

Prof. ALI RIZA ÖZKAYA

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Biography

Prof. Dr. Ali Rıza ÖZKAYA graduated from Marmara University Atatürk Education Faculty Chemistry Teaching Department in 1984 and started working as a research assistant in the same department in 1985. He graduated from Marmara University, Institute of Applied Sciences and Technologies, Chemistry Master and Doctorate Programs, in 1986 and 1990, respectively. He worked as a research assistant at Ataturk Faculty of Education between 1985-1992, assistant professor between 1992-1998 and associate professor between 1998-2001. He started to work in Marmara University, Faculty of Arts and Sciences, Department of Chemistry in 2001 and became physical chemistry professor in 2005, and still continues this position. He served as Deputy Head of Chemistry Department between 2001-2009 and Head of Chemistry Department between 2012-2015. Since 2013, he has been serving as the Head of the Physical Chemistry Department and Head of the Physical Chemistry Program. In the Marmara University Electrochemistry Research Laboratory, which was founded by professor Özkaya in 2012 and developed with the projects supported by TÜBİTAK and Marmara University Scientific Research Projects Committee, electrochemistry of phthalocyanine compounds, electrocatalysis, electrochromism, electrochemical sensors, electrochemical energy conversion and storage, and electrochemical cell/battery systems are among the ongoing research topics. Prof.Dr. Ali Rıza ÖZKAYA has an H-index of 32 with over 110 articles published in journals covered by the Scientific Citation Index, SCI. Due to these scientific studies, he was elected to full membership of Turkish Academy of Sciences by suggestion of the Scientific and Technological Research Council of Turkey.

Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Kimya (Dr), Turkey 1986 - 1990

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Kimya (YI) (Tezli), Turkey 1984 - 1986

Undergraduate, Marmara University, Ataturk Faculty of Education, Mathematics and Science Education, Turkey 1980 - 1984

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, Taç eterli salisilaldiminin Ni(II) ve Co(II) komplekslerinin çeşitli çözücü ortamlarındaki polarografik davranışlarının incelenmesi, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Kimya (Dr), 1990

Postgraduate, Kolemanit ve uleksitin bazı çözücülerdeki çözünürlüğüne iki değerli tuz ve çözücü konsantrasyonlarının etkileri, Marmara Üniversitesi, Institute for Graduate Studies in Pure and Applied Sciences, Kimya (YI) (Tezli), 1986

Research Areas

Chemistry, Physical Chemistry, Electrochemistry, Natural Sciences

Academic Titles / Tasks

Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2005 - Continues

Associate Professor, Marmara University, Ataturk Faculty of Education, Mathematics and Science Education, 1998 - 2005

Assistant Professor, Marmara University, Ataturk Faculty of Education, Mathematics and Science Education, 1992 - 1998

Research Assistant, Marmara University, Ataturk Faculty of Education, Mathematics and Science Education, 1985 - 1992

Academic and Administrative Experience

Marmara University, Faculty of Arts and Sciences, Chemistry, 2013 - Continues

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

Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Kimya (Dr), 2012 - 2015

Marmara University, Faculty of Arts and Sciences, Chemistry, 2001 - 2007

Courses

Chemical Thermodynamics, Undergraduate, 2019 - 2020

Electroanalytical Chemistry I, Postgraduate, 2019 - 2020

Scientific Project-Article Writing-Publishing Principles and Stages, Postgraduate, 2019 - 2020

Electrochemistry of Organic Compounds I, Postgraduate, 2019 - 2020

Research-Development and Innovation, Undergraduate, 2019 - 2020

Conceptual Understanding and Misconceptions in Chemistry, Undergraduate, 2019 - 2020

Electroanalytical Chemistry II, Postgraduate, 2019 - 2020

Advising Theses

Koca A., ÖZKAYA A. R., GRAFEN-HETEROATOM TEMELLİ KATALİZÖRLERİN SENTEZİ, KARAKTERİZASYONU VE HİDROJEN ÜRETİMİNDE KULLANIMI, Doctorate, D.AKYÜZ(Student), 2019

Özkaya A. R., 1,1'-tiyobis(2-naftol) grupları taşıyan ftalosiyanın bileşiklerinin elektrokimyasal spektroeletrokimyasal ve elektrokatalitik incelenmesi, Postgraduate, S.ARUCU(Student), 2019

Koca A., Özkaya A. R., Metalliftalosiyanın temelli iletken redoks aktif polimerlerin geliştirilmesi ve elektrokimyasal pestisit sensörü olarak kullanımları, Postgraduate, Ü.ERGİN(Student), 2018

Özkaya A. R., Farklı metal merkezleri içeren tetrakloro tetratimol ftalosiyanın bileşiklerinin elektrokimyasal spektroeletrokimyasal ve elektrokatalitik incelenmesi, Postgraduate, B.HURAIBAT(Student), 2018

Özkaya A. R., Değişik ftalosiyanın komplekslerinin elektrokimyasal karakterizasyonu, elektrokatalitik ve elektrokromik uygulamaları, Doctorate, E.BATURHAN(Student), 2017

ÖZKAYA A. R., Ftalosiyanın elektrokimyasal davranışlarının eş zamanlı uv-vis spektroskopi ve elektrokolorimetri destekli olarak incelenmesi : Investigation of phthalocyanine electrochemical behaviours with in situ uv-vis spectroscopy and electrocolorimetry supports, Z.Yazar(Student), 2016

Özkaya A. R., Ftalosiyanın elektrokimyasal davranışlarının eş zamanlı UV-vis spektroskopi ve elektrokolorimetri destekli olarak incelenmesi, Postgraduate, Z.YAZAR(Student), 2016

Özkaya A. R., Ftalosiyanın redoks davranışlarının eş zamanlı spektroeletrokimya destekli olarak voltametrik incelenmesi, Postgraduate, G.DEDE(Student), 2015

KOCA A., ÖZKAYA A. R., Elektrokatalitik hidrojen üretimi, Postgraduate, D.AKYÜZ(Student), 2015

Özkaya A. R., Bulut M., Triazol fonksiyonel grubu içeren metali ve metalsiz ftalosiyanın bileşiklerinin sentezi, karakterizasyonu ve elektrokimyasal özelliklerinin incelenmesi, Postgraduate, B.YARDIMCI(Student), 2014

Özkaya A. R., Bir grup ftalosiyanın bileşiğinin redoks davranışlarının elektrokimyasal ve spektroeletrokimyasal yöntemlerle incelenmesi, Postgraduate, H.KARA(Student), 2013

Özkaya A. R., Değişik metal merkezli ftalosiyanın komplekslerinin redoks davranışlarının ve oksijen indirgenmesindeki katalitik aktivitelerinin elektroanalitik yöntemlerle incelenmesi, Postgraduate, İ.KOÇ(Student), 2012

Özkaya A. R., Bulut M., 4-hidroksi-3-metoksibenzoik asit türevi ftalosiyanın bileşiklerinin sentezi ve karakterizasyonu, Postgraduate, G.ÖZGÜL(Student), 2012

Özkaya A. R., Bulut M., 2,9,16,23-tetrakis-(4-fenoksiasetik asit) ftalosiyanın bazı aldehitlerle reaksiyonu ve ürünlerin karakterizasyonu, Postgraduate, B.ERSOY(Student), 2011

Özkaya A. R., Bulut M., 7-(okso)-3-(2-kloro-4-florofenil) kumarin süstitüentleri içeren metali ve metalsiz ftalosiyanın bileşiklerinin sentezi ve karakterizasyonu, Postgraduate, A.ALEMDAR(Student), 2009

Özkaya A. R., Taç eterli bir salisilaldimin schiff bazının 2nII ve CDII ile kompleks oluşum dengelerinin potansiyometrik yöntemle incelenmesi, Postgraduate, H.GÖRGEÇ(Student), 2002

ÖZKAYA A. R., Taç eterli bir salisilaldimin şif bazının Zn (II) ve Cd (II) ile kompleks oluşum dengelerinin potansiyometrik yöntemle incelenmesi, Postgraduate, H.Görgeç(Student), 2002

Özkaya A. R., Bakır, kurşun ve serbest ftalosiyanın komplekslerinin elektrokimyasal redüksiyon ve oksidasyonlarının incelenmesi, Doctorate, İ.ÇİNÇE(Student), 2000

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The novel double-decker lanthanide metal phthalocyanines substituted with 1-[3,5-bis (trifluoromethyl)phenyl] propoxyl: Synthesis, characterization, electrochemistry, spectroelectrochemistry, and electrochromism**
Karacan M., Koçyiğit N., Akdağ Ö., ÖZER M., ÖZKAYA A. R.
Journal of Molecular Structure, vol.1325, 2025 (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. **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)
- IV. **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)

- V. **Design of novel metal chalcogenide photoanodes supported with reduced graphene oxide for improvement of photoelectrochemical hydrogen evolution**
Neli Ö., BUDAK Ö., KARACA ALBAYRAK F., KESKİN B., ÖZKAYA A. R., KOCA A.
Journal of Photochemistry and Photobiology A: Chemistry, vol.440, 2023 (SCI-Expanded)
- VI. **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)
- VII. **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)
- VIII. **Tetrahydroxyphthalocyanine as a potential nonlinear optical material**
Işık Büyükeksi S., ORMAN E. B., KARATAY A., Selçuki N. A., ÖZKAYA A. R., ELMALI A., SALİH B., Şengül A.
Journal of Molecular Structure, vol.1271, 2023 (SCI-Expanded)
- IX. **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)
- X. **Electrochemical, spectroelectrochemical, electrocatalytic oxygen reducing, and heavy metal ion sensing properties of novel tetrakis-[4-((2, 8-bis (trifluoromethyl) quinolin-4-yl) oxy)] substituted metallophthalocyanines**
Daban N., ORMAN E. B., Meyancı L., ALTINDAL A., ÖZER M., ÖZKAYA A. R.
Journal of Molecular Structure, vol.1250, 2022 (SCI-Expanded)
- XI. **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)
- XII. **Solar-hydrogen production with reduced graphene oxide supported CdxZn1-xS photocatalysts**
Tanişik İ., UĞUZ Ö., Akyüz D., Zunain Ayaz R. M., SARIOĞLU C., Karaca F., ÖZKAYA A. R., KOCA A.
International Journal of Hydrogen Energy, vol.45, no.60, pp.34845-34856, 2020 (SCI-Expanded)
- XIII. **Photoelectrochemical performance of thermally sulfurized CdxZn1-xS photoanode: Enhancement with reduced graphene oxide support**
Zunain Ayaz R., Akyüz D., UĞUZ Ö., Tanşık İ., SARIOĞLU C., Karaca F., ÖZKAYA A. R., KOCA A.
RENEWABLE ENERGY, vol.162, pp.182-195, 2020 (SCI-Expanded)
- XIV. **A novel AB(3)-type trimeric zinc(II)-phthalocyanine as an electrochromic and optical limiting material**
Buyukeksi S. I., KARATAY A., ORMAN E. B., AÇAR SELÇUKİ N., ÖZKAYA A. R., SALİH B., ELMALI A., ŞENGÜL A.
DALTON TRANSACTIONS, vol.49, no.40, pp.14068-14080, 2020 (SCI-Expanded)
- XV. **Photocatalytic and photoelectrochemical performances of Mo, Ni and Cu decorated metal chalcogenides**
Akyuz D., ÖZKAYA A. R., KOCA A.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.116, 2020 (SCI-Expanded)
- XVI. **Novel peripherally substituted metal-free, zinc (II), and cobalt (II) phthalocyanines with 1,1'-thiobis(2-naphthol) and additional tetraphthalonitrile groups: Synthesis, aggregation behavior, electrochemical redox and electrocatalytic oxygen reducing properties**
ORMAN E. B., SAĞLAM M. B., ÖZKAYA A. R.
SYNTHETIC METALS, vol.263, 2020 (SCI-Expanded)
- XVII. **Low symmetry solitaire- and trans-functional porphyrazine/phthalocyanine hybrid complexes: Synthesis, isolation, characterization, and electrochemical and in-situ spectroelectrochemical properties**

- Guzel E., YARAŞIR M. N., ÖZKAYA A. R.
SYNTHETIC METALS, vol.262, 2020 (SCI-Expanded)
- XVIII. **Electrochemical, spectroelectrochemical and electrocatalytic properties of newly synthesized phthalocyanine compounds with 1,1'-thiobis(2-naphthol) groups**
Arucu S., Sağlam M. B., Özkaya A. R.
JOURNAL OF MOLECULAR STRUCTURE, vol.1198, 2019 (SCI-Expanded)
- XIX. **Enhanced hydrogen production with photo-induced phase transformation and cocatalyst loading**
Akyüz D., Özkaya A. R., Koca A.
International Journal of Energy Research, vol.43, no.14, pp.8299-8313, 2019 (SCI-Expanded)
- XX. **Metal chalcogenide based photocatalysts decorated with heteroatom doped reduced graphene oxide for photocatalytic and photoelectrochemical hydrogen production**
Akyüz D., Zunain Ayaz R. M., Yılmaz S., UĞUZ Ö., SARIOĞLU C., Karaca F., ÖZKAYA A. R., KOCA A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.34, pp.18836-18847, 2019 (SCI-Expanded)
- XXI. **Spectroscopic, electrochemical and electrocolorimetric properties of novel 2-(2'-pyridyl)-1H-benzimidazole appended bay-substituted perylene diimide triads**
Pekdemir F., ORMAN E. B., Selcuki N. A., ÖZKAYA A. R., SALİH B., Sengul A.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.379, pp.54-62, 2019 (SCI-Expanded)
- XXII. **Comparative Electrochemistry and Electrochromic Application of Novel Binuclear Double-Decker Rare Earth Metal Phthalocyanines Bearing 4-(hydroxyethyl)phenoxy Moieties**
Guzel E., ORMAN E. B., Koksoy B., ÇELİKBIÇAK Ö., Bulut M., ÖZKAYA A. R.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.166, no.10, 2019 (SCI-Expanded)
- XXIII. **Electrochemical, photovoltaic and DFT studies on hybrid materials based on supramolecular self-assembly of a ditopic twisted perylene diimide with square-planar platinum(II)- and/or palladium(II)-2,2':6',2''-terpyridyl complex ions**
Buyukeksi S. I., ORMAN E. B., AÇAR SELÇUKİ N., ALTINDAL A., ÖZKAYA A. R., ŞENGÜL A.
DYES AND PIGMENTS, vol.161, pp.66-78, 2019 (SCI-Expanded)
- XXIV. **Synthesis, characterization, and electrochemical and in-situ spectroelectrochemical properties of novel peripherally and non-peripherally 7-oxy-3-(3,4-dimethoxyphenyl) coumarin substituted phthalocyanines**
Feridun S. G., ORMAN E. B., SALAN Ü., ÖZKAYA A. R., Bulut M.
DYES AND PIGMENTS, vol.160, pp.315-327, 2019 (SCI-Expanded)
- XXV. **Synthesis, characterization, crystal structure, electrochemical studies and biological evaluation of metal complexes with thiosemicarbazone of glyoxylic acid**
Huseynova M., Taslimi P., Medjidov A., Farzaliyev V., Aliyeva M., Gondolova G., Şahin O., Yalçın B., Sujayev A., Orman E. B., et al.
POLYHEDRON, vol.155, pp.25-33, 2018 (SCI-Expanded)
- XXVI. **Novel tetrakis 4-(hydroxymethyl)-2,6-dimethoxyphenoxy substituted metallophthalocyanines: Synthesis, electrochemical redox, electrocatalytic oxygen reducing, and volatile organic compounds sensing and adsorption properties**
Gunay I., Orman E. B., Altındal A., Salih B., Özer M., Özkaya A. R.
DYES AND PIGMENTS, vol.154, pp.172-187, 2018 (SCI-Expanded)
- XXVII. **Spectroscopic, electrochemical and photovoltaic properties of Pt(II) and Pd(II) complexes of a chelating 1,10-phenanthroline appended perylene diimide**
Buyukeksi S. I., ŞENGÜL A., ERDÖNMEZ S., ALTINDAL A., ORMAN E. B., ÖZKAYA A. R.
DALTON TRANSACTIONS, vol.47, no.8, pp.2549-2560, 2018 (SCI-Expanded)
- XXVIII. **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)
- XXIX. **Synthesis, characterization and electrochemical properties of novel pyridine phthalocyanine**

derivatives

Mizrak B., ORMAN E. B., ABDURRAHMANOĞLU Ş., ÖZKAYA A. R.

JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.22, pp.243-249, 2018 (SCI-Expanded)

- XXX. **Novel peripherally and non-peripherally 6-oxyflavone substituted metal-free, zinc(II) and cobalt(II) phthalocyanines: Electrochemical and in situ spectroelectrochemical properties**
Aribal A., ORMAN E. B., SALAN Ü., ÖZKAYA A. R., Bulut M.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.22, pp.279-290, 2018 (SCI-Expanded)
- XXXI. **Electrochemical and photovoltaic studies on water soluble triads: Metallo-supramolecular self-assembly of ditopic bis(imidazole) perylene diimide with platinum(II)-, and palladium(II)-2,2':6',2''-terpyridyl complex ions**
Buyukeksi S. I., ORMAN E. B., ŞENGÜL A., ALTINDAL A., ÖZKAYA A. R.
DYES AND PIGMENTS, vol.144, pp.190-202, 2017 (SCI-Expanded)
- XXXII. **Redox-Switchable New Phthalocyanines Containing Hydrazono-Thiazole-Carboxylate Fragments: Synthesis, Electrochemical, Spectroelectrochemical and Electrocolorimetric Investigation**
DEĞİRMENCİOĞLU İ., ER M., BAYRAK R., ÖZKAYA A. R.
JOURNAL OF FLUORESCENCE, vol.27, no.3, pp.869-881, 2017 (SCI-Expanded)
- XXXIII. **Electrocatalytic Activity of Novel Ball-Type Metallophthalocyanines with Trifluoro Methyl Linkages in Oxygen Reduction Reaction and Application as Zn-Air Battery Cathode Catalyst**
Kocyigit N., Ozen U. E., Özer M., Salih B., Özkaya A. R., Bekaroglu O.
ELECTROCHIMICA ACTA, vol.233, pp.237-248, 2017 (SCI-Expanded)
- XXXIV. **Synthesis, characterization and electrochemical properties of tetra 7-oxy-3-biphenylcoumarin substituted metal-free, zinc(II), cobalt(II) and indium(III) phthalocyanines**
Gok A., ORMAN E. B., SALAN Ü., ÖZKAYA A. R., Bulut M.
DYES AND PIGMENTS, vol.133, pp.311-323, 2016 (SCI-Expanded)
- XXXV. **Novel 4,4'-{(diphenylmethylene) bis(4,1-phenylene)bis(oxy)}-bridged ball-type phthalocyanines: Electrochemical, electrocatalytic oxygen reducing and heavy metals ions sensing properties**
Dogan E., ÖZER M., ALTINDAL A., ÖZKAYA A. R., SALİH B., Bekaroglu O.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.20, pp.1319-1333, 2016 (SCI-Expanded)
- XXXVI. **Electrochemical and in situ spectroelectrochemical properties of metal-free and metallophthalocyanines containing alpha-naphtholbenzene groups on the peripheral positions**
SAĞLAM M. B., ÖZKAYA A. R.
TRANSITION METAL CHEMISTRY, vol.41, no.5, pp.605-612, 2016 (SCI-Expanded)
- XXXVII. **Electropolymerization and Electrochemical Pesticide Sensor Application of Metallophthalocyanines Bearing Polymerizable Morpholin Groups**
Ozen U. E., Keleş T., Büyüklüoğlu Z., Koca A., Özkaya A. R.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.163, 2016 (SCI-Expanded)
- XXXVIII. **Mono and Double-Decker Lutetium Phthalocyanines Bearing Iodine Groups: Electrochemical and Electrochromic Properties**
Koksoy B., ORMAN E. B., Kuruca H., Bulut M., DURMUŞ M., ÖZKAYA A. R.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.163, no.10, 2016 (SCI-Expanded)
- XXXIX. **Communication-High-Performance and Non-Precious Bifunctional Oxygen Electrocatalysis with Binuclear Ball-Type Phthalocyanine Based Complexes for Zinc-Air Batteries**
Ozen U. E., Dogan E., Özer M., Bekaroglu O., Özkaya A. R.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.163, 2016 (SCI-Expanded)
- XL. **Electrocatalytic hydrogen evolution reaction with metallophthalocyanines modified with click electrochemistry**
Akyuz D., Dincer H., ÖZKAYA A. R., KOCA A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.38, pp.12973-12984, 2015 (SCI-Expanded)
- XLI. **Synthesis, electrochemistry and In situ spectroelectrochemistry of novel tetra dimethyl 5-oxyisophthalate substituted Co(II), Mn(III), and mu-oxo-dimer Fe(III) phthalocyanines**
Koksoy B., Soyer O., ORMAN E. B., ÖZKAYA A. R., Bulut M.

- DYES AND PIGMENTS, vol.118, pp.166-175, 2015 (SCI-Expanded)
- XLII. **Synthesis, characterization and comparative electrochemistry of beta and alpha tetra-[4-oxy-3-methoxybenzoic acid]-substituted Zn(II), Co(II) and Cu(II) phthalocyanines**
Ozgul G., Tastemel A., Özkaya A. R., Bulut M.
POLYHEDRON, vol.85, pp.181-189, 2015 (SCI-Expanded)
- XLIII. **A conformationally stressed novel ball-type perylene-diimide appended zinc(II) phthalocyanine hybrid: spectroelectrochemical, electrocolorimetric and photovoltaic properties**
Pekdemir F., Kurnali S., Şengül A., Altındal A., Özkaya A. R., Salih B., Bekaroglu O.
DALTON TRANSACTIONS, vol.44, pp.158-166, 2015 (SCI-Expanded)
- XLIV. **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)
- XLV. **Gas sensing and electrochemical properties of tetra and octa 2H-chromen-2-one substituted iron(II) phthalocyanines**
Altun S., Orman E. B., Odabaş Z., Altındal A., Özkaya A. R.
DALTON TRANSACTIONS, vol.44, pp.4341-4354, 2015 (SCI-Expanded)
- XLVI. **Synthesis, characterization, electrochemistry and VOC sensing properties of novel ball-type dinuclear metallophthalocyanines**
Çimen Y., Ermis E., Dumludağ F., Özkaya A. R., Salih B., Bekaroglu O.
SENSORS AND ACTUATORS B-CHEMICAL, vol.202, pp.1137-1147, 2014 (SCI-Expanded)
- XLVII. **Ag(I) and Pd(II) sensing, H- or J-aggregation and redox properties of metal-free, manganese(III) and gallium(III) phthalocyanines**
GÜNSEL A., BİLGİÇLİ A. T., KANDAZ M., ORMAN E. B., ÖZKAYA A. R.
DYES AND PIGMENTS, vol.102, pp.169-179, 2014 (SCI-Expanded)
- XLVIII. **Synthesis, characterization, oxygen electrocatalysis and OFET properties of novel mono- and ball-type metallophthalocyanines**
Başak A. S., Özkaya A. R., Altındal A., Salih B., Şengül A., Bekaroglu O.
DALTON TRANSACTIONS, vol.43, pp.5858-5870, 2014 (SCI-Expanded)
- XLIX. **Electrochemical, Spectroelectrochemical, and Electrochromic Properties of Lanthanide Bis-Phthalocyanines**
Orman E. B., Koca A., Özkaya A. R., Gurol I., Durmuş M., Ahsen V.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.161, 2014 (SCI-Expanded)
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