132-139, 2012 (SCI-Expanded)
- VI. **Antibacterial glass films prepared on metal surfaces by sol-gel method**
KİRAZ N., Kesmez Ö., BURUNKAYA E., Budama L., ACAR B., Asiltürk M., ÇAMURLU H. E., ARPAÇ E.
JOURNAL OF SOL-GEL SCIENCE AND TECHNOLOGY, vol.56, no.3, pp.227-235, 2010 (SCI-Expanded)

Articles Published in Other Journals

- I. **Biosynthesis of Bimetallic Ag-Au (core-shell) Nanoparticles Using Aqueous Extract of Bay Leaves (Laurus nobilis L.)**
HODA N., BUDAMA AKPOLAT L., MERT SİVRİ F., Kurtuluş D.
Journal of the Turkish Chemical Society Section A: Chemistry, vol.8, 2021 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **SYNTHESIS OF Ag, Au and BIMETALIC Ag-Au NANOPARTICLES USING AQUEOUS TURMERIC EXTRACT**

HODA N., BUDAMA AKPOLAT L., MERT F., Ambreen N.

5th International Conference on Materials Science and Nanotechnology For Next Generation (MSNG-2018), Nevşehir, Turkey, 4 - 06 October 2018

- II. **SYNTHESIS OF GOLD NANOPARTICLES USING AQUEOUS TURMERIC EXTRACT**
HODA N., BUDAMA AKPOLAT L., Demirhan T., Ambreen N.
13th Nanoscience Nanotechnology Conference, Antalya, Turkey, 22 - 25 October 2017
- III. **Şerbetçi otu (Humulus Lupulus L.) ekstraktında Ag nanopartikülleri sentezi ve karakterizasyonu**
HODA N., BUDAMA AKPOLAT L.
VI. Ulusal Anorganik Kimya Kongresi, Burdur, Turkey, 18 - 21 May 2017, pp.83
- IV. **SYNTHESIS OF SILVER NANOPARTICLES USING AQUEOUS OLIVE OLEA EUROPAEA L TREE LEAVES EXTRACT**
HODA N., BUDAMA AKPOLAT L., DEMİRHAN T.
WORLD CONGRESS ON ENGINEERING AND APPLICATIONS, 16 - 17 December 2016
- V. **Gas phase adsorption of dimethyl sulfide on activated carbon cloth GDSEL651**
HODA N., TOPUZ A., MERT F., BUDAMA AKPOLAT L., EROĞLU E.
FILTECH, 24 - 26 February 2015
- VI. **Ters miseller içerisinde Ag-TiO₂ nanopartikülleri sentezi ve fonksiyonel tekstil uygulamaları**
HODA N., BUDAMA AKPOLAT L., TOPEL Ö., ACAR ÇAKIR B.
27. Ulusal Kimya Kongresi, Çanakkale, Çanakkale, Turkey, 25 - 28 August 2015, pp.611
- VII. **Silika ile modifiye edilmiş Fe₃O₄ nanopartikül sentezi ve karakterizasyonu**
HODA N., BUDAMA L., YARBASAN D., GÜNEŞOĞLU C.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.1
- VIII. **Yeşil kimya ile üretilmiş Ag nanopartiküllerinin nanoliflere uygulanması**
HODA N., Kara F., BUDAMA L., Ambreen N.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.1-2
- IX. **Yeşil kimya ile Au-Ag bimetallik nanopartiküllerinin sentezlenmesi ve nanoliflere uygulanması**
HODA N., BUDAMA L.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.1-2
- X. **Ters Miseller içerisinde Ag-TiO₂ nanopartikülleri sentezi ve fonksiyonel tekstil uygulamaları**
HODA N., BUDAMA L., TOPEL Ö., Acar Çakır B.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.1
- XI. **Synthesis and characterization of citric acid and sodium citrate coated Fe₃O₄ nanoparticles**
YARBASAN D., BUDAMA AKPOLAT L., HODA N., GÜNEŞOĞLU C.
NANOTR-11, 22 - 25 June 2015
- XII. **Biogenic synthesis of bimetallic nanoparticles using plant extract and their nanofiber application**
AMBREEN N., BUDAMA AKPOLAT L., HODA N.
NANOTR-11, 22 - 25 June 2015
- XIII. **GAS PHASE ADSORPTION OF DIMETHYL DISULFIDE ON ACTIVATED CARBON CLOTH GDSEL651**
HODA N., TOPUZ A., Firdevs M., BUDAMA L., Eroğlu E.
FILTECH-THE FILTRATION EVENT 2015, 24 - 26 February 2015
- XIV. **Gas Phase Adsorption of Dimethyl Sulfide on Activated Carbon Cloth (GDSEL651)**
HODA N., TOPUZ A., MERT SİVRİ F., BUDAMA AKPOLAT L., EROĞLU E.
Filtech 2015, Germany, 24 February 2015
- XV. **Synthesis of single and bimetallic nanoparticles within PS b PAA reverse micelle cores**
TOPEL Ö., ACAR ÇAKIR B., BUDAMA L., HODA N.
European Cost Action MP0903 Nanoalloys, Genoa, Italy, 5 - 09 April 2014, pp.42
- XVI. **Synthesis of TiO₂ nanoparticles in self assembling reverse micelle cores of PS b PAA for UV Protective and Self cleaning Textile Applications**
TOPEL Ö., ACAR ÇAKIR B., BUDAMA L., HODA N.
European Cost Action MP0903 Nanoalloys, Genoa, Italy, 5 - 09 April 2014, pp.91
- XVII. **Diblok kopolimer içerisinde Ag nanopartiküllerinin üretimi**

HODA N., ACAR B., BUDAMA L., TOPEL Ö.

2. Uluslararası katılımlı polimerik kompozitler sempozyum-sergi ve proje pazarı, İzmir, Turkey, 26 - 28 November 2010, pp.246-254

XVIII. Synthesis of platinum nanoparticles within diblock copolymer in liquid and solid phases

HODA N., ACAR B., BUDAMA L., TOPEL Ö.

11th Eurasia Conference on Chemical Sciences., Jordan, 6 - 10 October 2010, pp.114

XIX. Determination of Critical Micelle Concentration (cmc) of PB-b-PEO Diblock Copolymer by Two Different Methods

TOPEL Ö., Acar B., BUDAMA AKPOLAT L., HODA N.

6. Nanoscience and Nanotechnology Conference, İzmir, Turkey, 15 June 2010

XX. INVESTIGATION OF REVERSE MICELLAR SYSTEM OF POLYSTYRENE-BLOCK-POLYACRYLIC ACID IN TOLUENE

Acar B., BUDAMA AKPOLAT L., TOPEL Ö., HODA N.

6. Nanoscience and Nanotechnology Conference, İzmir, Turkey, 15 June 2010

XXI. Synthesis of Silver Nanoparticles Using Reverse Micelle System

BUDAMA AKPOLAT L., Acar B., TOPEL Ö., HODA N.

6. Nanoscience and Nanotechnology Conference, İzmir, Turkey, 15 June 2010

XXII. Fabrication of Platinum Nanoparticles Using Amphiphilic Copolymer Template

HODA N., ACAR B., BUDAMA L., TOPEL Ö.

6th Nanoscience and Nanotechnology Conference, İzmir, Turkey, 15 - 18 June 2010, pp.654

XXIII. Optimization of biodiesel production from cottonseed oil by transesterification using NaOH and methanol

HODA N., ERZENGİN M., BUDAMA L.

10th congress of international mechanization and energy in agriculture, 14 - 17 October 2008

Supported Projects

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| 2015 - 2018 | Ag nanopartiküllerin bitki ekstraktlarından sentezi karakterizasyonu ve polilaktik asit polimerine katkılanarak elektro lif çekim yöntemiyle elde edilen liflerin özelliklerinin belirlenmesi, Project Supported by Higher Education Institutions |
| 2014 - 2017 | BİTKİ EKSTRAKT LARI KULLANILAN BİMETALİK NANOPARTİKÜL SENTEZ ÇALIŞMALARI, Project Supported by Higher Education Institutions |

Scientific Refereeing

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| June 2023 | INTERNATIONAL JOURNAL OF SECONDARY METABOLITE, National Scientific Refreed Journal |
| July 2022 | Bayburt Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal |

Metrics

Publication: 30

Citation (WoS): 322

Citation (Scopus): 448

H-Index (WoS): 4

H-Index (Scopus): 5

Congress and Symposium Activities

- 2015 YEŞİL KİMYA İLE Au-Ag BİMETALİK NANOPARTİKÜLLERİNİN SENTEZLENMESİ VE NANOLİFLERE UYGULANMASI, Attendee, Çanakkale, Turkey
- 2015 Biogenic synthesis of bimetallic nanoparticles using plant extract and their nanofiber application, Attendee, Turkey
- 2015 Synthesis and characterization of citric acid and sodium citrate coated Fe₃O₄ nanoparticles, Attendee, Ankara, Turkey
- 2010 Fabrication of Platinum Nanoparticles Using Amphiphilic Copolymer Template, Attendee, Turkey
- 2010 Investigation of Reverse Micellar System of Polystyrene-block-polyacrylic acid in Toluene, Attendee, Turkey
- 2010 Synthesis of Silver Nanoparticles Using Reverse Micelle System, Attendee, İzmir, Turkey
- 2010 Determination of Critical Micelle Concentration (cmc) of PB-b-PEO Diblock Copolymer by Two Different Methods, Attendee, İzmir, Turkey