

## Assoc. Prof. ASIYE NAS

### Personal Information

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### International Researcher IDs

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### Education Information

Doctorate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya/Anorganik Kimya, Turkey 2006 - 2013

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Kimya/Anorganik Kimya, Turkey 2005 - 2006

Undergraduate, Karadeniz Technical University, Fen Edebiyat Fakültesi, Turkey 1999 - 2004

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Tetra sübtitüe grup içeren yeni ftalosiyanınların elektrokimyasal, fotofiziksel ve fotokimyasal özelliklerinin incelenmesi, Karadeniz Technical University, -, Kimya, 2013

Postgraduate, Karışık Donörlü Makrosikliklerin Ekstraksiyon Özelliklerinin İncelenmesi, vic-Dioksim Kompleks Formasyonlarının Sentezi ve Karakterizasyonu, Karadeniz Technical University, -, Kimya, 2006

### Research Areas

Chemistry, Inorganic Chemistry, Transition Metals, Coordination Chemistry, Organometallic Chemistry, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2018 - Continues

Assistant Professor, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2018 - 2018

Assistant Professor, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2014 - 2018

Research Assistant, Karadeniz Technical University, Fen Fakültesi, Kimya, 2009 - 2013

## Academic and Administrative Experience

Deputy Head of Department, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2021 - Continues

Deputy Head of Department, Karadeniz Technical University, Maçka Meslek Yüksekokulu, Kimya ve Kimyasal İşleme Teknolojileri, 2020 - 2021

Karadeniz Technical University, Maçka Meslek Yüksekokulu, 2017 - 2020

## Courses

MESLEK HESAPLARI, Associate Degree, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015

Bitki ve Toprak Analizleri, Associate Degree, 2019 - 2020

TEKNİK PROJE, Associate Degree, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

MESLEKİ DENEYİM-I, Associate Degree, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015

Genel Matematik, Associate Degree, 2019 - 2020

Mesleki Deneyim-II, Associate Degree, 2018 - 2019, 2017 - 2018, 2016 - 2017

Kimya-II, Associate Degree, 2019 - 2020, 2017 - 2018, 2016 - 2017

Genel Kimya-II, Associate Degree, 2018 - 2019, 2017 - 2018, 2016 - 2017

Laboratuar Teknikleri-II, Associate Degree, 2018 - 2019, 2017 - 2018, 2016 - 2017

Laboratuar Aletlerinin bakımı ve Kullanımı, Associate Degree, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Kimya-I, Associate Degree, 2018 - 2019, 2017 - 2018, 2016 - 2017

Bitki ve Toprak Analizleri, Associate Degree, 2018 - 2019, 2017 - 2018, 2016 - 2017

Genel Kimya-I, Associate Degree, 2018 - 2019, 2017 - 2018, 2016 - 2017

MESLEKİ DENEYİM II, Associate Degree, 2015 - 2016, 2014 - 2015

TEKSTİL VE BOYAR MADDELER, Associate Degree, 2014 - 2015

LABORATUVAR TEKNİKLERİ II, Associate Degree, 2014 - 2015

MATEMATİK-II, Associate Degree, 2014 - 2015

KİMYADA TEMEL KAVRAMLAR LAB, Associate Degree, 2014 - 2015

BİTKİ VE TOPRAK ANALİZİ, Associate Degree, 2014 - 2015

MATEMATİK, Associate Degree, 2014 - 2015

LABORATUVAR ALETLERİNİN BAKIMI VE KULLANIMI, Associate Degree, 2014 - 2015

ENSTRÜMENTAL ANALİZ LAB, Associate Degree, 2014 - 2015

## Jury Memberships

Post Graduate, SYMMETRY AND ASYMMETRY IN ELECTROCATALYSIS: ENHANCING, THE ELECTROCATALYTIC ACTIVITY OF PHTHALOCYANINES THROUGH SYNERGY WITH DOPED GRAPHENE QUANTUM DOTS, Rhodes University, March, 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Chloromanganese and oxo-Titanium (IV) phthalocyanines: Synthesis, electrochemistry and Spectroelectrochemistry**  
DİLBER G., NAS A., BUDAK Ö., KOCA A.  
POLYHEDRON, vol.242, 2023 (SCI-Expanded)
- II. **Asymmetrically tetra-substituted phthalocyanine derivatives: synthesis, photophysical and photochemical properties**  
Dilber G., Nas A., Pişkin M., Durmus M.

TRANSITION METAL CHEMISTRY, vol.47, no.4-5, pp.157-168, 2022 (SCI-Expanded)

- III. **Synthesis, characterization, and photochemical properties of novel peripherally and non-peripherally tetra substituted zinc(II) and magnesium(II) phthalocyanines containing 4-(1,5-diphenyl-4,5-dihydro-1H-pyrazol-3-yl)phenol units**  
Yalazan H., Koc M., Fandaklı S., Nas A., Durmus M., Kantekin H.  
POLYHEDRON, vol.170, pp.576-583, 2019 (SCI-Expanded)
- IV. **The peripheral and non-peripheral 2H-benzotriazole substituted phthalocyanines: Synthesis, characterization, photophysical and photochemical studies of zinc derivatives**  
Dilber G., Altunparmak H., Nas A., Kantekin H., Durmus M.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.217, pp.128-140, 2019 (SCI-Expanded)
- V. **Characterization and purification of 1,2,4-triazole-containing phthalocyanines synthesized by microwave method and structure elucidation by spectroscopic techniques**  
Nas A., Demirbaş Ü., Gümrükçüoğlu N., Kantekin H.  
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.1, pp.229-238, 2019 (SCI-Expanded)
- VI. **Simultaneous determination of theophylline and caffeine on novel [Tetra-(5-chloroquinolin-8-yloxy) phthalocyanato] manganese(III)-Carbon nanotubes composite electrode**  
Kocak C. C., Nas A., Kantekin H., Dursun Z.  
TALANTA, vol.184, pp.452-460, 2018 (SCI-Expanded)
- VII. **Tetra(3-(1,5-diphenyl-4,5-dihydro-1H-pyrazol-3-yl) phenoxy) substituted cobalt, iron and manganese phthalocyanines: Synthesis and electrochemical analysis**  
Nas A., Bıyıklıoğlu Z., Fandaklı S., Sarkı G., Yalazan H., Kantekin H.  
INORGANICA CHIMICA ACTA, vol.466, pp.86-92, 2017 (SCI-Expanded)
- VIII. **The photo-physicochemical properties of an octa-substituted zinc phthalocyanine containing 1,2,4-triazole moieties**  
Nas A.  
JOURNAL OF COORDINATION CHEMISTRY, vol.69, no.8, pp.1326-1336, 2016 (SCI-Expanded)
- IX. **L shell X-ray fluorescence parameters of Pb in phthalocyanine complexes**  
Dogan M., Cengiz E., Nas A., Tıraşoğlu E., Kantekin H., Aylikci V.  
APPLIED RADIATION AND ISOTOPES, vol.104, pp.43-48, 2015 (SCI-Expanded)
- X. **Electrochemical and Spectroelectrochemical Analysis of 4-(4-(5-Phenyl-1,3,4-oxadiazole-2-yl)phenoxy)-Substituted Cobalt(II), Lead(II) and Metal-Free Phthalocyanines**  
Nas A., Kantekin H., Koca A.  
ELECTROANALYSIS, vol.27, no.7, pp.1602-1609, 2015 (SCI-Expanded)
- XI. **The influence of the various central metals on photophysical and photochemical properties of benzothiazole-substituted phthalocyanines**  
Nas A., Dilber G., Durmus M., Kantekin H.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.135, pp.55-62, 2015 (SCI-Expanded)
- XII. **Unmetallated and metallated phthalocyanines bearing oxadiazole groups: Synthesis, photophysical and photochemical studies**  
Nas A., Kantekin H., Durmus M., Gümrükçüoğlu N.  
JOURNAL OF LUMINESCENCE, vol.154, pp.15-21, 2014 (SCI-Expanded)
- XIII. **K shell X-ray fluorescence parameters of Co, Ni, Cu and Zn in phthalocyanine complexes**  
Dogan M., Cengiz E., Dilber G., Nas A., Tıraşoğlu E., Kantekin H.  
RADIATION PHYSICS AND CHEMISTRY, vol.101, pp.30-35, 2014 (SCI-Expanded)
- XIV. **Novel 4-(2-(benzo[d]thiazol-2-yl)phenoxy) substituted phthalocyanine derivatives: Synthesis, electrochemical and in situ spectroelectrochemical characterization**  
Nas A., Kantekin H., Koca A.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.757, pp.62-71, 2014 (SCI-Expanded)
- XV. **The photophysical and photochemical properties of new unmetallated and metallated**

**phthalocyanines bearing four 5-chloroquinolin-8-yloxy substituents on peripheral sites**

Nas A., Demirbaş Ü., Piskin M., Durmus M., Kantekin H.

JOURNAL OF LUMINESCENCE, vol.145, pp.635-642, 2014 (SCI-Expanded)

- XVI. **The synthesis of novel unmetallated and metallated phthalocyanines including (E)-4-(3-cinnamoylphenoxy) groups at the peripheral positions and photophysical properties of their zinc phthalocyanine derivatives**  
Nas A., Kahrman N., Kantekin H., Yaylı N., Durmus M.  
DYES AND PIGMENTS, vol.99, no.1, pp.90-98, 2013 (SCI-Expanded)
- XVII. **Novel organosoluble metal-free and metallophthalocyanines bearing triazole moieties: Microwave assisted synthesis and determination of photophysical and photochemical properties**  
Nas A., Fandaklı S., Kantekin H., Demirbaş A., Durmus M.  
DYES AND PIGMENTS, vol.95, no.1, pp.8-17, 2012 (SCI-Expanded)
- XVIII. **Microwave-assisted synthesis and characterization of novel symmetrical substituted 19-membered tetrathiadiazza metal-free and metallophthalocyanines and investigation of their biological activities**  
Nas A., Kaya E. C., Kantekin H., Sokmen A., Cakır V.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.696, no.8, pp.1659-1663, 2011 (SCI-Expanded)
- XIX. **Synthesis and characterization of a new organo-soluble metal-free and metallophthalocyanines bearing flexible moieties**  
Nas A., Kantekin H.  
POLYHEDRON, vol.30, no.6, pp.1085-1090, 2011 (SCI-Expanded)
- XX. **Microwave-assisted synthesis and characterization of a new soluble metal-free and metallophthalocyanines peripherally fused to four 18-membered tetrathiadiazza macrocycles**  
Kantekin H., Dilber G., Nas A.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.695, no.8, pp.1210-1214, 2010 (SCI-Expanded)
- XXI. **The synthesis and characterization of a new (E,E)-dioxime containing 18-membered dithiadiazadioxamacrocyclic moieties and its mononuclear complexes**  
Kantekin H., Bakaray A., Biyiklioglu Z., Sağlam M. B.  
TRANSITION METAL CHEMISTRY, vol.33, no.2, pp.161-165, 2008 (SCI-Expanded)
- XXII. **The synthesis and characterization of a new (E,E)-dioxime containing 13-membered dithiadiazamacrocyclic moieties and its mononuclear complexes**  
Kantekin H., Bakaray A., Biyiklioglu Z.  
TRANSITION METAL CHEMISTRY, vol.32, no.2, pp.209-213, 2007 (SCI-Expanded)
- XXIII. **Synthesis and metal-ion binding properties of new N2S4O2- and N2S5O2-donor macrocycles**  
Kantekin H., Bakaray A., Ocak M., Alp H., Ocak U.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.42, no.14, pp.3243-3257, 2007 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Electrochemical properties of non-peripherally and peripherally tetra-[(1-benzylpiperidin-4-yl)oxy] substituted phthalocyanines**  
Nas A., Dilber G., Biyiklioğlu Z.  
Turkish Journal of Analytical Chemistry (Online), vol.5, no.2, pp.98-106, 2023 (Peer-Reviewed Journal)
- II. **Electroanalytical characterization of chloroquinoline substituted redox-active phthalocyanines**  
Nas A., Dilber G., Biyiklioğlu Z.  
Turkish Journal of Analytical Chemistry (Online), vol.5, no.1, pp.25-31, 2023 (Peer-Reviewed Journal)
- III. **New octa-benzothiazole substituted metal-free and metallophthalocyanines: Synthesis, characterization and electrochemical studies**  
Dilber G., Nas A., Biyiklioğlu Z.  
Turkish Journal of Analytical Chemistry (Online), vol.3, no.1, pp.33-38, 2021 (Peer-Reviewed Journal)

## Supported Projects

DİLBER G., DURMUŞ M., NAS A., Project Supported by Higher Education Institutions, KARBAZOL GRUBU İÇEREN YENİ FTALOSİYANİN BİLEŞİKLERİ VE BUNLARIN SUDA ÇÖZÜNÜR KUATERNİZE TÜREVLERİNİN FOTOFİZİKSEL VE FOTOKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ, 2020 - 2023

DİLBER G., BIYIKLIOĞLU Z., NAS A., Project Supported by Higher Education Institutions, Nonperiferal ve Periferal Pozisyonda Piperidin Grubu İçeren Yeni Ftalosiyanın Bileşiklerinin Sentezi ve Elektrokimyasal Özelliklerinin İncelenmesi, 2019 - 2022

NAS A., KOCA A., DİLBER G., Project Supported by Higher Education Institutions, REDOKS AKTİF MERKEZ İÇEREN PERİFERAL, NONPERİFERAL VE OKTA SÜBSTİTÜE FTALOSİYANİNLERİN ELEKTROKİMYASAL VE SPEKTROELEKTROKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ, 2020 - 2021

NAS A., DURMUŞ M., DİLBER G., Project Supported by Higher Education Institutions, Asimetrik Metalsiz ve Çinko Ftalosiyanın İstatistiksel Kondenzasyon Yöntemi Kullanılarak Sentezi Fotofiziksel ve Fotokimyasal Özelliklerinin İncelenmesi, 2019 - 2021

NAS A., DİLBER G., BIYIKLIOĞLU Z., Project Supported by Higher Education Institutions, Klorokinolin Sübstütie Grupları İçeren Redoks Aktif ve İnaktif Merkezli Ftalosiyanın Elektrokimyasal Özelliklerinin İncelenmesi, 2018 - 2019

NAS A., KANTEKİN H., BIYIKLIOĞLU Z., FANDAKLI S., Project Supported by Higher Education Institutions, TETRA PİRAZOL SÜBSTİTÜE GRUP İÇEREN METALLİ VE METALSİZ FTALOSİYANİNLERİN SENTEZİ KARAKTERİZASYONU VE ELEKTROKİMYASAL ÖZELLİKLERİNİN İNCELENMESİ, 2016 - 2017

## Scientific Refereeing

Current Organic Synthesis, SCI Journal, December 2019

Chemistry Select, SCI Journal, July 2019

Synthesis and Reactivity in Inorganic, Metal-Organic, and Nano-Metal Chemistry, SCI Journal, November 2018

Journal of Coordination Chemistry, SCI Journal, June 2018

Journal of Coordination Chemistry, SCI Journal, February 2018

Journal of Coordination Chemistry, SCI Journal, July 2017

Journal of Coordination Chemistry, SCI Journal, July 2017

Inorganic Chimica Acta, SCI Journal, May 2017

## Metrics

Publication: 51

Citation (WoS): 285

Citation (Scopus): 299

H-Index (WoS): 10

H-Index (Scopus): 10

## Congress and Symposium Activities

A Green Chemistry Approach with Microwave Synthesis for the Phthalocyanines Compounds, Attendee, Turkey, 2019

Comparison of Microwave Method with Conventional Method in the Synthesis of 4-(2-(benzo[d]thiazol-2-yl)phenoxy) Substituted Metallated and Unmetallated Phthalocyanines, Attendee, Turkey, 2019

An environmentally friendly synthesis method of 5-chloroquinolin-8-yloxy substituted phthalocyanines., Attendee, Antalya, Turkey, 2019

A Potential Method for Green Chemistry - Microwave Synthesis for the Phthalocyanines Compounds, Attendee, Turkey, 2019

Synthesis of Tetra(3-(1,5-diphenyl-4,5-dihydro-1H-pyrazol-3-yl)phenoxy) Substituted Metallated phthalocyanines by Conventional and Microwave Irradiation Method, Attendee, Antalya, Turkey, 2018

Okta 1,2,4-Triazol Sübstütü Çinko Ftalosiyenin: Sentez, Karakterizasyon, Fotofiziksel ve Fotokimyasal Davranışlarının İncelenmesi, Attendee, Turkey, 2016

Pirazol Sübstütü Grup İçeren Yeni Ftalosiyaninlerin Sentezi ve Agregasyon Özelliklerinin İncelenmesi, Attendee, Trabzon, Turkey, 2016

1,2,4-Triazol Sübstütü Grup İçeren Periferel Metalsiz, Kurşun ve Çinko Ftalosiyaninlerin Sentezi ve Yapısal Karakterizasyonları, Attendee, Turkey, 2016

1,2,3-Triazol Sübstütü Grup İçeren Periferel ve Non Periferel Çinko Ftalosiyaninlerin Fotofiziksel ve Fotokimyasal Davranışlarının İncelenmesi, Attendee, Mersin, Turkey, 2015

Okta-Benzotiyazol Sübstütü Grup İçeren Metalsiz ve Metalli Ftalosiyaninlerin Elektrokimyasal Davranışlarının İncelenmesi, Attendee, Mersin, Turkey, 2015

Fotodinamik Terapide Fotoduyarlaştırıcı Olarak Kullanılabilecek Biyoaktif Benzotiyazol Sübstütü Grubu İçeren Ftalosiyanin Türevlerinin Fotofiziksel ve Fotokimyasal Özelliklerinin İncelenmesi, Attendee, Antalya, Turkey, 2015

Oksadiazol Sübstütü Grubu İçeren Ftalosiyanin Türevlerinin Fotodinamik Terapide Fotoduyarlaştırıcı Olarak Kullanılabile Potansiyellerinin Değerlendirilmesi, Attendee, Antalya, Turkey, 2015

Novel 4-(2-(benzo[d]thiazol-2-yl)phenoxy) substituted phthalocyanine derivatives: Synthesis, electrochemical and in situ spectroelectrochemical characterization., Attendee, Trabzon, Turkey, 2013

The photophysical and photochemical properties of new unmetallated and metallated phthalocyanines bearing four 5-chloroquinolin-8-yloxy substituents on peripheral sites, Attendee, Trabzon, Turkey, 2013

Synthesis, electrochemical, in situ spectroelectrochemical and electrocolorimetric measurements of novel metal-free and metallophthalocyanines bearing oxadiazole groups at the peripheral positions, Attendee, Trabzon, Turkey, 2013

Kalkon grubu taşıyan yeni ftalosiyaninlerin sentezi ve karakterizasyonu, Attendee, Çanakkale, Turkey, 2011

Triazol sübstütü grubu içeren yeni metalsiz ve metalli ftalosiyaninlerin sentezi ve karakterizasyonu, Attendee, Çanakkale, Turkey, 2011

N2S4 türü makrosiklik grup taşıyan 19 üyeli yeni ftalosiyaninlerin mikrodalga yöntemi ile sentezi ve karakterizasyonu, Attendee, Çanakkale, Turkey, 2011

Yeni Bir Ftalosiyanin ve Metal Komplekslerinin Sentezi ve Karakterizasyonu, Attendee, Zonguldak, Turkey, 2010

Makrobisiklik Grup İçeren Yeni Bir (E,E)-Dioksim, Kompleks Bileşimlerinin Sentezi, Karakterizasyonu ve Ligandların Konformasyonel Analizlerinin İncelenmesi, Attendee, Zonguldak, Turkey, 2010

N2S2O2 türü makrosiklik grup taşıyan 18 üyeli yeni (E,E)-dioksim, metal komplekslerinin sentezi ve karakterizasyonu, Attendee, Elazığ, Turkey, 2009

Yeni çözünebilir bir ftalosiyaninin sentezi ve karakterizasyonu, Attendee, Mağusa, Turkey, 2008

N2S2 türü makrosiklik grup taşıyan yeni (E,E)-dioksim, metal komplekslerinin sentezi ve karakterizasyonu, Attendee, Adana, Turkey, 2007

Yeni N2S4 donörlü 19 üyeli makrosiklik ligandların sentezi, karakterizasyonu ve ekstraksiyon özelliklerinin incelenmesi, Attendee, Kayseri, Turkey, 2006

## Awards

NAS A., 2nd Poster Presentation Award / An environmentally friendly synthesis method of 5-chloroquinolin-8-yloxy substituted phthalocyanines, 2. Envirochem, November 2019