

Prof. ALİ RIZA ÖZKAYA

Personal Information

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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

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

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

Foreign Languages

English, C2 Proficiency

Dissertations

Doctorate, Taç eterli salisilaldiminin Ni(II) ve Co(II) komplekslerinin çeşitli çözücü ortamlarındaki polarografik davranışlarının incelenmesi, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 1990

Post Graduate, Kolemanit ve uleksitin bazı çözücülerdeki çözünürlüğüne iki değerli tuz ve çözücü konsantrasyonlarının etkileri, Marmara Üniversitesi, Fen Bilimleri Enstitüsü, 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

Professional Experience

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

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

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

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

Courses

Chemical Thermodynamics, Under Graduate, 2019 - 2020

Electroanalytical Chemistry I, Post Graduate, 2019 - 2020

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

Electrochemistry of Organic Compounds I, Post Graduate, 2019 - 2020

Research-Development and Innovation, Under Graduate, 2019 - 2020

Conceptual Understanding and Misconceptions in Chemistry, Under Graduate, 2019 - 2020

Electroanalytical Chemistry II, Post Graduate, 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, Post Graduate, S.ARUCU(Student), 2019

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

Özkaya A. R. , Farklı metal merkezleri içeren tetrakloro tetratimol ftalosiyanın bileşiklerinin elektrokimyasal spektroeletrokimyasal ve elektrokatalitik incelenmesi, Post Graduate, 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 spektroskopisi ve elektrokolorimetri destekli olarak incelenmesi, Post Graduate, Z.YAZAR(Student), 2016

ÖZKAYA A. R. , Ftalosiyanın elektrokimyasal davranışlarının eş zamanlı uv-vis spektroskopisi ve elektrokolorimetri destekli

olarak incelenmesi : Investigation of phthalocyanine electrochemical behaviours with in situ uv-vis spectroscopy and electrocolorimetry supports, Z.Yazar(Student), 2016

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

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

Özkaya A. R. , Bulut M., Triazol fonksiyonel grubu içeren metalli ve metallsiz ftalosiyanın bileşiklerinin sentezi, karakterizasyonu ve elektrokimyasal özelliklerinin incelenmesi, Post Graduate, B.YARDIMCI(Student), 2014

Özkaya A. R. , Bir grup ftalosiyanın bileşiminin redoks davranışlarının elektrokimyasal ve spektroelektrokimyasal yöntemlerle incelenmesi, Post Graduate, H.KARA(Student), 2013

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

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

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

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

Özkaya A. R. , Taç eterli bir salisilaldimin schiff bazının ZnII ve CdII ile kompleks oluşum dengelerinin potansiyometrik yöntemle incelenmesi, Post Graduate, 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, Post Graduate, H.Görgeç(Student), 2002

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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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, pp.34845-34856, 2020 (Journal Indexed in SCI Expanded)
- II. **Photoelectrochemical performance of thermally sulfurized CdxZn1-xS photoanode: Enhancement with reduced graphene oxide support**
Zunain Ayaz R., Akyüz D., UĞUZ Ö., Tanişik İ., SARIOĞLU C., Karaca F., ÖZKAYA A. R. , KOCA A.
RENEWABLE ENERGY, vol.162, pp.182-195, 2020 (Journal Indexed in SCI)
- III. **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, pp.14068-14080, 2020 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **Low symmetry solitaire- and trans-functional porphyrzine/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 (Journal Indexed in SCI)

- VII. **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 (Journal Indexed in SCI)
- VIII. **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, pp.8299-8313, 2019 (Journal Indexed in SCI)
- IX. **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, pp.18836-18847, 2019 (Journal Indexed in SCI)
- X. **Synthesis, characterization and electrochemical properties of isoflavone substituted zinc(II), cobalt(II), and metal-free phthalocyanines**
ORMAN E. B., Aribal A., ÖZKAYA A. R., Bulut M., SALAN Ü.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, pp.856-869, 2019 (Journal Indexed in SCI)
- XI. **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 (Journal Indexed in SCI)
- XII. **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, 2019 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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, pp.2549-2560, 2018 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XXIX. **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, 2018 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **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, pp.869-881, 2017 (Journal Indexed in SCI)
- XXIII. **Electrocatalytic Activity of Novel Ball-Type Metallophthalocyanines with Trifluoro Methyl Linkages in Oxygen Reduction Reaction and Application as Zn-Air Battery Cathode Catalyst**
Kocuyigit N., Ozen U. E. , Özer M., Salih B., Özkaya A. R. , Bekaroglu O.
ELECTROCHIMICA ACTA, vol.233, pp.237-248, 2017 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **Electrochemical and in situ spectroelectrochemical properties of metal-free and metallophthalocyanines containing alpha-naphtholbenzein groups on the peripheral positions**
SAĞLAM M. B. , ÖZKAYA A. R.
TRANSITION METAL CHEMISTRY, vol.41, pp.605-612, 2016 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **Electropolymerization and Electrochemical Pesticide Sensor Application of Metallophthalocyanines Bearing Polymerizable Morpholin Groups**
Ozen U. E. , Keleş T., Bıyıkhoğlu Z., Koca A., Özkaya A. R.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.163, 2016 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **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, 2016 (Journal Indexed in SCI)
- XXX. **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, pp.12973-12984, 2015 (Journal Indexed in SCI)
- XXXI. **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 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **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 (Journal Indexed in SCI)
- XXXVI. **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 (Journal Indexed in SCI)
- XXXVII. **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 (Journal Indexed in SCI)
- XXXVIII. **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, pp.7987-7997, 2014 (Journal Indexed in SCI)
- XXXIX. **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 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI)
- XLI. **Synthesis, characterization, electrochemistry and VOC sensing properties of novel metallophthalocyanines with four cyclohexyl-phenoxyphthalonitrile groups**
Kaki E., ÖZKAYA A. R., ALTINDAL A., SALİH B., Bekaroglu O.
SENSORS AND ACTUATORS B-CHEMICAL, vol.188, pp.1033-1042, 2013 (Journal Indexed in SCI)
- XLII. **4-Carboxymethyl-8-methyl-7-oxycoumarin substituted zinc, cobalt and indium phthalocyanines: electrochemical and photochemical properties**
Calik A. E., Koksoy B., ORMAN E. B., DURMUŞ M., ÖZKAYA A. R., Bulut M.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.17, pp.1046-1054, 2013 (Journal Indexed in SCI)
- XLIII. **DBU-catalyzed condensation of metal free and metallophthalocyanines containing thiazole and azine moieties: Synthesis, characterization and electrochemical properties**

Dede G., Bayrak R., Er M., Özkaya A. R. , Değirmencioğlu İ.

JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.740, pp.70-77, 2013 (Journal Indexed in SCI)

- XLIV. **Electrochemical and electrical properties of novel mono and ball-type phthalocyanines**
Ermis E., ÇİMEN Y., DUMLUDAĞ F., ÖZKAYA A. R. , SALİH B., Bekaroglu O.
POLYHEDRON, vol.49, pp.129-137, 2013 (Journal Indexed in SCI)
- XLV. **Synthesis, characterization, OFET and electrochemical properties of novel dimeric metallophthalocyanines**
Ozer L. M. , ÖZER M., Altindal A., ÖZKAYA A. R. , SALİH B., Bekaroglu O.
DALTON TRANSACTIONS, vol.42, pp.6633-6644, 2013 (Journal Indexed in SCI)
- XLVI. **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, pp.540-552, 2012 (Journal Indexed in SCI)
- XLVII. **Peripheral octa-substituted metal-free, cobalt(II) and zinc(II) phthalocyanines bearing coumarin and chloro groups: Synthesis, characterization, spectral and electrochemical properties**
ALTUN S., ÖZKAYA A. R. , Bulut M.
POLYHEDRON, vol.48, pp.31-42, 2012 (Journal Indexed in SCI)
- XLVIII. **Electrical and electrochemical properties of double-decker Lu(III) and Eu(III) phthalocyanines with four imidazoles and N-alkylated imidazoles**
Yabas E., SÜLÜ M., DUMLUDAĞ F., ÖZKAYA A. R. , SALİH B., Bekaroglu O.
POLYHEDRON, vol.42, pp.196-206, 2012 (Journal Indexed in SCI)
- XLIX. **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 (Journal Indexed in SCI)
- L. **Synthesis, photophysical, photochemical and electrochemical properties of crown ether bearing coumarin substituted phthalocyanines**
ÇAMUR M., DURMUŞ M., ÖZKAYA A. R. , Bulut M.
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- LI. **Photovoltaic and electrocatalytic properties of novel ball-type phthalocyanines bridged with four dicumarol**
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- I. **"Dinükleer Çinko Ftalosiyanın Bileşiğinin Elektrokimyasal, Spektroelektrokimyasal, Fotofiziksel ve Fotokimyasal Özelliklerinin İncelenmesi**
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