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Education Information

Doctorate, Karadeniz Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1978 - 1984

Foreign Languages

English

Dissertations

Doctorate, 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

Academic Titles / Tasks

Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 1988 - 2021

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

- I. **Novel symmetrical and unsymmetrical fluorine-containing metallophthalocyanines: synthesis, characterization and investigation of their biological properties**
Pekbelgin Karaoğlu H. R., Sağlam Ö., ÖZDEMİR S., GONCA S., Koçak M.
DALTON TRANSACTIONS, vol.50, pp.9700-9708, 2021 (Journal Indexed in SCI)
- II. **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, vol.190, 2021 (Journal Indexed in SCI)
- III. **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, 2021 (Journal Indexed in SCI)
- IV. **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.
POLYHEDRON, vol.195, 2021 (Journal Indexed in SCI)
- V. **Investigation of the biological and photophysicochemical properties of new non-peripheral**

fluorinated phthalocyanines

ÇELİK Ç., Farajzadeh N., Akin M., YAŞA ATMACA G., Sağlam Ö., ŞAKİ N., ERDOĞMUŞ A., Koçak M.
DALTON TRANSACTIONS, vol.50, no.8, 2021 (Journal Indexed in SCI)

- VI. **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, 2020 (Journal Indexed in SCI)
- 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 Karaoğlu H. R. , Urfa Y., ALTINDAL A., Koçak M.
MATERIALS CHEMISTRY AND PHYSICS, vol.254, 2020 (Journal Indexed in SCI)
- 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, vol.151, no.9, pp.1337-1348, 2020 (Journal Indexed in SCI)
- 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, vol.266, 2020 (Journal Indexed in SCI)
- 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, vol.151, no.2, pp.181-190, 2020 (Journal Indexed in SCI)
- 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, vol.177, 2020 (Journal Indexed in SCI)
- 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.
CHEMISTRYSELECT, vol.5, no.8, pp.2522-2527, 2020 (Journal Indexed in SCI)
- 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, vol.44, no.6, pp.1565-1577, 2020 (Journal Indexed in SCI)
- XIV. **Near-infrared absorbing pi-extended hexadeca substituted phthalocyanines**
Pekbelgin Karaoğlu H. R. , Atsay A., Nar I., McKee V., Koçak M., Hamuryudan E., Gül A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1197, pp.736-741, 2019 (Journal Indexed in SCI)
- XV. **Synthesis, Photophysical and Biological Properties of New Phthalocyanines Bearing Peripherally 4-(Trifluoromethoxy)phenoxy Groups**
Farajzadeh N., Pekbelgin Karaoğlu H. R. , Akin M., ŞAKİ N., Koçak M.
CHEMISTRYSELECT, vol.4, no.31, pp.8998-9005, 2019 (Journal Indexed in SCI)
- 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 Karaoğlu H. R. , ERDOĞMUŞ A., Koçak M.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, pp.960-968, 2019 (Journal Indexed in SCI)
- 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.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, no.3, pp.279-286, 2019 (Journal Indexed in SCI)
- 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., ŞAKI N., Koçak M.

JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, pp.91-102, 2019 (Journal Indexed in SCI)

- 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., ŞAKI N., AKIN M., NEBİOĞLU M., ŞİŞMAN İ., ERDOĞMUŞ A., KOÇAK M.
Synthetic Metals, vol.245, pp.127-134, 2018 (Journal Indexed in SCI)
- 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**
ŞAKI N., Akin M., Atsay A., Karaoglu H. R. P. , Koçak M.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.95, pp.122-129, 2018 (Journal Indexed in SCI)
- XXI. **Ferrocenyl Phthalocyanine as Donor in Non-Poly(3-hexylthiophen-2,5-diy) Bulk Heterojunction Solar Cell**
NAR I., Atsay A., ALTINDAL A., Hamuryudan E., Koçak M., Guel A.
CHEMISTRY-A EUROPEAN JOURNAL, vol.24, no.27, pp.6946-6949, 2018 (Journal Indexed in SCI)
- XXII. **Phthalocyanines formed from several precursors: synthesis, characterization, and comparative fluorescence and quinone quenching**
Karaoglu H. R. P. , Yenilmez H. Y. , Koçak M.
JOURNAL OF COORDINATION CHEMISTRY, vol.71, no.15, pp.2340-2357, 2018 (Journal Indexed in SCI)
- 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**
ŞAKI N., AKIN M., ATsay A., PEKBİLGİN KARAĞLU H., KOÇAK M.
Inorganic Chemistry Communications, vol.95, pp.122-129, 2018 (Journal Indexed in SCI)
- XXIV. **A Honeycomb-Like Crystalline Self-Assembled Hexadeca-Substituted Phthalocyanine**
Atsay A., NAR I., Hamuryudan E., KOÇAK M., Guel A.
CHEMISTRYSELECT, vol.2, no.28, pp.9233-9235, 2017 (Journal Indexed in SCI)
- XXV. **Novel sulfonated hydrophilic indium(III) and gallium(III) phthalocyanine photosensitizers: preparation and investigation of photophysical and photochemical properties**
GÜZEL E., YAŞA ATMACA G., ERDOĞMUŞ A., KOÇAK M.
Journal Of Coordination Chemistry, vol.70, no.15, pp.2659-2670, 2017 (Journal Indexed in SCI)
- XXVI. **Synthesis, photophysical and electrochemical properties of novel hexadeca-substituted phthalocyanines bearing naphthoxy groups**
Kurt O., Özçeşmeci İ., Koca A., Gül A., Kocak M.
DYES AND PIGMENTS, vol.137, pp.236-243, 2017 (Journal Indexed in SCI)
- XXVII. **Anionic water-soluble sulfonated phthalocyanines: microwave-assisted synthesis, aggregation behaviours, electrochemical and in-situ spectroelectrochemical characterisation**
Guzel E., Koca A., Kocak M.
SUPRAMOLECULAR CHEMISTRY, vol.29, no.7, pp.536-546, 2017 (Journal Indexed in SCI)
- XXVIII. **Liquid state N-15 NMR studies of N-15 isotope labeled phthalocyanines**
Atsay A., Gül A., KOÇAK M.
TURKISH JOURNAL OF CHEMISTRY, vol.40, no.1, pp.163-173, 2016 (Journal Indexed in SCI)
- XXIX. **Synthesis, electrochemistry and in situ spectroelectrochemistry of novel hexadeca-substituted phthalocyanines with three different groups**
Kurt O., Koca A., Gül A., KOÇAK M.
SYNTHETIC METALS, vol.206, pp.72-83, 2015 (Journal Indexed in SCI)
- 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. Ş. , Koçak M.

NEW JOURNAL OF CHEMISTRY, vol.39, no.7, pp.5767-5775, 2015 (Journal Indexed in SCI)

- XXXI. **Microwave-assisted synthesis, electrochemistry and spectroelectrochemistry of amphiphilic phthalocyanines**
Guzel E., Koca A., Gül A., KOCAK M.
SYNTHETIC METALS, vol.199, pp.372-380, 2015 (Journal Indexed in SCI)
- XXXII. **Electropolymerization of Octakis Diethylamino Substituted Metallophthalocyanines and Their Electrochromic Characterization**
Aydemir M., KARAOGLU H. R. P., Kocak M., Koca A.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.162, no.3, 2015 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- XXXIV. **A new hexadeca substituted non-aggregating zinc phthalocyanine**
Atsay A., GUL A., Kocak M.
DYES AND PIGMENTS, vol.100, pp.177-183, 2014 (Journal Indexed in SCI)
- XXXV. **The synthesis and electrochemistry of novel, symmetrical, octasubstituted phthalocyanines**
Karaoglu H. R. P., Koca A., Kocak M.
SYNTHETIC METALS, vol.182, pp.1-8, 2013 (Journal Indexed in SCI)
- XXXVI. **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 (Journal Indexed in SCI)
- XXXVII. **Synthesis, electrochemical and spectroelectrochemical characterization of novel soluble phthalocyanines bearing chloro and quaternizable bulky substituents on peripheral positions**
Karaoglu H. R. P., Koca A., Kocak M.
DYES AND PIGMENTS, vol.92, no.3, pp.1005-1017, 2012 (Journal Indexed in SCI)
- XXXVIII. **Synthesis, electrochemistry and in situ spectroelectrochemistry of water-soluble phthalocyanines**
Atsay A., Koca A., Kocak M.
TRANSITION METAL CHEMISTRY, vol.34, no.8, pp.877-890, 2009 (Journal Indexed in SCI)
- XXXIX. **Novel phthalocyanines with naphthalenic substituents**
ŞENER M. K., GUEL A., Kocak M.
TRANSITION METAL CHEMISTRY, vol.33, no.7, pp.867-872, 2008 (Journal Indexed in SCI)
- XL. **Structural and optical studies of tetra (tricarboethoxy)-substituted metallophthalocyanines**
Sorar I., ŞENER M. K., TEPEHAN F. Z., GUEL A., Koçak M.
THIN SOLID FILMS, vol.516, no.10, pp.2894-2898, 2008 (Journal Indexed in SCI)
- XLI. **Synthesis, electrochemistry and in situ Spectroelectrochemistry of soluble lead phthalocyanines**
Dincer H. A., ŞENER M. K., Koca A., GUL A., Koçak M.
ELECTROCHIMICA ACTA, vol.53, no.9, pp.3459-3467, 2008 (Journal Indexed in SCI)
- XLII. **Synthesis and characterization of a new tetracationic phthalocyanine**
Karaoglu H. R. P., GUEL A., KOCAK M.
DYES AND PIGMENTS, vol.76, no.1, pp.231-235, 2008 (Journal Indexed in SCI)
- XLIII. **Novel phthalocyanines bearing both quaternizable and bulky substituents**
Dincer H. A., KOCA A., Gul A., KOCAK M.
DYES AND PIGMENTS, vol.76, no.3, pp.825-831, 2008 (Journal Indexed in SCI)
- XLIV. **Synthesis and electrochemical characterization of biphenyl-malonic ester substituted cobalt, copper, and palladium phthalocyanines**
Sener M. K., KOCA A., GUEL A., KOCAK M.
POLYHEDRON, vol.26, no.5, pp.1070-1076, 2007 (Journal Indexed in SCI)
- XLV. **Tuning of phthalocyanine absorption ranges by additional substituents**
Dincer H. A., GUL A., Kocak M.
DYES AND PIGMENTS, vol.74, no.3, pp.545-550, 2007 (Journal Indexed in SCI)

- XLVI. **Investigation of the electrocatalytic activity of metalphthalocyanine complexes for hydrogen production from water**
Koca A., SENER M. K. , KOÇAK M., Gul A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.31, no.15, pp.2211-2216, 2006 (Journal Indexed in SCI)
- XLVII. **Spectroelectrochemical characterization and controlled potential chronocoulometric demetallation of tetra- and octa-substituted lead phthalocyanines**
Koca A., DINCER H. A. , CERLEK H., GUL A., Kocak M.
ELECTROCHIMICA ACTA, vol.52, no.3, pp.1199-1205, 2006 (Journal Indexed in SCI)
- XLVIII. **EPR studies on Cu²⁺ and Co²⁺ complexes of tetraaza porphyrin derivatives**
Guner S., SENER M. K. , DINCER H., Koseoglu Y., Kazan S., Koçak M.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.300, no.1, 2006 (Journal Indexed in SCI)
- XLIX. **Structure of Di tert butyl 3 4 dicyanophenyl hydroxy malonate**
Koçak M.
ANALYTICAL SCIENCES, vol.0, no.22, pp.73-0, 2006 (Journal Indexed in SCI Expanded)
- L. **Electrochemical characterization of Co(II) and Pd(II) phthalocyanines carrying diethoxymalonyl and carboxymethyl substituents**
Koca A., DINCER H., Kocak M., GUL A.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.42, no.1, pp.31-37, 2006 (Journal Indexed in SCI)
- LI. **Diethyl 2-(3,4-dicyanophenyl)-2-[(2-naphthyl)methyl] malonate**
Yildirim S., AKKURT M. C. , SENER M., Kocak M., FUN H.
ACTA CRYSTALLOGRAPHICA SECTION E-CRYSTALLOGRAPHIC COMMUNICATIONS, vol.61, 2005 (Journal Indexed in SCI)
- LII. **Electrochemical characterization of phthalocyanine derivatives carrying a bulky triester unit on each benzo group**
Koca A., SENER M., Kocak M., GUL A.
TRANSITION METAL CHEMISTRY, vol.30, no.4, pp.399-403, 2005 (Journal Indexed in SCI)
- LIII. **Synthesis and spectral properties of tetra and octa substituted lead phthalocyanines**
DİNÇER H., Hatice c., GÜL A., KOÇAK M.
Main Group Chemistry, no.4, pp.209, 2005 (Journal Indexed in SCI)
- LIV. **Electrochemical, spectroelectrochemical, and pyridine binding properties of tetrathia macrocycle-bridged dimeric cobalt phthalocyanine**
Yilmaz I., KOÇAK M.
POLYHEDRON, vol.23, no.7, pp.1279-1285, 2004 (Journal Indexed in SCI)
- LV. **A novel route to 4-chloro-5-alkyl-phthalonitrile and phthalocyanines derived from it**
Dincer H., Gul A., KOÇAK M.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.8, no.10, pp.1204-1208, 2004 (Journal Indexed in SCI)
- LVI. **A new double-decker Lu(III) diphthalocyanine with eight peripheral benzo(15-crown-5) units**
Kocak M., CIHAN A., GURSOY S., OKUR A., GUL A., BEKAROGLU O.
SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, vol.33, no.9, pp.1527-1533, 2003 (Journal Indexed in SCI)
- LVII. **Synthesis of tetra tricarbethoxy and tetra dicarboxy substituted soluble phthalocyanines**
ŞENER M. K. , GÜL A., KOÇAK M.
Journal of porphyrins and Phthalocyanines, no.7, pp.617, 2003 (Journal Indexed in SCI Expanded)
- LVIII. **Synthesis and complexation of a novel soluble vic-dioxime ligand**
Gursoy S., CIHAN A., Kocak M., BEKAROGLU O.
MONATSHEFTE FÜR CHEMIE, vol.132, no.8, pp.967-972, 2001 (Journal Indexed in SCI)
- LIX. **Synthesis of new metal-free and metal-containing phthalocyanines with tertiary or quaternary aminoethyl substituents**
Gursoy S., CIHAN A., Kocak M., BEKAROGLU O.
MONATSHEFTE FÜR CHEMIE, vol.132, no.7, pp.813-819, 2001 (Journal Indexed in SCI)
- LX. **Double-decker lutetium(III) diphthalocyanine with eight crown ether substituents**

- Kocak M.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.4, no.8, pp.742-744, 2000 (Journal Indexed in SCI)
- LXI. **Novel crown ether-substituted phthalocyanines**
Kocak M., CIHAN A., OKUR A., Gul A., BEKAROGLU O.
DYES AND PIGMENTS, vol.45, no.1, pp.9-14, 2000 (Journal Indexed in SCI)
- LXII. **Copper(II) and palladium(II) complexes of N,N'-bis(2-hydroxyethyl)stilbenediamine**
Kocak M.
TRANSITION METAL CHEMISTRY, vol.25, no.2, pp.231-233, 2000 (Journal Indexed in SCI)
- LXIII. **Synthesis and characterization of a new 2,2'-azoquinoxaline and its complexes with platinum and palladium**
Gursoy S., Kocak M., Bekaroglu O.
MONATSHEFTE FÜR CHEMIE, vol.131, no.2, pp.181-185, 2000 (Journal Indexed in SCI)
- LXIV. **Synthesis and complexation of a novel soluble vic-dioxime with hydroxyethyl pendant arms**
Gursoy S., Kocak M., CIHAN A., GUL A., BEKAROGLU O.
TRANSITION METAL CHEMISTRY, vol.25, no.4, pp.474-477, 2000 (Journal Indexed in SCI)
- LXV. **Synthesis and complexation of a novel soluble vic-dioxime**
Kocak M., BEKAROGLU O.
JOURNAL OF COORDINATION CHEMISTRY, vol.47, no.2, pp.359-368, 1999 (Journal Indexed in SCI)
- LXVI. **Protonation and Coordination Properties of four 14 Membered Tetraaza macrocycles Symmetrically linked to Phthalocyanines**
AVCIATA U., bozdoğan A., KOÇAK M., GÜL A., Ali İhsan O., Bekaroğlu Ö.
Monatshefte für Chemie, no.130, pp.283, 1999 (Journal Indexed in SCI Expanded)
- LXVII. **Catalytic decomposition of hydrogen peroxide with crowned ether phthalocyanines**
Ion R. M., KOÇAK M., Özer B.
Progress in Catalysis, vol.7, pp.113-118, 1998 (Journal Indexed in SCI Expanded)
- LXVIII. **INVESTIGATIONS OF THE INTERACTION OF 4',5'-BIS(SALICYLIDENEIMINO) BENZO-15-CROWN-5 WITH TRANSITION AND ALKALI METAL IONS AND THE URANYL CATION**
Avcıata U., BOZDOĞAN A., Koçak M., GUL A., BEKAROGLU O.
JOURNAL OF COORDINATION CHEMISTRY, vol.35, pp.319-323, 1995 (Journal Indexed in SCI)
- LXIX. **NOVEL 2-FOLD-MACROCYCLE-SUBSTITUTED PHTHALOCYANINES**
KOC AK M., OKUR A., BEKAROGLU O.
JOURNAL OF THE CHEMICAL SOCIETY-DALTON TRANSACTIONS, no.3, pp.323-326, 1994 (Journal Indexed in SCI)
- LXX. **SYNTHESIS AND CHARACTERIZATION OF PHTHALOCYANINES CONTAINING 4 14-MEMBERED TETRAAZA MACROCYCLES**
KOC AK M., GUREK A., GUL A., BEKAROGLU O.
CHEMISCHE BERICHTE, vol.127, no.2, pp.355-358, 1994 (Journal Indexed in SCI)
- LXXI. **SYNTHESIS AND CHARACTERIZATION OF NOVEL PHTHALOCYANINES SUBSTITUTED WITH 4 TETRAAZA MACROCYCLES**
KOC AK M., CIHAN A., OKUR A., BEKAROGLU O.
JOURNAL OF THE CHEMICAL SOCIETY-CHEMICAL COMMUNICATIONS, no.8, pp.577-578, 1991 (Journal Indexed in SCI)
- LXXII. **THE SYNTHESIS AND COMPLEX-FORMATION OF N-(2-METHYLPYRIDYL)AMINOGLYOXIME**
KOC AK M., BEKAROGLU O.
SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, vol.15, no.4, pp.479-491, 1985 (Journal Indexed in SCI)
- LXXIII. **SYNTHESIS OF ETHANE-1,2-BIS(THIOGLYOXIME) AND ITS COMPLEXES WITH NICKEL(II), COPPER(II), COBALT(III), CADMIUM(II), AND URANYL(VI)**
KOC AK M., BEKAROGLU O.
SYNTHESIS AND REACTIVITY IN INORGANIC AND METAL-ORGANIC CHEMISTRY, vol.14, no.5, pp.689-701, 1984 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **PDT Uygulamaları İçin Non-Periferal Konumlarda 3,5-Bis(Triflorometil)Fenoksi Gruplarını İçeren Yeni Tetrasüstitüe Çinko Ftalosiyanın Sentezi** 31. Ulusal Kim ya Kongresi
Çelik Ç., SAĞLAM Ö., KOÇAK M.
31. Ulusal Kim ya Kongresi, Turkey, 10 - 13 September 2019
- II. **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 Kim ya Kongresi, Turkey, 10 - 13 September 2019
- III. **A NEW TYPE OF TETRASUBSTITUTED ZINC PHTHALOCYANINECONTAINING 3,5 - BIS(TRIFLUOROMETHYL)PHENOXY GROUPS ATPERIPHERAL POSITIONS**
KORKMAZ E., AHMETALİ E., PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
International Congress on Fundamental and Applied Sciences, Macedonia, 18 - 22 June 2018
- IV. **Synthesis, Characterization, and Spectral Properties of a Novel Symmetrical Indium Phthalocyanine**
Farajzadeh N., PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
International Congress on Fundamental and Applied Sciences, Macedonia, 18 - 22 June 2018
- V. **Synthesis, Characterization and Spectral Properties of a Novel Symmetrical Palladium Phthalocyanine**
Farajzadeh N., PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
20. Frühjahrssymposium-FJS, konstan, Germany, 21 - 24 March 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.
The congress of International Turkish World Engineering and Science, 7 - 10 December 2017
- VII. **Synthesis And Characterization Of New Tetrasubstituted Phthalocyanines With Fluoride Groups For Third-Order Nonlinear Optical Applications**
PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
4. International Turk-Pak Conference on Chemical Sciences, 26 - 28 October 2017
- VIII. **Novel Phthalocyanines for Nonlinear Optic Applications**
PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
8. International Advanced Technologies Symposium, 19 - 22 October 2017
- IX. **A New Zinc Phthalocyanine Substituted with 4-(Trifluoromethoxy)-Thiophenol Groups**
SAĞLAM Ö., PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
3. International Turkic World Conference on Chemical Sciences and Technologies, 10 - 13 September 2017
- X. **Crystal Structure of Ferrocenyl Conjugated Phthalocyanine**
ILGIN N., ATSAY A., HAMURYUDAN E., KOÇAK M., GÜL A.
4th European Crystallography School, 2 - 07 July 2017
- XI. **Synthesis, Characterization, and Spectral Properties of a Novel Octasubstituted Zinc Phthalocyanine**
Farajzadeh N., PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
19. JCF-Frühjahrssymposium, 29 March - 01 April 2017
- XII. **X Ray Structures of New hexadeca Substituted Phthalocyanines**
ATSAY A., KOÇAK M.
14th International Congress of Young chemists, Czestochowa, Poland, 5 - 09 October 2016
- XIII. **Synthesis And Characterization Of A New Palladium Phthalocyanine Substituted With 3 5 Bis Trifluoromethyl Phenoxy Groups**
Ahmetali E., PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
The 11th International Symposium on Macrocyclic and Supramolecular Chemistry, Seoul, South Korea, 10 - 14 July 2016
- XIV. **Synthesis Characterization And Spectral Properties of A Novel Tetrasubstituted Zinc Phthalocyanine**
Farajzadeh N., PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
ISMEC 2016 International Symposium On Metal Complexes, Barcelona, Spain, 7 - 10 June 2016

- XV. **A Novel Octasubstituted Zinc Phthalocyanine Containing 4 Trifluoromethoxy Thiophenol Groups**
PEKBELGİN KARAOĞLU H. R. , SAĞLAM Ö., KOÇAK M.
ISMEC 2016 International Symposium On Metal Complexes, Barcelona, Spain, 7 - 10 June 2016
- XVI. **New Type Of Phthalocyanines Containing 3 5 Bis Trifluoromethyl Phenoxy Groups At Peripheral Positions**
Ahmetali E., PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
18th JCF-Frühjahrssymposium, Kiel, Germany, 16 - 19 March 2016
- XVII. **Microwave Assisted Synthesis of Novel Hexadeca Substituted Indium (III) Phthalocyanine**
ATSAY A., GÜL A., KOÇAK M.
International Conference on Porphyrins and Phthalocyanines, 22 - 27 June 2014
- XVIII. **Synthesis and Photophysical Properties of Octasubstituted Zinc(II)Phthalocyanine**
PEKBELGİN KARAOĞLU H. R. , YENİLMEZ H. Y. , KOÇAK M.
International Conference on Porphyrins and Phthalocyanines, 22 - 27 June 2014
- XIX. **Microwave Assisted Synthesis of Novel Hexadeca Substituted Indium (III) Phthalocyanine, International Conference on Porphyrins and Phthalocyanines**
Kurt Ö., GÜL A., KOÇAK M.
International Conference on Porphyrins and Phthalocyanines, 22 - 27 June 2014
- XX. **Synthesis and Characterization of Novel Hexadeca-substituted Phthalocyanines**
PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
XIV European Symposium on Organic Reactivity, 1 - 09 September 2013
- XXI. **Hsqc And Adequate Spectra Of A Phthalonitrile Derivative**
ATSAY A., KOÇAK M.
Turkish NMR Meeting, Turkey, 5 - 07 December 2012
- XXII. **Synthesis of New Hexadeca Substituted Cobalt Phthalocyanine and Their Characterization**
Kurt Ö., GÜL A., KOÇAK M.
Paint İstanbul, İstanbul, Turkey, 13 September - 15 February 2012
- XXIII. **Novel Gallium and Indium Phthalocyanines for PDT**
PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
Organic Synthesis Symposium, 15 - 20 July 2012
- XXIV. **1D and 2D NMR Studies on a Nonaggregated Zinc Phthalocyanine as a Constitutional Isomer Mixture**
ATSAY A., GÜZEL E., Ceremonii M. A. , KOÇAK M.
Euromar 2012 Magnetic Resonance Conference, 1 - 05 July 2012
- XXV. **Amphiphilic phthalocyanines by three different substituents on each benzo moiety**
Kurt Ö., KOÇAK M., GÜL A.
Acta of the International Symposia on Metal Complexes, 18 - 22 June 2012
- XXVI. **Synthesis and Photophysical Properties of Hexadeca-Substituted Phthalocyanine-Naphtol Dyads**
Kurt Ö., ÖZÇEŞMECİ İ., GÜL A., KOÇAK M.
7th Eurasian Meeting On Heterocyclic Chemistry, 17 - 21 June 2012
- XXVII. **Fully Substituted Zinc Phthalocyanines with Quinolinoxyl Groups**
Kurt Ö., GÜL A., KOÇAK M.
7th Eurasian Meeting On Heterocyclic Chemistry, 17 - 21 June 2012
- XXVIII. **Fully Substituted Zinc Phthalocyanine with Minimal Aggregation in Water,**
ATSAY A., GÜL A., KOÇAK M.
1st International Symposium on Secondary Metabolites, 12 - 15 September 2011
- XXIX. **Amphiphilic Zinc (II), Gallium (III) and Indium (III) Phthalocyanines for Photodynamic Cancer Therapy**
GÜZEL E., GÜL A., KOÇAK M.
1st International Symposium of Secondary Metabolites: Chemical, Biological and Biotechnological Properties (ISSMET), 12 - 15 September 2011
- XXX. **Microwave Assisted Synthesis of a Water Soluble Aluminium Phthalocyanine for Photodynamic Therapy,**

- ATSAY A., GÜL A., KOÇAK M.
1st International Symposium on Secondary Metabolites, 12 - 15 September 2011
- XXXI. **Solvent Effects on the UV-Vis Spectra of a Zinc Phthalocyanine Fully Substituted With Amphiphilic Groups,**
ATSAY A., GÜL A., KOÇAK M.
14th IUPAC International Symposium on Macromolecular Complexes, 14 August 2011
- XXXII. **Microwave-Assisted Synthesis and Characterization of Tetracationic Gallium Phthalocyanine,**
ATSAY A., GÜL A., KOÇAK M.
14th IUPAC International Symposium on Macromolecular Complexes, 14 - 17 August 2011
- XXXIII. **İki Farklı Grupla Hegzadeka Süstitüe Yeni Bir Ftalosiyanın Sentezi ve Karakterizasyonu**
ATSAY A., GÜL A., KOÇAK M.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011
- XXXIV. **Üç Farklı Grupla Ful Süstitüe Ftalosiyanınların Sentezi Ve Karakterizasyonu**
Kurt Ö., GÜL A., KOÇAK M.
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011
- XXXV. **Yeni Hegzadeka Süstitüe Amfililik İndiyum Ftalosiyanın Sentezi ve Karakterizasyonu**
GÜZEL E., KOÇAK M., GÜL A.
III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 19 - 22 May 2011
- XXXVI. **Microwave-Assisted Synthesis of Water-Soluble Indium Phthalocyanine,**
ATSAY A., KOÇAK M.
III. Ulusal Anorganik Kimya Kongresi, Çanakkale, Turkey, 19 - 22 May 2011
- XXXVII. **Novel Hexadeca-Substituted Amphiphilic Phthalocyanines**
GÜZEL E., GÜL A., KOÇAK M.
Paint İstanbul, Turkey, 23 - 26 September 2010
- XXXVIII. **Octakis(diethylaminophenoxy)- Substituted Water Soluble Cobalt Phthalocyanine**
PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
Paint İstanbul, Turkey, 23 - 26 September 2010
- XXXIX. **Synthesis of new phthalocyanines with diethylamino-phenoxy and hexylsulfanyl substituents on peripheral positions**
PEKBELGİN KARAOĞLU H. R. , GÜL A., KOÇAK M.
3rd EuCheMS Chemistry Congress Nürnberg, 29 August - 02 September 2010
- XL. **Hexadeca-substituted Amphiphilic Phthalocyanine,**
ATSAY A., GÜL A., KOÇAK M.
3rd EuCheMS Chemistry Congress, 29 August - 02 September 2010
- XLI. **Preparation of Novel Tetraquaternized Soluble Phthalocyanines**
PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
IV. International Symposium on Macrocyclic Supramolecular Chemistry, 21 - 25 June 2009
- XLII. **Farklı Süstitüentler İçeren Yeni Oktasüstitüe Ftalosiyanınlar**
PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
XXII. Ulusal Kimya Kongresi, Turkey, 6 - 10 October 2008
- XLIII. **Synthesis of Novel Phthalocyanines with Different Substituents, Torino, İtalya**
PEKBELGİN KARAOĞLU H. R. , KOÇAK M.
2nd EuCheMS Chemistry Congress Chemistry: The Global Science, 29 August - 02 September 2008
- XLIV. **Hacimli Gruplar İçeren Kurşun Ftalosiyanimler**
DİNÇER H., ŞENER M. K. , KOÇAK M., GÜL A.
XXI. Ulusal Kimya Kongresi, Turkey, 23 - 27 August 2007
- XLV. **Novel Water Soluble Copper Phthalocyanine, ,**
PEKBELGİN KARAOĞLU H. R. , KOÇAK M., GÜL A.
9. Figipas Meeting in Inorganic Chemistry, Viyana, 4 - 07 July 2007
- XLVI. **Lead Phthalocyanines with Different Substituents,**
Çerlek H., DİNÇER H., GÜL A., KOÇAK M.

- XXX. International Symposium on Macrocyclic Chemistry, Dresden, Germany, 17 - 21 July 2005
- XLVII. **Investigation of Donor Properties of Tetrapyrrolyl-Phthalocyanines**
PEKBELGİN KARAOĞLU H. R. , GÜL A., KOÇAK M.
XXX. International Symposium on Macrocyclic Chemistry, Dresden, Germany, 17 - 21 July 2005
- XLVIII. **Quaternary Phthalocyanines With Two Different Substituents,**
DİNÇER H., GÜL A., KOÇAK M.
XXX. International Symposium on Macrocyclic Chemistry, Dresden, Germany, 17 - 21 July 2005
- XLIX. **A Novel Route to 4-alkylthio-5-alkyl-phthalonitrile and phthalocyanine derived from it**
DİNÇER H., KOÇAK M.
Third International Conference on Porphyrins and Phthalocyanines, 11 - 16 July 2004
- L. **İki Farklı Sübstitüent İçeren Yeni Ftalosiyanimler**
DİNÇER H., KOÇAK M.
XVIII. Ulusal Kimya Kongresi, Turkey, 5 - 09 July 2004
- LI. **Tetra Pridil Ftalosiyanimlerin Donör Özelliklerinin İncelenmesi XVIII. Ulusal Kimya Kongresi**
PEKBELGİN KARAOĞLU H. R. , GÜL A., KOÇAK M.
XVIII. Ulusal Kimya Kongresi, Turkey, 5 - 09 July 2004
- LII. **Naftil-Malonik Ester Sübstitüe Yeni Ftalosiyanimler**
ŞENER M. K. , KOÇAK M.
XVIII. Ulusal Kimya Kongresi, Turkey, 05 July 2004
- LIII. **Bazı Ftalosiyanim türevlerinin Elektrokimyasal İncelenmesi Kimya-2003 XVII. Ulusal Kimya Kongresi 8-11 Eylül 2003-İstanbul**
KOCA A., ŞENER M. K. , GÜL A., KOÇAK M.
XVII. Ulusal Kimya Kongresi, Turkey, 8 - 11 September 2003
- LIV. **Farklı Sübstitüentli Ftalosiyanim Komplekslerinin Elektrokimyasal İncelenmesi Kimya-2003i 8-11 Eylül 2003-İstanbul**
KOCA A., DİNÇER H., GÜL A., KOÇAK M.
XVII. Ulusal Kimya Kongres, Turkey, 8 - 11 September 2003
- LV. **Triester Yapısında Sübstitüentler İçeren Ftalosiyanimler**
ŞENER M. K. , GÜL A., KOÇAK M.
XVI. Ulusal Kimya Kongresi, Konya, Turkey, 9 - 11 September 2002
- LVI. **Yeni Bir Yöntemle Klor Alkil Ftalodinitril Türevlerinin Sentezi ve Ftalosiyanimlerinin Hazırlanması**
Akn H., GÜL A., KOÇAK M.
XVI. Ulusal Kimya Kongresi, Konya, Turkey, 9 - 11 September 2002
- LVII. **Dört Asetilbenzo (15-Crown- 5) Üniteleri İçeren Yeni Lutesyum(III)Bis (Ftalosiyanim) Kompleksi**
Gürsoy S., KOÇAK M., Cihan A., Okur A. İ. , GÜL A., Bekaroğu Ö.
XIV. Ulusal Kimya Kongresi, Diyarbakır, Turkey, 10 - 15 September 2000
- LVIII. **Oktakis(dimetilaminoetilsulfanil) Sübstitüe Ftalosiyanimler**
KOÇAK M., Gürsoy S., Cihan A., Bekaroğu Ö.
XIV. Ulusal Kimya Kongresi, Diyarbakır, Turkey, 10 - 15 September 2000
- LIX. **Synthesis and Characterisation of the Novel Asymmetrically Substituted Phthalocyanines**
HAMURYUDAN E., BAYIR Z., KOÇAK M., Merey Ş., GÜL A., Bekaroğu Ö.
First International Conference on Porphyrins and Phthalocyanines, Dijon, France, 25 - 28 June 2000
- LX. **A New Double-Decker Lu(IV) Diphthalocyanines with Peripheral Eight Benzo (15-Crown-Ether) Units**
KOÇAK M., Gürsoy S., Cihan A., Okur A. İ. , GÜL A., Bekaroğu Ö.
First International Conference on Porphyrins and Phthalocyanines, Dijon, France, 25 - 28 June 2000
- LXI. **Synthesis of Octakis(dimethylaminoethylsulfanyl) Substituted Metal Free and Metallo-Phthalocyanines**
Gürsoy S., KOÇAK M., Cihan A., Bekaroğu Ö.
First International Conference on Porphyrins and Phthalocyanines, Dijon, France, 25 - 28 June 2000
- LXII. **Synthesis and Complexation of a Novel Soluble vic-Dioxime.**

- KOÇAK M., Cihan A., Gürsoy S., GÜL A., Bekaroğlu Ö.
European Mediterranean Conference in Inorganic Chemistry, Toulouse, France, 26 - 29 October 1999
- LXIII. **Double-Decker Lutetium(III) Diphthalocyanine with Eight Crown Ether substituents**
KOÇAK M.
European Mediterranean Conference in Inorganic Chemistry, Toulouse, France, 26 - 29 October 1999
- LXIV. **Taç Eterli Ftalosiyanimler**
KOÇAK M., GÜL A., Bekaroğlu Ö., Okur A. İ., CİHAN A.
XIII. Ulusal Kimya Kongresi, Turkey, 31 August - 04 September 1999
- LXV. **5,6-Bis(Salisilidenimino)-1,10-Fenantrolin Komplekslerinin Sentezi ve Karakterizasyonu**
AVCIATA U., DEMİRHAN N., KOÇAK M., GÜL A.
99 XIII. Ulusal Kimya Kongresi, Turkey, 31 August - 04 September 1999
- LXVI. **N-N'-Dihidroksi Etil Stilben- Diamin'den Yeni Bir vic Dioksim Sentezi ve Komplekslerinin Hazırlanması**
CİHAN A., KOÇAK M., Gürsoy S., GÜL A., Bekaroğlu Ö.
XIII. Ulusal Kimya Kongresi, Turkey, 31 August - 04 September 1999
- LXVII. **Novel Crown Ether Substituted Phthalocyanines**
KOÇAK M., cihan a., Okur A. İ., GÜL A., Bekaroğlu Ö.
2nd International Symposium on Phthalocyanines, Edinburgh, Saint Helena, 21 - 23 September 1998
- LXVIII. **Yeni bir Substitue vic Diaminoglioksim ve Komplekslerinin Sentezi ve Özelliklerinin İncelenmesi**
KOÇAK M., Bekaroğlu Ö.
XI. Kimya Kongresi, Turkey, 16 - 20 June 1997
- LXIX. **14-Üyeli Tetraaza Halkalarını İçeren Simetrik Ftalosiyanimlerin Sentezi**
Gürek A., KOÇAK M., GÜL A., Bekaroğlu Ö.
IX. ve Kimya Mühendisliği Simpozyumu, Turkey, 12 - 17 September 1993
- LXX. **Taç Eter ve Tetraaza halkalarını Birlikte İçeren Ftalosiyanimler**
Bekaroğlu Ö., KOÇAK M., Okur A. İ.
93 IX. ve Kimya Mühendisliği Simpozyumu 1993-Trabzon, Trabzon, Turkey, 12 - 17 September 1993
- LXXI. **Synthesis and Characterization of Phthalocyanines Substituted With Four Tetraaza Macrocycles**
KOÇAK M., Bekaroğlu Ö.
Schweizerische Chemische Gesellschaft- Herbst- Versammlung, Bern, Switzerland, 19 - 22 October 1990

Supported Projects

Koçak M., Project Supported by Higher Education Institutions, Yeni Push-Pull Ftalosiyanimlerin Sentezi ve Nonlineer Optik Uygulamalarının Araştırılması, 2016 - 2019

Koçak M., Project Supported by Higher Education Institutions, 3,5-bis(triflorometil)fenoksi Grupları İçeren Yeni bir Paladyum Ftalosiyanimin Sentezi ve Karakterizasyonu, 2016 - 2018

Koçak M., Project Supported by Higher Education Institutions, Triflorometil Grupları İçeren Metalli Ftalosiyanimlerin Sentezi ve Karakterizasyonu, 2016 - 2017

Koçak M., Project Supported by Higher Education Institutions, Hekzadeka Sübstitüe Ftalosiyanimler, 2013 - 2016

Koçak M., Project Supported by Higher Education Institutions, Yeni Hegzadeka Sübstitüe Amfifilik Ftalosiyanimler, 2012 - 2016

Koçak M., TUBITAK Project, 15N İzotop İşNretlenmiş Metalli ve Metalsiz Ftalosiyanimlerin Sentezi ve 15N NMR larının İncelenmesi, 2014 - 2015

Koçak M., Project Supported by Higher Education Institutions, Suda Çözünebilen Yeni Ftalosiyanimlerin Sentezi ve Fotofiziksel Özellikleri, 2009 - 2013

Koçak M., Project Supported by Higher Education Institutions, Suda Çözünür Hegzadeka Sübstitüe Ftalosiyanimler, 2010 - 2012

Koçak M., Project Supported by Higher Education Institutions, Yeni Amfifilik Ftalosiyanimlerin Sentezi, 2010 - 2012

Koçak M., TUBITAK Project, Kanserin Fotodinamik Tedavisinde Fotoalgılayıcılar Olarak Yeni Amfifilik Ftalosiyanimler,

2010 - 2012

Koçak M., Project Supported by Higher Education Institutions, Hacimli Gruplar İçeren Yani Ftalosiyanimler, 2006 - 2008

Koçak M., Project Supported by Higher Education Institutions, Hacimli Esterik Süstitüenler İçeren Ftalosiyanimler, 2004 - 2005

Koçak M., Project Supported by Higher Education Institutions, Alkil Flatodinitril Tüevlerinin Sentezi ve Ftalosiyanimlerin Hazırlanması, 2003 - 2004

Koçak M., Project Supported by Higher Education Institutions, Periferial dentritic süstitüenlar içeren ftalosiyanimler, 2002 - 2004

Koçak M., Project Supported by Higher Education Institutions, Ftalosiyanimlerin Sıvı Kristal Özelliklerinin DSC ile İncelenmesi, 1999 - 2001

Scientific Refereeing

Tetrahedron, SCI Journal, September 2017

Edit Congress and Symposium Activities

Novel Phthalocyanines for Nonlinear Optic Applications, Attendee, Elazığ, Turkey, 2017

Synthesis and Characterization of New Tetrasubstituted Phthalocyanines with Fluoride Groups for Third-Order Nonlinear Optical Applications, Attendee, Konya, Turkey, 2017

A New Zinc Phthalocyanine Substituted with 4-(Trifluoromethoxy)-Thiophenol Groups, Attendee, Baku, Azerbaijan, 2017

Citations

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Non Academic Experience

Business Establishment Private, Özel Uğur Dersanesi