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Eğitim Bilgileri

Doktora, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Türkiye 1978 - 1984

Yabancı Diller

İngilizce

Yaptığı Tezler

Doktora, Yeni vic-Di- ve tetra oksimlerin Sentezi Ni(II), Cu(II), Co, Cd, Zn ve UO₂(VI), ile oluşturdukları Komplekslerin İncelenmesi., Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 1984

Akademik Unvanlar / Görevler

Prof.Dr., İstanbul Teknik Üniversitesi, Fen-Edebiyat, Kimya, 1988 - 2021

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Gallium chloride phthalocyanines possessing 4-(trifluoromethoxy)phenoxy units: Synthesis, characterization, and photophysicochemical investigations**
Farajzadeh N., YAŞA ATMACA G., Çınar M. E., ERDOĞMUŞ A., Koçak M.
JOURNAL OF THE CHINESE CHEMICAL SOCIETY, cilt.68, sa.8, ss.1466-1477, 2021 (SCI-Expanded)
- II. **Novel symmetrical and unsymmetrical fluorine-containing metallophthalocyanines: synthesis, characterization and investigation of their biological properties**
Pekbelgin Karaoglu H. R., Sağlam Ö., ÖZDEMİR S., GONCA S., Koçak M.
DALTON TRANSACTIONS, cilt.50, ss.9700-9708, 2021 (SCI-Expanded)
- III. **Comparatively singlet oxygen efficiency by sono-photochemical and photochemical studies of new lutetium (III) phthalocyanines**
Farajzadeh N., YAŞA ATMACA G., ERDOĞMUŞ A., Koçak M.

- DYES AND PIGMENTS, cilt.190, 2021 (SCI-Expanded)
- IV. Investigation of tyrosinase enzyme (from mushroom) inhibitory activities and antioxidant properties of new fluorine-containing phthalocyanines
Farajzadeh N., Sağlam Ö., Akin M., ŞAKİ N., Koçak M.
ARCHIV DER PHARMAZIE, cilt.354, sa.4, 2021 (SCI-Expanded)
- V. Investigation of the biological and photophysicschemical properties of new non-peripheral fluorinated phthalocyanines
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- VI. Nonlinear optical behavior and optical power limiting characteristics of peripheral symmetrical and non-symmetrical zinc phthalocyanines with nanosecond pulsed excitation
ERDEM M., Korkmaz E., GÖRK G., Ahmetali E., Farajzadeh N., Eryürek G., Koçak M.
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- VII. A series of asymmetric zinc (II) phthalocyanines containing fluoro and alkynyl groups: Synthesis and examination of humidity sensing performance by using QCM based sensor
Ahmetali E., Pekbelgin Karaoglu H. R., Urfa Y., ALTINDAL A., Koçak M.
MATERIALS CHEMISTRY AND PHYSICS, cilt.254, 2020 (SCI-Expanded)
- VIII. Electrochemical and spectroelectrochemical characterizations of new tetra-substituted metallophthalocyanines bearing 4-(trifluoromethoxy)phenoxy groups on non-peripheral positions
Farajzadeh N., Akyuz D., KOCA A., Koçak M.
MONATSHEFTE FÜR CHEMIE, cilt.151, sa.9, ss.1337-1348, 2020 (SCI-Expanded)
- IX. Nonlinear optical properties of peripheral symmetrically and non-symmetrically 4-(trifluoromethoxy)phenoxy substituted zinc phthalocyanines
Farajzadeh N., GÖRK G., ERDEM M., Eryürek G., Koçak M.
SYNTHETIC METALS, cilt.266, 2020 (SCI-Expanded)
- X. Investigation of photophysical and photochemical properties of phthalocyanines bearing fluorinated groups
Korkmaz E., Ahmetali E., Atmaca G. Y., Karaoglu H. R., ERDOĞMUŞ A., Kocak M.
MONATSHEFTE FÜR CHEMIE, cilt.151, sa.2, ss.181-190, 2020 (SCI-Expanded)
- XI. Synthesis, electrochemistry and in situ spectroelectrochemistry of novel tetra- and octa-substituted metallophthalocyanines bearing peripherally 4-(trifluoromethoxy)phenoxy groups
Farajzadeh N., Akyuz D., KOCA A., Kocak M.
POLYHEDRON, cilt.177, 2020 (SCI-Expanded)
- XII. Investigation of Time-Kill Evaluation and Antioxidant Activities of New Tetra-Substituted Metallophthalocyanines Bearing 4-(Trifluoromethoxy)thiophenyl Groups
Sağlam Ö., Akin M., Pekbelgin Karaoglu H. R., ŞAKİ N., Kocak M.
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- XIII. Evaluation of carbonic anhydrase and paraoxonase inhibition activities and molecular docking studies of highly water-soluble sulfonated phthalocyanines
Guzel E., Sonmez F., ERKAN S., Cikrikci K., Ergun A., Gencer N., Arslan O., Koçak M.
TURKISH JOURNAL OF CHEMISTRY, cilt.44, sa.6, ss.1565-1577, 2020 (SCI-Expanded)
- XIV. 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, cilt.1197, ss.736-741, 2019 (SCI-Expanded)
- XV. Synthesis, Photophysical and Biological Properties of New Phthalocyanines Bearing Peripherally 4-(Trifluoromethoxy)phenoxy Groups
Farajzadeh N., Pekbelgin Karaoglu H. R., Akin M., ŞAKİ N., Koçak M.
CHEMISTRYSELECT, cilt.4, sa.31, ss.8998-9005, 2019 (SCI-Expanded)
- XVI. Photophysical and photochemical properties of newly synthesized zinc(II) and chloroindium(III)phthalocyanines substituted with 3,5-bis(trifluoromethyl)phenoxy groups
Ahmetali E., YAŞA ATMACA G., Pekbelgin Karaoglu H. R., ERDOĞMUŞ A., Koçak M.

- JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, cilt.23, ss.960-968, 2019 (SCI-Expanded)
- XVII. **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.
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- XVIII. **Antimicrobial and antioxidant properties of novel octa-substituted phthalocyanines bearing (trifluoromethoxy)phenoxy groups on peripheral positions**
Farajzadeh N., Pekbelgin Karaoğlu H. R., Akin M., ŞAKİ N., Koçak M.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, cilt.23, ss.91-102, 2019 (SCI-Expanded)
- XIX. **Zinc and chloroindium complexes of furan-2-ylmethoxy substituted phthalocyanines: Preparation and investigation of aggregation, singlet oxygen generation, antioxidant and antimicrobial properties**
GÜZEL E., ŞAKİ N., AKIN M., NEBİOĞLU M., ŞİŞMAN İ., ERDOĞMUŞ A., KOÇAK M.
Synthetic Metals, cilt.245, ss.127-134, 2018 (SCI-Expanded)
- XX. **Synthesis and characterization of novel quaternized 2, 3-(diethylmethylamino)phenoxy tetrasubstituted Indium and Gallium phthalocyanines and comparison of their antimicrobial and antioxidant properties with different phthalocyanines**
ŞAKİ N., Akin M., Atsay A., Karaoglu H. R., Koçak M.
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- XXI. **Ferrocenyl Phthalocyanine as Donor in Non-Poly(3-hexylthiophen-2,5-diyl) Bulk Heterojunction Solar Cell**
NAR I., Atsay A., ALTINDAL A., Hamuryudan E., Koçak M., Guel A.
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- XXII. **Phthalocyanines formed from several precursors: synthesis, characterization, and comparative fluorescence and quinone quenching**
Karaoglu H. R., Yenilmez H. Y., Koçak M.
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- XXIII. **Synthesis and characterization of novel quaternized 2, 3-(diethylmethylamino)phenoxy tetrasubstituted Indium and Gallium phthalocyanines and comparison of their antimicrobial and antioxidant properties with different phthalocyanines**
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Inorganic Chemistry Communications, cilt.95, ss.122-129, 2018 (SCI-Expanded)
- XXIV. **A Honeycomb-Like Crystalline Self-Assembled Hexadeca-Substituted Phthalocyanine**
Atsay A., NAR I., Hamuryudan E., KOCAK M., Guel A.
CHEMISTRYSELECT, cilt.2, sa.28, ss.9233-9235, 2017 (SCI-Expanded)
- XXV. **Novel sulfonated hydrophilic indium(III) and gallium(III) phthalocyanine photosensitizers: preparation and investigation of photophysical properties**
GÜZEL E., YAŞA ATMACA G., ERDOĞMUŞ A., KOÇAK M.
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- XXVI. **Synthesis, photophysical and electrochemical properties of novel hexadeca-substituted phthalocyanines bearing naphthoxy groups**
Kurt O., Özleşmeci İ., Koca A., Gül A., Kocak M.
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- XXVII. **Anionic water-soluble sulfonated phthalocyanines: microwave-assisted synthesis, aggregation behaviours, electrochemical and in-situ spectroelectrochemical characterisation**
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- XXVIII. **Liquid state N-15 NMR studies of N-15 isotope labeled phthalocyanines**
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- XXIX. **Synthesis, electrochemistry and in situ spectroelectrochemistry of novel hexadeca-substituted**

- phthalocyanines with three different groups**
Kurt O., Koca A., GüL A., KOCAK M.
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- XXX. **The synthesis and investigation of binding properties of a new water soluble hexadeca zinc(II) phthalocyanine with bovine serum albumin and DNA**
Kurt O., OZCESMECI İ., Sesalan B. S., Koçak M.
NEW JOURNAL OF CHEMISTRY, cilt.39, sa.7, ss.5767-5775, 2015 (SCI-Expanded)
- XXXI. **Microwave-assisted synthesis, electrochemistry and spectroelectrochemistry of amphiphilic phthalocyanines**
Guzel E., Koca A., GüL A., KOCAK M.
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- XXXII. **Electropolymerization of Octakis Diethylamino Substituted Metallophthalocyanines and Their Electrochromic Characterization**
Aydemir M., KARAOGLU H. R., Kocak M., Koca A.
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- XXXIII. **Synthesis and photophysical properties of novel hexadeca-substituted phthalocyanines bearing three different groups**
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- XXXIV. **A new hexadeca substituted non-aggregating zinc phthalocyanine**
Atsay A., GUL A., Kocak M.
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- XXXV. **The synthesis and electrochemistry of novel, symmetrical, octasubstituted phthalocyanines**
Karaoglu H. R., Koca A., Kocak M.
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- XXXVI. **Synthesis, characterization and photodynamic activity of a new amphiphilic zinc phthalocyanine**
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- XXXVII. **Synthesis, electrochemical and spectroelectrochemical characterization of novel soluble phthalocyanines bearing chloro and quaternizable bulky substituents on peripheral positions**
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- XXXVIII. **Synthesis, electrochemistry and in situ spectroelectrochemistry of water-soluble phthalocyanines**
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- XXXIX. **Novel phthalocyanines with naphthalenic substituents**
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- XL. **Structural and optical studies of tetra (tricarbethoxy)-substituted metallophthalocyanines**
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- XLI. **Synthesis, electrochemistry and in situ Spectroelectrochemistry of soluble lead phthalocyanines**
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- XLII. **Synthesis and characterization of a new tetracationic phthalocyanine**
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- XLIII. **Novel phthalocyanines bearing both quaternizable and bulky substituents**
Dincer H. A., KOCA A., Gul A., KOCAK M.
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- XLIV. **Synthesis and electrochemical characterization of biphenyl-malonic ester substituted cobalt, copper,**

- and palladium phthalocyanines**
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- XLV. Tuning of phthalocyanine absorption ranges by additional substituents**
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- XLVI. Investigation of the electrocatalytic activity of metalophthalocyanine complexes for hydrogen production from water**
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- XLIX. Structure of Di tert butyl 3 4 dicyanophenyl hydroxy malonate**
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- L. Electrochemical characterization of Co(II) and Pd(II) phthalocyanines carrying diethoxymalonyl and carboxymethyl substituents**
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- LI. Diethyl 2-(3,4-dicyanophenyl)-2-[(2-naphthyl)methyl] malonate**
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- LII. Electrochemical characterization of phthalocyanine derivatives carrying a bulky triester unit on each benzo group**
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- LIII. Synthesis and spectral properties of tetra and octa substituted lead phthalocyanines**
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- LIV. Electrochemical, spectroelectrochemical, and pyridine binding properties of tetrathia macrocycle-bridged dimeric cobalt phthalocyanine**
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- LVI. A new double-decker Lu(III) diphthalocyanine with eight peripheral benzo(15-crown-5) units**
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- LVII. Synthesis of tetra tricarbethoxy and tetra dicarboxy substituted soluble phthalocyanines**
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- LVIII. Synthesis and complexation of a novel soluble vic-dioxime ligand**
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- LX. **Double-decker lutetium(III) diphthalocyanine with eight crown ether substituents**
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- LXI. **Novel crown ether-substituted phthalocyanines**
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- LXII. **Copper(II) and palladium(II) complexes of N,N '-bis(2-hydroxyethyl)stilbenediamine**
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- LXIII. **Synthesis and characterization of a new 2,2 '-azoquinoxaline and its complexes with platinum and palladium**
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- LXIV. **Synthesis and complexation of a novel soluble vic-dioxime with hydroxyethyl pendant arms**
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- LXV. **Synthesis and complexation of a novel soluble vic-dioxime**
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- LXVI. **Protonation and Coordination Properties of four 14 Membered Tetraaza macrocycles Symmetrically linked to Phthalocyanines**
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- LXVII. **Catalytic decomposition of hydrogen peroxide with crowned ether phthalocyanines**
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- LXVIII. **INVESTIGATIONS OF THE INTERACTION OF 4 ',5 '-BIS(SALICYLIDENEIMINO) BENZO-15-CROWN-5 WITH TRANSITION AND ALKALI METAL IONS AND THE URANYL CATION**
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- LXIX. **NOVEL 2-FOLD-MACROCYCLE-SUBSTITUTED PHTHALOCYANINES**
KOCAK M., OKUR A., BEKAROGLU O.
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- LXX. **SYNTHESIS AND CHARACTERIZATION OF PHTHALOCYANINES CONTAINING 4 14-MEMBERED TETRAAZA MACROCYCLES**
KOCAK M., GUREK A., GUL A., BEKAROGLU O.
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- LXXI. **SYNTHESIS AND CHARACTERIZATION OF NOVEL PHTHALOCYANINES SUBSTITUTED WITH 4 TETRAAZA MACROCYCLES**
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- LXXII. **THE SYNTHESIS AND COMPLEX-FORMATION OF N-(2-METHYL PYRIDYL)AMINO GLYOXIME**
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- LXXIII. **SYNTHESIS OF ETHANE-1,2-BIS(THIOGLYOXIME) AND ITS COMPLEXES WITH NICKEL(II), COPPER(II), COBALT(III), CADMIUM(II), AND URANYL(VI)**

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- I. Nonlinear Optik Uygulamaları için 3,5-Bis(Triflorometil)Fenoksi Grupları İçeren Yeni Push-Pull Asimetrik Çinko Ftalosiyanın Sentezi ve Karakterizasyonu
AHMETALİ E., PEKBELGİN KARAOĞLU H. R., KOÇAK M.
31. Ulusal Kimya Kongresi, Türkiye, 10 - 13 Eylül 2019
- II. PDT Uygulamaları İçin Non-Periferal Konumlarda 3,5-Bis(Triflorometil)Fenoksi Gruplarını İçeren Yeni Tetrasübstitüte Çinko Ftalosiyanın Sentezi 31. Ulusal Kimya Kongresi
Çelik Ç., SAĞLAM Ö., KOÇAK M.
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- III. A NEW TYPE OF TETRASUBSTITUTED ZINC PHTHALOCYANINE CONTAINING 3,5 - BIS(TRIFLUOROMETHYL)PHENOXY GROUPS AT PERIPHERAL POSITIONS
KORKMAZ E., AHMETALİ E., PEKBELGİN KARAOĞLU H. R., KOÇAK M.
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- IV. Synthesis, Characterization, and Spectral Properties of a Novel Symmetrical Indium Phthalocyanine
Farajzadeh N., PEKBELGİN KARAOĞLU H. R., KOÇAK M.
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- V. Synthesis, Characterization and Spectral Properties of a Novel Symmetrical Palladium Phthalocyanine
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20. Frühjahrssymposium-FJS, konstanz, Almanya, 21 - 24 Mart 2018
- VI. Nonlinear Optical Absorption and Refraction Properties of Zinc Phthalocyanine Compounds
ERDEM M., EDEŞ HUYAL F. K., ERYÜREK G., PEKBELGİN KARAOĞLU H. R., KOÇAK M.
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- VII. Synthesis And Characterization Of New Tetrasubstituted Phthalocyanines With Fluoride Groups For Third-Order Nonlinear Optical Applications
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- VIII. Novel Phthalocyanines for Nonlinear Optic Applications
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Akademî Dışı Deneyim

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