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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1992 - 1999

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya (YI), Turkey 1990 - 1992

Undergraduate, Marmara University, Ataturk Faculty of Education, Mathematics and Science Education, Turkey 1984 - 1988

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Natural Sciences

Academic Titles / Tasks

Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2019 - Continues

Associate Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2013 - 2019

Assistant Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2011 - 2013

Research Assistant, Marmara University, Faculty of Arts and Sciences, Chemistry, 2001 - 2011

Research Assistant, Marmara University, Ataturk Faculty of Education, Mathematics and Science Education, 1995 - 2001

Research Assistant, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, 1990 - 1995

Academic and Administrative Experience

Marmara University, Faculty of Arts and Sciences, Chemistry, 2012 - 2015

Advising Theses

ODABAŞ Z., Synthesis and characterization of metal free and metal phthalocyanines bearing thymol moieties derived from antimicrobial and antifungal terpenoids, Postgraduate, R.Atajanov(Student), 2020

ODABAŞ Z., Azo grubu ile halkaya bağlı 5,6,7,8-tetrahidronaftalenil türevi süstitüentleri içeren ftalosiyanın bileşiklerinin sentezi ve karakterizasyonu, Postgraduate, İ.Baykal(Student), 2019

ODABAŞ Z., Synthesis and characterization of novel oxo-and azo bridged phthalocyanines bearing isomeric phenylphenoxy groups, Doctorate, H.Elzien(Student), 2017

ODABAŞ Z., (2,3-dimetoksi)fenoksi grupları içeren alfa ve beta süstitüe metalli ve metallsiz ftalosiyanın bileşiklerinin sentezi ve karakterizasyonu, Postgraduate, B.Nur(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comparative examination of both spectral properties and hybrid solar cell application of 2,4,6-trimethoxyphenoxy substituted phthalocyanine dyes**
Küçükgenç Ö., Ağcaabat R., DUMLUĐAĞ F., ODABAŞ Z.
Polyhedron, vol.262, 2024 (SCI-Expanded)
- II. **Ball type (4-(tert-butyl)-1,2-phenylene)dimethanolate bridged dinuclear metallo phthalocyanines: Synthesis, characterization, electrochemistry, and in situ spectroelectrochemistry**
Şahin S., Akdağ Ö., ODABAŞ Z., ÖZKAYA A. R.
Polyhedron, vol.258, 2024 (SCI-Expanded)
- III. **Novel methoxyphenylthio-substituted phthalocyanines: synthesis, characterization, proton-transfer, and acid-sensing properties**
Ağcaabat R., Seslikaya C., FINDIK V., ERDEM S., ODABAŞ Z.
New Journal of Chemistry, vol.48, no.4, pp.1623-1633, 2024 (SCI-Expanded)
- IV. **Systematically investigation on the spectral, antioxidant and antibacterial properties of fragrant methyl benzoate esters containing electron withdrawing and electron releasing groups**
Alemdar A., Tan B., Toksöz O., Kurtuluş G., Sesal C., ODABAŞ Z.
Journal of Molecular Structure, vol.1291, 2023 (SCI-Expanded)
- V. **Electrochemical and In-situ spectroelectrochemical properties of novel mononuclear 2,4-di-tert-butyl-6-(3,4-dicyanophenoxy)phenolate substituted metallophthalocyanine compounds**
Şahin S., Kaniz T., Baturhan Orman E., ODABAŞ Z., ÖZKAYA A. R.
Polyhedron, vol.243, 2023 (SCI-Expanded)
- VI. **Electrochemical and In-situ exhibited spectroelectrochemical properties of novel 4,4'-(3,5-di-tert-butyl-1,2-phenylene)bis(oxy) substituted ball-type phthalocyanine compounds**
Şahin S., Kaniz T., ORMAN E. B., ODABAŞ Z., ÖZKAYA A. R.
Synthetic Metals, vol.297, 2023 (SCI-Expanded)
- VII. **Synthesis, characterization, photophysical, and photochemical properties of novel phthalocyanines containing thymoxy groups as bioactive units**
Atajanov R., Khezami K., Durmuş M., ODABAŞ Z.
Transition Metal Chemistry, vol.48, no.2, pp.79-89, 2023 (SCI-Expanded)
- VIII. **Electrochemical and in-situ spectroelectrochemical properties of novel (5-(tert-butyl)-2-((3,4-dicyanophenoxy)methyl)phenyl)methanolate substituted mononuclear metal phthalocyanines**
Şahin S., Akdağ Ö., ORMAN E. B., ODABAŞ Z., ÖZKAYA A. R.
Journal of Molecular Structure, vol.1276, 2023 (SCI-Expanded)
- IX. **Electrochemical, spectroelectrochemical, and electrocatalytic properties of novel soluble phthalocyanines containing peripheral thymoxy and chloride units**
Atajanov R., Huraibat B., ODABAŞ Z., ÖZKAYA A. R.
Inorganica Chimica Acta, vol.547, 2023 (SCI-Expanded)
- X. **Novel 2,6-dimethoxyphenoxy alpha substituted phthalocyaninato metal complexes: Electrochemistry, In situ spectroelectrochemistry and oxygen electrocatalysis**
ORMAN E. B., Yazar Z., PİŞKİN M., ODABAŞ Z., ÖZKAYA A. R.

SYNTHETIC METALS, vol.290, 2022 (SCI-Expanded)

- XI. **Synthesis and human monoamine oxidase inhibitory activity of novel C2-, C3-and C4-substituted phthalonitriles**
Ali H. E. A., Ozalp L., DANIŞ Ö., Odabas Z.
BIOORGANIC & MEDICINAL CHEMISTRY LETTERS, vol.74, 2022 (SCI-Expanded)
- XII. **The effect of the position of the trimethoxy groups as distant substituents on the spectral and acid sensing properties of phthalocyanines**
Agcaabat R., Senturk C. B., ODABAŞ Z.
POLYHEDRON, vol.222, 2022 (SCI-Expanded)
- XIII. **Electrochemical, Spectroelectrochemical, and Electrocatalytic Dioxide Reducing Properties of Peripheral Tetra-2,6-dimethoxyphenoxy Substituted Phthalocyanines**
ORMAN E. B., PİŞKİN M., ODABAŞ Z., ÖZKAYA A. R.
ELECTROANALYSIS, vol.33, no.11, pp.2310-2322, 2021 (SCI-Expanded)
- XIV. **Determination of photophysical, photochemical and spectroscopic properties of novel lead(II) phthalocyanines**
PİŞKİN M., ÖZTÜRK Ö. F., Odabas Z.
POLYHEDRON, vol.182, 2020 (SCI-Expanded)
- XV. **Toluene vapor sensing characteristics of novel copper(II), indium(III), mono-lutetium(III) and tin(IV) phthalocyanines substituted with 2,6-dimethoxyphenoxy bioactive moieties**
PİŞKİN M., CAN N., ODABAŞ Z., ALTINDAL A.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.22, pp.189-197, 2018 (SCI-Expanded)
- XVI. **High Electrochemical Versatility and Applicability with Metal Phthalocyanines Carrying Peripheral 2,3-dihydro-1H-inden-5-yloxy Substituents: Rich Redox Behavior, Oxygen Electrocatalysis and Electrochromism**
Orman E. B., Odaba Z., Özkaya A. R.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.165, no.9, 2018 (SCI-Expanded)
- XVII. **Do the positions of trimethyl groups on phthalocyanine photosensitizers improve their photochemical and photophysical properties?**
Cetinkaya M., PİŞKİN M., ALTUN S., ODABAŞ Z., DURMUŞ M.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.335, pp.17-25, 2017 (SCI-Expanded)
- XVIII. **First investigation on the photophysical and photochemical properties of azo-bridged phthalocyanine photosensitizers**
Sahin S., PİŞKİN M., ALTUN S., DURMUŞ M., ODABAŞ Z.
JOURNAL OF LUMINESCENCE, vol.180, pp.219-223, 2016 (SCI-Expanded)
- XIX. **Synthesis, characterization, photophysical, and photochemical properties of novel zinc(II) and indium(III) phthalocyanines containing 2-phenylphenoxy units**
Ali H. E. A., Piskin M., ALTUN S., DURMUŞ M., ODABAŞ Z.
JOURNAL OF LUMINESCENCE, vol.173, pp.113-119, 2016 (SCI-Expanded)
- XX. **The novel mesityloxy substituted metallo-phthalocyanine dyes with long fluorescence lifetimes and high singlet oxygen quantum yields**
Gurel E., PİŞKİN M., ALTUN S., ODABAŞ Z., Durmus M.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.315, pp.42-51, 2016 (SCI-Expanded)
- XXI. **Highly efficient dye-sensitized solar cells based on metal-free and copper(II) phthalocyanine bearing 2-phenylphenoxy moiety**
Ali H. E. A., ALTINDAL A., ALTUN S., ODABAŞ Z.
DYES AND PIGMENTS, vol.124, pp.180-187, 2016 (SCI-Expanded)
- XXII. **The effects of substituent position on kinetics of benzene vapour adsorption onto 3-phenylphenoxy substituted metal-free and metallo-phthalocyanines thin films**
Ali H. E. A., CAN N., ALTUN S., ODABAŞ Z.
DALTON TRANSACTIONS, vol.45, no.42, pp.16922-16930, 2016 (SCI-Expanded)
- XXIII. **Gas sensing and electrochemical properties of tetra and octa 2H-chromen-2-one substituted iron(II)**

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Altun S., Orman E. B., Odabaş Z., Altındal A., Özkaya A. R.

DALTON TRANSACTIONS, vol.44, pp.4341-4354, 2015 (SCI-Expanded)

- XXIV. **Synthesis of novel azo-bridged phthalocyanines and their toluene vapour sensing properties**
Sahin S., ALTUN S., ALTINDAL A., ODABAŞ Z.
SENSORS AND ACTUATORS B-CHEMICAL, vol.206, pp.601-608, 2015 (SCI-Expanded)
- XXV. **Synthesis, characterization and investigation of the photophysical and photochemical properties of highly soluble novel metal-free, zinc(II), and indium(III) phthalocyanines substituted with 2,3,6-trimethylphenoxy moieties**
Gurel E., PIŞKİN M., ALTUN S., ODABAŞ Z., DURMUŞ M.
DALTON TRANSACTIONS, vol.44, no.13, pp.6202-6211, 2015 (SCI-Expanded)
- XXVI. **Electrochemical, Electrocatalytic Dioxygen Reducing and Dielectric Relaxation Properties of Non-Peripheral Tetra-2,3-dihydro-1H-inden-5-yloxy Substituted Phthalocyanines**
Orman E. B., Altun S., Odabaş Z., Altındal A., Özkaya A. R.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.162, 2015 (SCI-Expanded)
- XXVII. **Dielectric properties and electronic absorption: a comparison of novel azo- and oxo-bridged phthalocyanines**
Yuzuak M. M., ALTUN S., ALTINDAL A., ODABAŞ Z.
DALTON TRANSACTIONS, vol.44, no.3, pp.1397-1405, 2015 (SCI-Expanded)
- XXVIII. **Coumarin-substituted manganese phthalocyanines: synthesis, characterization, photovoltaic behaviour, spectral and electrochemical properties**
ALTUN S., ODABAŞ Z., ALTINDAL A., ÖZKAYA A. R.
DALTON TRANSACTIONS, vol.43, no.21, pp.7987-7997, 2014 (SCI-Expanded)
- XXIX. **Novel alpha-7-oxy-4-(4-methoxyphenyl)-8-methylcoumarin substituted metal-free, Co(II) and Zn(II) phthalocyanines: Photochemistry, photophysics, conductance and electrochemistry**
ODABAŞ Z., ORMAN E. B., DURMUŞ M., DUMLUDAĞ F., ÖZKAYA A. R., Bulut M.
DYES AND PIGMENTS, vol.95, no.3, pp.540-552, 2012 (SCI-Expanded)
- XXX. **Synthesis, characterization and electrochemical properties of novel beta 7-oxy-4-(4-methoxyphenyl)-8-methylcoumarin substituted metal-free, Zn(II) and Co(II) phthalocyanines**
Odabaş Z., Kara H., Özkaya A. R., Bulut M.
POLYHEDRON, vol.39, pp.38-47, 2012 (SCI-Expanded)
- XXXI. **Synthesis, characterization and electrical properties of novel metal-free, Co(II), Cu(II), Fe(II), Mn(II), Sn(II) phthalocyanines peripherally tetra-substituted with 2,3-dihydro-1H-inden-5-yloxy moiety**
ODABAŞ Z., ALTINDAL A., Bulut M.
SYNTHETIC METALS, vol.161, pp.1742-1752, 2011 (SCI-Expanded)
- XXXII. **Synthesis and electrochemical, in situ spectroelectrochemical, electrical and gas sensing properties of ball-type homo- and hetero-dinuclear phthalocyanines with four [1a,8b-dihydronaphtho[b]naphthofuro[3,2-d]furan-7,10-diyl] bridges**
Odabaş Z., Koc I., Altındal A., Özkaya A. R., Salih B., Bekaroglu O.
SYNTHETIC METALS, vol.160, pp.967-977, 2010 (SCI-Expanded)
- XXXIII. **Novel ball-type homo- and hetero-dinuclear phthalocyanines with four 1,1'-methylene-dinaphthalen-2-ol bridges: Synthesis and characterization, electrical and gas sensing properties and electrocatalytic performance towards oxygen reduction**
ODABAŞ Z., Altındal A., ÖZKAYA A. R., SALİH B., Bekaroglu O.
SENSORS AND ACTUATORS B-CHEMICAL, vol.145, no.1, pp.355-366, 2010 (SCI-Expanded)
- XXXIV. **Novel homo- and heterobinuclear ball-type phthalocyanines: synthesis and electrochemical, electrical, EPR and MCD spectral properties**
ODABAŞ Z., DUMLUDAĞ F., ÖZKAYA A. R., Yamauchi S., Kobayashi N., Bekaroglu O.
DALTON TRANSACTIONS, vol.39, no.35, pp.8143-8152, 2010 (SCI-Expanded)
- XXXV. **Synthesis, characterization and electrical properties of novel mono- and cofacial bisphthalocyanines**

bridged with four [1a,8b-dihydronaphtho[b]naphthofuro[3,2-d]furan-7,10-diyl] units

Odabas Z., Altindal A., Salih B., Bulut M., Bekaroglu O.

TETRAHEDRON LETTERS, vol.48, no.36, pp.6326-6329, 2007 (SCI-Expanded)

XXXVI. **Synthesis, characterization, and electrochemical and electrical properties of novel mononuclear and binuclear ball-type Zn(II) phthalocyanines substituted with 1a,8b-dihydronaphtho[b]naphthofuro-[3,2-d]furan-7,10-diyl**

Odabas Z., Altindal A., Oezkaya A. R., Bulut M., Salih B., Bekaroglu O.

POLYHEDRON, vol.26, no.14, pp.3505-3512, 2007 (SCI-Expanded)

XXXVII. **Synthesis, characterization, and electrochemical, spectroelectrochemical and electrical measurements of novel ball-type four 1,1 '-methylenedinaphthalen-2-ol bridged metal-free, zinc(II) and cobalt(II), and metal-free clamshell phthalocyanines**

Odabas Z., Altindal A., Ozkaya A. R., Bulut M., Salih B., Bekaroglu O.

POLYHEDRON, vol.26, no.3, pp.695-707, 2007 (SCI-Expanded)

XXXVIII. **Synthesis of dinaphthofuranofuran and dinaphthopyranopyran derivatives**

Odabas Z., Talinli N.

HETEROCYCLIC COMMUNICATIONS, vol.6, no.5, pp.437-442, 2000 (SCI-Expanded)

Articles Published in Other Journals

- I. **Synthesis, spectroscopy, and photophysical properties of newly magnesium (II) phthalocyanine**
PIŞKİN M., ÖZTÜRK Ö. F., ODABAŞ Z.
MANAS Journal of Engineering, vol.9, pp.58-64, 2021 (Peer-Reviewed Journal)
- II. **Newly Soluble and Non-Aggregated Copper(II) and Tin(II) Phthalocyanines: Synthesis, Characterization and Investigation of Photophysical and Photochemical-Responsive**
PIŞKİN M., ÖZTÜRK Ö. F., ODABAŞ Z.
Karaelmas Fen ve Mühendislik Dergisi, vol.7, no.2, pp.627-637, 2017 (Peer-Reviewed Journal)
- III. **Synthesis Characterization and Spectroscopic Properties of Novel Mono Lutetium In Phthalocyanines**
PIŞKİN M., ODABAŞ Z.
Karaelmas Fen ve Mühendislik Dergisi, vol.6, no.2, pp.307-314, 2016 (Peer-Reviewed Journal)
- IV. **Gas sensing Properties of bis-Phthalocyanine Thin Film**
Dumludağ F., Kılıç P., Odabaş Z., Altindal A., Bekaroğlu Ö.
American Institute of Physics, vol.1203, pp.542-546, 2010 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Organik Kimya Video Çözümlü Soru Bankası Web Tabanlı e kitap**
ODABAŞ Z., ÇÖMEK A., ALTUN S.
Boğaziçi Yayınları, İstanbul, 2016
- II. **Organik Kimya Video Çözümlü Soru Bankası**
ODABAŞ Z., ALTUN S., ÇÖMEK A.
Boğaziçi Yayınları, İstanbul, 2016

Refereed Congress / Symposium Publications in Proceedings

- I. **Electrochemical, Spectroelectrochemical and Electrocatalytic Properties of Thiobis-naphthol Substituted Metallophthalocyanine Complexes**
Cengiz E. Ş., Akdağ Ö., Zayin Ö., Orman E. B., Odabaş Z., Özkaya A. R.
9Th International Conference On Materials Science And Nanotechnology For Next Generation, Ankara, Turkey, 22

- 24 September 2022, pp.164-165

- II. **Electrochemical, Spectroelectrochemical and Electrocatalytic Properties of Ball-Type Thiobis Naphthalen Bridged Metallophthalocyanine Complexes**
Cengiz E. Ş., Akdağ Ö., Zayin Ö., Orman E. B., Odabaş Z., Özkaya A. R.
9Th International Conference On Materials Science And Nanotechnology For Next Generation, Ankara, Turkey, 24 - 26 October 2022, pp.161
- III. **Electrochemical and electrocatalytic oxygen reducing properties of metal phthalocyanines involving tertiary butyl and Oxo Bridging Groups**
Kaniz T., Orman E. B., Şahin S., Odabaş Z., Özkaya A. R.
13th International Congress on Electrochemistry, Barcelona, Spain, 27 - 29 May 2019, pp.25
- IV. **Electrochemical, Spectroelectrochemical, Electrocolorimetric, and Electrocatalytic Properties of New Metal Phthalocyanine Compounds**
Huraibat B., Atajanov R., Orman E. B., Odabaş Z., Özkaya A. R.
1st International Balkan Chemistry Congress, Edirne, Turkey, 17 - 21 September 2018, pp.264
- V. **COMPARATIVE ELECTROCHEMISTRY OF NON-PERIPHERAL AND PERIPHERAL TETRA-2,3-DIHYDRO-1H-INDEN-5-YLOXY SUBSTITUTED PHTHALOCYANINES**
Orman E. B., Odabaş Z., Özkaya A. R.
1st International Balkan Chemistry Congress, Edirne, Turkey, 17 - 19 September 2018, pp.249
- VI. **VOLTAMMETRIC AND SPECTROELECTROCHEMICAL BEHAVIOR OF NOVEL OCTA SUBSTITUTED METALLOPHTHALOCYANINES**
Orman E. B., Huraibat B., Atajanov R., Odabaş Z., Özkaya A. R.
12th International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 26 - 29 June 2018, pp.237
- VII. **4-HİDROKSİ-3,5-DİMETOKSİFENİL VE 3,4,5-TRİMETOKSİFENİL GRUPLARI İÇEREN 3-DİAZOFTALONİTRİL BİLEŞİKLERİNİN SENTEZİ VE KARAKTERİZASYONU**
Şahin S., ODABAŞ Z.
29.Ulusal Kimya Kongresi, Ankara, Turkey, 10 - 14 September 2017
- VIII. **Electrochemical, Spectroelectrochemical, Electrocolorimetric, and Electrocatalytic Properties of Metal Phthalocyanine Compounds**
ÖZKAYA A. R., ORMAN E. B., ODABAŞ Z., KOCA A.
68th Annual Meeting of the International Society of Electrochemistry, 27 August - 01 September 2017
- IX. **3 4 5 TRİMETOKSİFENOKSİ GRUPLARI İÇEREN ALFA VE BETA SÜBSTİTÜEÇİNKO VE METALSİZ FTALOSİYANİN BİLEŞİKLERİNİN SENTEZİ VEKARAKTERİZASYONU**
Bilen C., ODABAŞ Z., ÇETİN A.
28. Ulusal Kimya Kongresi, Mersin, Turkey, 15 - 21 August 2016
- X. **5 6 7 8 TETRAHİDRO 2 NAFTOKSİ GRUPLARI İÇEREN ALFA VE BETASÜBSTİTÜE METALLİ VE METALSİZ FTALOSİYANİN BİLEŞİKLERİNİNSENTEZİ VE KARAKTERİZASYONLARI**
Eren G., ODABAŞ Z., ALTUN S.
III. Ulusal Organik Kimya Kongresi, Trabzon, Turkey, 5 - 08 September 2016
- XI. **Inhibition of Human Monoamine Oxidase by C3 and C4 Substitued Phthalonitriles**
Danış Ö., Ali H., Yüce Dursun B., Altun S., Odabas Z.
28.Ulusal Kimya Kongresi, Çanakkale, Turkey, 18 - 21 August 2016
- XII. **Metallophthalocyanine C Nafion Composites for Electrocatalysis of Oxygen Reduction**
Yazar Z., Pişkin M., Odabaş Z., Özkaya A. R.
229th ECS Meeting, California, United States Of America, 29 June - 03 July 2016, pp.20
- XIII. **Redox Properties and Electrocatalytic Oxygen Reducing Performances of Various Novel Metal Phthalocyanines**
Yazar Z., Pişkin M., Odabaş Z., Özkaya A. R.
66th Annual Meeting of the International Electrochemistry Society, Taipei, Taiwan, 4 - 09 October 2015, pp.25
- XIV. **Gas sensing properties of bis-phthalocyanine thin film**
DUMLUDAĞ F., Kilic P., ODABAŞ Z., Altındal A., Bekaroglu O.
7th International Conference of the Balkan Physical Union, Alexandroupoli, Greece, 9 - 13 September 2009,

vol.1203, pp.542-546

XV. Gas Sensing Properties of bis-Phthalocanine Thin Film

Dumludağ F., Kilic P., Odabaş Z., Altındal A., Bekaroglu O.

7th International Conference of the Balkan-Physical-Union, Alexandroupoli, Greece, 9 - 13 September 2009,

vol.1203, pp.542-543

Supported Projects

Odabaş Z., Project Supported by Higher Education Institutions, 1,1'-tiyobis(naftalen-2-oksi) grubu içeren diftalonitril bileşiklerinden metalli ve metallsiz ftalosiyanimlerin sentezi ve karakterizasyonu, 2019 - 2022

Özkaya A. R., Odabaş Z., Orman E. B., TUBITAK Project, Değişik Köprü Uzunluğuna Sahip Yeni Top Tipi Dinükleer Metal Ftalosiyanim Komplekslerinin Sentezi ve Elektrokimyasal Pil Sistemleri İçin Katalitik Özelliklerinin İncelenmesi, 2018 - 2020

Odabaş Z., Project Supported by Higher Education Institutions, Synthesis and characterization of metallo and metal-free phthalocyanines from thymol and its derivatives, which are antimicrobial and antifungal terpenoids., 2018 - 2020

Özkaya A. R., Özer M., Odabaş Z., Orman E. B., Project Supported by Higher Education Institutions, Çinko-Hava Pilleri İçin Modifiye Elektrot Geliştirilmesi ve Pil Performanslarının İncelenmesi, 2015 - 2018

Özkaya A. R., Bulut M., Odabaş Z., Özer M., TUBITAK Project, Ftalosiyanim Komplekslerinin Oksijen İndirgenmesindeki Elektrokatalitik Aktivitelerinin Yakıt Pillerinde Uygulanabilirlik Yönünden İncelenmesi, 2008 - 2010

Bulut M., Özkaya A. R., Odabaş Z., TUBITAK Project, Kumarin ve Kumarin Taç Eter Grupları İçeren Yeni Ftalosiyanimlerin Sentezi ve Özelliklerinin Araştırılması, 2007 - 2009

Bulut M., Özkaya A. R., Altındal A., Özer M., Odabaş Z., Salan Ü., Project Supported by Other Official Institutions, Yeni Tip Metallsiz ve Çeşitli Transition ve Lantanit Serisi Metalli Ftalosiyanimlerin Sentezi Yapısal Karakterizasyonu ve Bunların Elektriksel Elektrokimyasal ve Gaz Sensör Özellikleri, 2005 - 2007

Metrics

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