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Education Information

Doctorate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Turkey 1978 - 1983

Postgraduate, İstanbul University, Kimya Fakültesi, Kimya Yüksek Mühendisliği , Turkey 1971 - 1976

Foreign Languages

English

Dissertations

Doctorate, 5,6-dihidrosiklopent (f.g)asenoaftilen 1,2-diondioksim ve n,n-bis (4-benzo(15-crown-5))diaminoglioksim sentezi ve komplekslerinin incelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 1983

Research Areas

Basic Sciences, Chemistry, Inorganic Chemistry, Coordination Chemistry

Academic Titles / Tasks

Professor, İstanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1992 - Continues

Associate Professor, İstanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1989 - 1992

Assistant Professor, İstanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1986 - 1989

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2009 - 2015

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2000 - 2009

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2005 - 2008

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of heteroatom-doped carbon quantum dots on the red emission of metal-conjugated phthalocyanines through hybridization**
Eryigit S., Gelir A., Budak E., Ünlü C., Gömleksiz A., Özçesmeci İ., Gül A.
LUMINESCENCE, vol.37, no.2, pp.268-277, 2022 (SCI-Expanded)
- II. **Metallophthalocyanine/polyacrylonitrile nanofibers by solution blow spinning technique for enhanced photocatalytic activity by visible light**
Ergun A. B., Sevim A. M., Kılıç A., Gül A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.138, no.13, 2021 (SCI-Expanded)
- III. **Novel Co and Zn-Phthalocyanine dyes with octa-carboxylic acid substituents for DSSCs**
Ilgun C., Sevim A. M., ÇAKAR S., ÖZACAR M., Gül A.
SOLAR ENERGY, vol.218, pp.169-179, 2021 (SCI-Expanded)
- IV. **Optical and morphological properties and in silico studies on metallophthalocyanines containing pyridyloxy moieties**
SORAR İ., Özçesmeci İ., Katirci R., Gül A.
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- V. **Novel metallophthalocyanines with bulky 4-[3,4-bis(benzyloxy)benzylidene]aminophenoxy substituents**
Sevim A. M., Yuzeroglu M., Gül A.
MONATSHEFTE FUR CHEMIE, vol.151, no.7, pp.1059-1068, 2020 (SCI-Expanded)
- VI. **Synthesis and photophysical properties of monomeric and dimeric halogenated aza-BODIPYs**
Çınar H. Ş., Özçelik Ş., Kaya K., Kutlu O. D., ERDOĞMUŞ A., Gül A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1200, 2020 (SCI-Expanded)
- VII. **Near-infrared absorbing pi-extended hexadeca substituted phthalocyanines**
Pekbelgin Karaoglu H. R., Atsay A., Nar I., McKee V., Koçak M., Hamuryudan E., Gül A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1197, pp.736-741, 2019 (SCI-Expanded)
- VIII. **Optical and Morphological Properties of New Metallophthalocyanines with Hydroxyethylsulfanyl Substituents**
SORAR İ., Ozcevneei I., Gül A.
PROTECTION OF METALS AND PHYSICAL CHEMISTRY OF SURFACES, vol.55, no.5, pp.1019-1024, 2019 (SCI-Expanded)
- IX. **Role of hexyloxy groups in zinc phthalocyanines bearing sulfonic acid anchoring groups for dye-sensitized solar cells**
Guzel E., ŞİŞMAN İ., Gül A., Koçak M.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, no.3, pp.279-286, 2019 (SCI-Expanded)
- X. **Synthesis and boron interaction of new amino acid containing phthalocyanines and the precursor**
Baseren S. C., ERDOĞMUŞ A., Gül A.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.866, pp.105-111, 2018 (SCI-Expanded)
- XI. **Electrochemical and photovoltaic properties of highly efficient solar cells with cobalt/zinc phthalocyanine sensitizers**
Sevim A. M., Cakar S., ÖZACAR M., Gül A.
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- XII. **Synthesis, photophysical and electrochemical properties of novel unsymmetrical phthalocyanines with a Sudan IV moiety**
Özçesmeci İ., Buyuk P., Nar I., Gül A.
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- XIII. **Electrocatalytic hydrogen evolution reaction with a supramolecular cobalt(II)phthalocyanine carrying four cobaloxime moieties**
Özçesmeci İ., Demir A., Akyuz D., Koca A., Gül A.
INORGANICA CHIMICA ACTA, vol.466, pp.591-598, 2017 (SCI-Expanded)

- XIV. **A novel polystyrene with non-symmetrical zinc phthalocyanines as terminal group**
SUTCULER Y. A., Sevim A. M., Canak T., Serhatlı İ. E., Gül A.
DYES AND PIGMENTS, vol.144, pp.58-68, 2017 (SCI-Expanded)
- XV. **Novel homoleptic, dimeric zinc(II) phthalocyanines as gate dielectric for OFET device**
KESER KARAOĞLAN G., GÜMRÜKÇÜ KÖSE G., GÖRDÜK S., CAN N., Gül A.
SYNTHETIC METALS, vol.230, pp.7-11, 2017 (SCI-Expanded)
- XVI. **Synthesis, photophysical and electrochemical properties of novel hexadeca-substituted phthalocyanines bearing naphthoxy groups**
Kurt O., Özçemeci İ., Koca A., Gül A., Kocak M.
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- XVII. **Synthesis and spectroscopic investigation of boronic esters of metal-free fluorinated and non-fluorinated phthalocyanines**
Özçemeci İ., OZCESMECI M., Gül A., HAMURYUDAN E.
SYNTHETIC METALS, vol.222, pp.344-350, 2016 (SCI-Expanded)
- XVIII. **Photocatalytic degradation of persistent organic pollutants under visible irradiation by TiO₂ catalysts sensitized with Zn(II) and Co(II) tetracarboxy-phthalocyanines**
Mahmiani Y., SEVİM A. M., Gül A.
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- XIX. **Synthesis and characterization of a novel alkoxy substituted gold(III) phthalocyanine**
Bilal C., SEVİM A. M., Gül A.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.69, pp.10-12, 2016 (SCI-Expanded)
- XX. **Photocatalytic degradation of 4-chlorophenol under visible light by using TiO₂ catalysts impregnated with Co(II) and Zn(II) phthalocyanine derivatives**
Mahmiani Y., SEVİM A. M., Gül A.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.321, pp.24-32, 2016 (SCI-Expanded)
- XXI. **Optical studies on phthalocyanines substituted with phenylazonaphthoxy groups**
Özçemeci İ., Sorar İ., Gül A.
PHILOSOPHICAL MAGAZINE, vol.96, no.28, pp.2986-2999, 2016 (SCI-Expanded)
- XXII. **Liquid state N-15 NMR studies of N-15 isotope labeled phthalocyanines**
Atsay A., Gül A., KOCAK M.
TURKISH JOURNAL OF CHEMISTRY, vol.40, no.1, pp.163-173, 2016 (SCI-Expanded)
- XXIII. **Cobaltacarborane functionalized phthalocyanines: Synthesis, photophysical, electrochemical and spectroelectrochemical properties**
Nar İ., Gül A., SIVAEV İ. B., HAMURYUDAN E.
SYNTHETIC METALS, vol.210, pp.376-385, 2015 (SCI-Expanded)
- XXIV. **Synthesis, electrochemistry and in situ spectroelectrochemistry of novel hexadeca-substituted phthalocyanines with three different groups**
Kurt O., Koca A., Gül A., KOCAK M.
SYNTHETIC METALS, vol.206, pp.72-83, 2015 (SCI-Expanded)
- XXV. **Synthesis, characterization, fluorescence spectra and energy transfer properties of a novel unsymmetrical zinc phthalocyanine with peripherally coordinated Ru(II) complex**
Ceylan N., Gumrukcu G., Karaoglan G. K., Gül A.
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- XXVI. **A new unsymmetrical phthalocyanine with a single o-carborane substituent**
Ozgur N., NAR İ., Gül A., HAMURYUDAN E.
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- XXVII. **Aggregation behavior in unsymmetrically substituted metal-free phthalocyanines**
Kobak R. Z. U., ARI M. U., TEKİN A., Gül A.
CHEMICAL PHYSICS, vol.448, pp.91-97, 2015 (SCI-Expanded)
- XXVIII. **Microwave-assisted synthesis, electrochemistry and spectroelectrochemistry of amphiphilic phthalocyanines**

- Guzel E., Koca A., Gül A., KOCAK M.
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- XXIX. **Photophysical and photochemical properties of a zinc phthalocyanine with four diphenylborinic ester moieties**
Özçelik Ş., Karaoglan G. K., Gumrukcu G., ERDOĞMUŞ A., Gül A.
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- XXX. **Synthesis and in vitro study of new highly boronated phthalocyanine**
Shmal'ko A., EFREMENKO A. V., IGNATOVA A. A., SIVAEV I. B., FEOFANOV A. V., HAMURYUDAN E., GUEL A., KOVALENKO L. V., QI S., BREGADZE V. I.
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- XXXI. **A.c. and d.c. conduction processes in octakis[(4-tert-butylbenzylthio)-porphyrinato]Cu(II) thin films with gold electrodes**
KESKİN B., ALTINDAL A., Avciata U., Gül A.
BULLETIN OF MATERIALS SCIENCE, vol.37, no.3, pp.461-468, 2014 (SCI-Expanded)
- XXXII. **Synthesis, characterization and electrochemical investigation of phthalocyanines carrying 96 boron atoms**
Birsoz B., Nar I., Gül A.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.755, pp.64-71, 2014 (SCI-Expanded)
- XXXIII. **Synthesis and photophysical properties of novel hexadeca-substituted phthalocyanines bearing three different groups**
Kurt O., OZCESMECI İ., GUL A., Kocak M.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.754, pp.8-15, 2014 (SCI-Expanded)
- XXXIV. **Synthesis and aggregation behavior of zinc phthalocyanines substituted with bulky naphthoxy and phenylazonaphthoxy groups: An experimental and theoretical study**
Özçeşmeci İ., TEKİN A., GUL A.
SYNTHETIC METALS, vol.189, pp.100-110, 2014 (SCI-Expanded)
- XXXV. **Synthesis and photophysical properties of indium(III) phthalocyanine derivatives**
Özçeşmeci İ., GELİR A., Gül A.
JOURNAL OF LUMINESCENCE, vol.147, pp.141-146, 2014 (SCI-Expanded)
- XXXVI. **Photophysical, Photochemical, and BQ Quenching Properties of Zinc Phthalocyanines with Fused or Interrupted Extended Conjugation**
Gumrukcu G., Karaoglan G. K., ERDOĞMUŞ A., Gül A., Avciata U.
JOURNAL OF CHEMISTRY, 2014 (SCI-Expanded)
- XXXVII. **A new hexadeca substituted non-aggregating zinc phthalocyanine**
Atsay A., GUL A., Kocak M.
DYES AND PIGMENTS, vol.100, pp.177-183, 2014 (SCI-Expanded)
- XXXVIII. **Boron-containing tetrapyrroles**
Özçelik Ş., GUL A.
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.6, pp.950-979, 2014 (SCI-Expanded)
- XXXIX. **Synthesis characterization and electrochemical investigation of phthalocyanines carrying 96 boron atoms**
Gül A.
J. Organometal. Chem., vol.755, pp.64-71, 2014 (SCI-Expanded)
- XL. **Synthesis spectral and photophysical investigation of porphyrazines with eight 3 quinolinecarboxy esters**
Gül A.
Journal of Coordination Chemistry, vol.66, no.24, pp.4316-4329, 2013 (SCI-Expanded)
- XLI. **Photophysical properties of anthracenylmethyloxycarbonylmethylsulfanyl-phthalocyanines**
Sevim A. M., ARIKAN S., OZCESMECI İ., GUL A.
SYNTHETIC METALS, vol.183, pp.1-7, 2013 (SCI-Expanded)
- XLII. **Preparation and characterization of silver nanoparticle-porphyrazine composites**

- Sevim A. M., KESKIN A. S., GUL A.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.17, no.10, pp.928-933, 2013 (SCI-Expanded)
- XLIII. **Synthesis and photophysical properties of a novel ethynyl zinc(II) phthalocyanine and its functionalized derivative with click chemistry**
Sevim A. M., OZCESMECI İ., GUL A.
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- XLIV. **Synthesis, characterization and photodynamic activity of a new amphiphilic zinc phthalocyanine**
Guzel E., ATSAY A., Nalbantoglu S., Saki N., DOĞAN A., GÜL A., KOCAK M.
DYES AND PIGMENTS, vol.97, no.1, pp.238-243, 2013 (SCI-Expanded)
- XLV. **Different phenylboronic acid azaester formation modes in a substituted zinc phthalocyanine and its precursor**
Özçelik Ş., GÜL A.
POLYHEDRON, vol.50, no.1, pp.461-466, 2013 (SCI-Expanded)
- XLVI. **New Highly Boronated Zn II Phthalocyanine Synthesis and in vitro Study**
GÜL A.
Biochemical and Biophysical Journal of Neutron Therapy & Cancer Treatments, vol.1, pp.8-14, 2013 (SCI-Expanded)
- XLVII. **A novel phthalocyanine conjugated with four salicylideneimino complexes: Photophysics and fluorescence quenching studies**
Gumrukcu G., Karaoglan G. K., ERDOĞMUŞ A., GÜL A., Avciata U.
DYES AND PIGMENTS, vol.95, no.2, pp.280-289, 2012 (SCI-Expanded)
- XLVIII. **Synthesis and electrochemical investigation of phthalocyanines with dendritic bulky ethereal substituents**
Özçelik Ş., Koca A., GÜL A.
POLYHEDRON, vol.42, no.1, pp.227-235, 2012 (SCI-Expanded)
- XLIX. **Novel water-soluble metallophthalocyanines supported on cotton fabric**
Yıldırım O., Sevim A. M., GÜL A.
COLORATION TECHNOLOGY, vol.128, no.3, pp.236-243, 2012 (SCI-Expanded)
- L. **Synthesis of Ni(II) porphyrazine peripherally 4-tert-butylbenzylthio moiety and electronic Schottky barrier diode octa-substituted with the properties of the Al/Ni(II)Pz/p-Si Schottky barrier diode**
KESKİN B., DENKTAŞ C., ALTINDAL A., AVCIATA U., GÜL A.
POLYHEDRON, vol.38, no.1, pp.121-125, 2012 (SCI-Expanded)
- LI. **Preparation of novel heterogeneous catalysts by adsorption of a cationic tetrapyrrole on to bentonite: equilibrium, kinetics, and thermodynamics**
Sevim A. M., HOJIYEV R., GÜL A., CELIK M. S.
MONATSHEFTE FÜR CHEMIE, vol.143, no.3, pp.385-400, 2012 (SCI-Expanded)
- LII. **Synthesis and spectroelectrochemistry of new phthalocyanines with ester functionalities**
Sevim A. M., ARIKAN S., Koca A., GÜL A.
DYES AND PIGMENTS, vol.92, no.3, pp.1114-1121, 2012 (SCI-Expanded)
- LIII. **Synthesis and photophysical properties phthalocyanine-pyrene dyads**
Özçeşmeci İ., GELİR A., GÜL A.
DYES AND PIGMENTS, vol.92, no.3, pp.954-960, 2012 (SCI-Expanded)
- LIV. **Boronic ester of a phthalocyanine precursor with a salicylaldimino moiety**
Özçelik Ş., GÜL A.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.699, pp.87-91, 2012 (SCI-Expanded)
- LV. **Unsymmetrical phthalocyanines with cyclopalladated azo functions**
Akkurt H. Y. Y., OKUR A. I., GÜL A.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.16, no.2, pp.192-199, 2012 (SCI-Expanded)
- LVI. **Synthesis, characterization, electrochemistry and spectroelectrochemistry of novel soluble porphyrazines bearing unsaturated functional groups**
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- DYES AND PIGMENTS, vol.92, no.1, pp.610-618, 2012 (SCI-Expanded)
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- LVIII. **Boron-Containing Phthalocyanines and Porphyrazines**
Sivaev I. B., Bregadze V. I., GüL A., Mironov A. F.
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- LIX. **EFFECTS OF A PORPHYRAZINE DERIVATIVE ON SOME DEVELOPMENTAL CHARACTERISTICS OF DROSOPHILA MELANOGASTER**
Karatas A., Ertan F., Saki N., Baspinar E., Sevim A. M., GüL A.
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- LX. **Zinc(II)phthalocyanine as an optical window for visible region**
Özçeşmeci İ., Sorar I., GüL A.
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- LXI. **The use of novel photobleachable phthalocyanines to image DNA**
Turanlı-Yıldız B., SEZGIN T., Çakar Z. P., USLAN C., Sesalan B. Ş., GÜL A.
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- LXII. **Synthesis and characterization of novel soluble phthalocyanines with fused conjugated unsaturated groups**
Karaoglan G. K., Gumrukcu G., Koca A., GüL A., Avciata U.
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- LXIII. **Boronic esters of a porphyrazine and its precursor**
Baseren S. C., OZCELIK Ş., GüL A.
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- LXIV. **Synthesis and electrochemical and in situ spectroelectrochemical characterization of manganese, vanadyl, and cobalt phthalocyanines with 2-naphthoxy substituents**
Özçeşmeci İ., Koca A., GÜL A.
ELECTROCHIMICA ACTA, vol.56, no.14, pp.5102-5114, 2011 (SCI-Expanded)
- LXV. **Preparation of heterogeneous phthalocyanine catalysts by cotton fabric dyeing**
Sevim A. M., ILGUN C., GüL A.
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- LXVI. **The synthesis, characterization, electrochemical and spectroelectrochemical properties of a novel, cationic, water-soluble Zn phthalocyanine with extended conjugation**
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- LXVII. **An investigation of the kinetics and thermodynamics of the adsorption of a cationic cobalt porphyrazine onto sepiolite**
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- LXVIII. **The synthesis and cyclotetramerisation reactions of aryloxy-, arylalkyloxy-substituted pyrazine-2,3-dicarbonitriles and spectroelectrochemical properties of octakis(hexyloxy)-pyrazinoporphyrizine**
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- LXIX. **Radical scavenging and invitro antifungal activities of Cu(II) and Co(II) complexes of the t-butylphenyl derivative of porphyrazine**
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- LXX. **The photodegradation of a zinc phthalocyanine**
Gumustas M. K., Sesalan B. Ş., ATUKEREN P., YAVUZ B., GüL A.
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- LXXI. **2 3 7 8 13 14 17 18 Octakis ethyl sulfanyl 5 10 15 20 porphyrazinato zinc II**

- Gül A.
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- LXXII. **Synthesis and EPR studies of a near infrared absorbing tetrakis(2-naphthoxy)vanadylphthalocyanine**
Özçeşmeci İ., Yerli Y., OKUR A. I., Gül A.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.12, no.7, pp.625-627, 2009 (SCI-Expanded)
- LXXIII. **Voltammetric and spectroelectrochemical characterization and electrocatalytic application of metallophthalocyanines carrying pendant bulky units**
KOCA A., Dincer H. A., Gonca E., Gül A.
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- LXXIV. **1,4-Dithiaheterocycle-fused porphyrazines: Synthesis, characterization, voltammetric and spectroelectrochemical properties**
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- LXXV. **MONOMERIC AND HOMOLEPTIC THORIUM PORPHYRAZINE DERIVATIVES**
Gonca E., Gül A.
REVIEWS IN INORGANIC CHEMISTRY, vol.29, no.2, pp.131-140, 2009 (SCI-Expanded)
- LXXVI. **New phthalocyanines containing bulky electron rich substituents**
ÖZÇEŞMECİ İ., GÜNEY O., Ali İhsan O., Gül A.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.13, no.6, pp.753-759, 2009 (SCI-Expanded)
- LXXVII. **Water soluble novel phthalocyanines containing dodeca-amino groups**
Sesalan B. Ş., Koca A., Gül A.
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- LXXVIII. **Voltammetric, spectroelectrochemical, and electrocatalytic properties of thiol-derivatized phthalocyanines**
Osmanbas O. A., Koca A., Özçeşmeci İ., OKUR A. I., GUL A.
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- LXXIX. **Synthesis, electrochemistry and in situ Spectroelectrochemistry of soluble lead phthalocyanines**
Dincer H. A., ŞENER M. K., Koca A., GUL A., Koçak M.
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- LXXX. **Voltammetric and spectroelectrochemical characterization of porphyrazines: Electrochemical metal sensor**
Koca A., Gonca E., GUEL A.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.612, no.2, pp.231-240, 2008 (SCI-Expanded)
- LXXXI. **Synthesis Absorption and Fluorescence Spectral Investigation of Porphyrazines with Eight 2 Naphthalenecarboxy Esters**
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- LXXXII. **Novel phthalocyanines bearing both quaternizable and bulky substituents**
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- LXXXIII. **Synthesis, Characterization and Electrochemistry of New Soluble Porphyrazine Complexes Bearing Octakis 3-Methylbutylthio Substituents**
Erdogmus A., Koca A., Avciata U., GUEL A.
ZEITSCHRIFT FUR ANORGANISCHE UND ALLGEMEINE CHEMIE, vol.634, no.14, pp.2649-2654, 2008 (SCI-Expanded)
- LXXXIV. **DNA and BSA binding studies of novel tetracationic phthalocyanines**
Gül A.
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Publication: 262

Citation (WoS): 2944

Citation (Scopus): 2581

H-Index (WoS): 33

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Non Academic Experience

TÜBİTAK

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