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Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2004 - 2010

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Kimyagerlik (YI) (Tezli), Turkey 2001 - 2004

Undergraduate, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1997 - 2001

Foreign Languages

English

Dissertations

Doctorate, Tetrahirol türevlerinin kil minerallerine adsorpsiyonu, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 2010

Postgraduate, Yeni çözümler ftaloksiyaninlerin sentezi ve agregasyon özelliklerinin incelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimyagerlik (YI) (Tezli), 2004

Research Areas

Chemistry, Inorganic Chemistry, Natural Sciences

Academic Titles / Tasks

Research Assistant, Istanbul Technical University, Fen-Edebiyat, Kimya, 2005 - 2021

Published journal articles indexed by SCI, SSCI, and AHCI

1. Aza-BODIPY photosensitizer substituted with phthalonitrile groups: Synthesis, photophysical properties and in vitro tests for breast cancer

Özçelik Ş., Yurttaş A. G., Kahveci M. Ü., Sevim A. M., Gül A.

JOURNAL OF MOLECULAR STRUCTURE, vol.1271, 2023 (SCI-Expanded)

- II. **The effects of zinc(II)phthalocyanine photosensitizers on biological activities of epitheloid cervix carcinoma cells and precise determination of absorbed fluence at a specific wavelength**
Yurttas A. G., Sevim A. M., Cinar K., YAŞA ATMACA G., ERDOĞMUŞ A., Gül A.
DYES AND PIGMENTS, vol.198, 2022 (SCI-Expanded)
- III. **Double-decker lutetium phthalocyanine functionalized with 4-phenylthia-zol-2-thiol moieties: Synthesis, characterization, electrochemistry, spectroelectrochemistry and electrochromism**
Beduoglu A., BUDAK Ö., Sevim A. M., KOCA A., Bayır Z.
POLYHEDRON, vol.209, 2021 (SCI-Expanded)
- IV. **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)
- V. **Novel Co and Zn-Phthalocyanine dyes with octa-carboxylic acid substituents for DSSCs**
İlgun C., Sevim A. M., ÇAKAR S., ÖZACAR M., Gül A.
SOLAR ENERGY, vol.218, pp.169-179, 2021 (SCI-Expanded)
- VI. **Novel polymers with cobalt(II)phthalocyanine moieties as effective heterogeneous photocatalysts for visible-light-driven photodegradation of organic dyes in aqueous solutions**
Temizel S., Çakır Çanak T., Sevim A. M.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.401, 2020 (SCI-Expanded)
- VII. **Novel metallophthalocyanines with bulky 4-[3,4-bis(benzyloxy)benzylidene]aminophenoxy substituents**
Sevim A. M., Yuzeroglu M., Gül A.
MONATSHFTE FÜR CHEMIE, vol.151, no.7, pp.1059-1068, 2020 (SCI-Expanded)
- VIII. **Thiazole-substituted non-symmetrical metallophthalocyanines: synthesis, characterization, electrochemical and heavy metal ion sensing properties**
Beduoglu A., Sevim A. M., Koca A., Altındal A., Bayır Z.
NEW JOURNAL OF CHEMISTRY, vol.44, pp.5201-5210, 2020 (SCI-Expanded)
- IX. **Electrochemical and photovoltaic properties of highly efficient solar cells with cobalt/zinc phthalocyanine sensitizers**
Sevim A. M., Cakar S., ÖZACAR M., Gül A.
SOLAR ENERGY, vol.160, pp.18-24, 2018 (SCI-Expanded)
- X. **Synthesis and characterization of novel unsymmetrical phthalocyanine/TiO₂ composites and their evaluation as photocatalysts for degradation of 4-chlorophenol under visible light**
Sutculer Y. A., Gezek G., Mahmiani Y., Sevim A. M.
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.3, pp.704-718, 2018 (SCI-Expanded)
- XI. **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)
- XII. **Synthesis and characterization of Zn and Co monocarboxy-phthalocyanines and investigation of their photocatalytic efficiency as TiO₂ composites**
Sevim A. M.
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.832, pp.18-26, 2017 (SCI-Expanded)
- XIII. **Photocatalytic degradation of persistent organic pollutants under visible irradiation by TiO₂ catalysts sensitized with Zn(II) and Co(II) tetracarboxy-phthalocyanines**
Mahmiani Y., SEVIM A. M., Gül A.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.20, pp.1190-1199, 2016 (SCI-Expanded)
- XIV. **Synthesis and characterization of a novel alkoxy substituted gold(III) phthalocyanine**
Bilal C., SEVIM A. M., Gül A.
INORGANIC CHEMISTRY COMMUNICATIONS, vol.69, pp.10-12, 2016 (SCI-Expanded)
- XV. **Photocatalytic degradation of 4-chlorophenol under visible light by using TiO₂ catalysts**

impregnated with Co(II) and Zn(II) phthalocyanine derivatives

Mahmiani Y., SEVIM A. M., Gül A.

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.321, pp.24-32, 2016 (SCI-Expanded)

- XVI. **Synthesis, photochemical and photophysical properties of zinc(II) and indium(III) phthalocyanines bearing fluoroalkynyl functionalized substituents**
Ertunc B., SEVIM A. M., Durmus M., Bayir Z.
POLYHEDRON, vol.102, pp.649-656, 2015 (SCI-Expanded)
- XVII. **Electrochemical, spectroelectrochemical characterization and electropolymerization of 2-(4-methyl-1,3-thiazol-5-yl) ethoxy-substituted manganese and indium phthalocyanines**
Yenilmez H. Y., AKDAG O., SEVIM A. M., Koca A., Bayir Z.
POLYHEDRON, vol.99, pp.244-251, 2015 (SCI-Expanded)
- XVIII. **Synthesis, electrochemical and spectroelectrochemical properties of novel phthalocyanine complexes of manganese, titanium and indium**
Sevim A. M., Yenilmez H. Y., Aydemir M., Koca A., Bayir Z.
ELECTROCHIMICA ACTA, vol.137, pp.602-615, 2014 (SCI-Expanded)
- XIX. **Photophysical properties of anthracenylmethyloxycarbonylmethylsulfanyl-phthalocyanines**
Sevim A. M., ARIKAN S., OZCESMECI İ., GUL A.
SYNTHETIC METALS, vol.183, pp.1-7, 2013 (SCI-Expanded)
- XX. **Synthesis and photophysical properties of novel (trifluoromethyl) phenylethynyl-substituted metallophthalocyanines**
Sevim A. M., Yenilmez H. Y., BAYIR Z. A.
POLYHEDRON, vol.62, pp.120-125, 2013 (SCI-Expanded)
- XXI. **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)
- XXII. **Synthesis and photophysics of new metallo phthalocyanine complexes with thiazole groups and their fluorescence quenching studies with benzoquinone**
Yenilmez H. Y., Sevim A. M., BAYIR Z. A.
SYNTHETIC METALS, vol.176, pp.11-17, 2013 (SCI-Expanded)
- XXIII. **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.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.17, pp.540-547, 2013 (SCI-Expanded)
- XXIV. **Synthesis of unsymmetrical carboxyphthalocyanines by palladium-catalyzed hydroxycarbonylation of iodo-substituted precursors**
de Carcer Garcia I. A., MERT SEVIM A., DE LA ESCOSURA A., TORRES T.
ORGANIC & BIOMOLECULAR CHEMISTRY, vol.11, no.14, pp.2237-2240, 2013 (SCI-Expanded)
- XXV. **Novel water-soluble metallophthalocyanines supported on cotton fabric**
Yildirim O., Sevim A. M., Gül A.
COLORATION TECHNOLOGY, vol.128, no.3, pp.236-243, 2012 (SCI-Expanded)
- XXVI. **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.
MONATSHFTE FÜR CHEMIE, vol.143, no.3, pp.385-400, 2012 (SCI-Expanded)
- XXVII. **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)
- XXVIII. **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.
ACTA BIOLOGICA HUNGARICA, vol.62, no.4, pp.426-440, 2011 (SCI-Expanded)

- XXIX. **Preparation of heterogeneous phthalocyanine catalysts by cotton fabric dyeing**
Sevim A. M., ILGUN C., Gül A.
DYES AND PIGMENTS, vol.89, no.2, pp.162-168, 2011 (SCI-Expanded)
- XXX. **An investigation of the kinetics and thermodynamics of the adsorption of a cationic cobalt porphyrine onto sepiolite**
Sevim A. M., HOJYEV R., Gül A., CELIK M. S.
DYES AND PIGMENTS, vol.88, no.1, pp.25-38, 2011 (SCI-Expanded)
- XXXI. **Near-IR absorbing phthalocyanines**
Arslanoglu Y., SEVIM A. M., HAMURYUDAN E., GUL A.
DYES AND PIGMENTS, vol.68, pp.129-132, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Synthesis and photophysical properties of A3B-type unsymmetrically substituted anthracene-based zinc(II)phthalocyanine**
Temizel S., Sevim A. M.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.7, no.1, pp.107-116, 2020 (Scopus)

Supported Projects

Sevim A. M., Project Supported by Higher Education Institutions, Floro-Alkinil Süstituentleri İçeren Yeni Metalloftalosiyeninlerin Sentezi ve Karakterizasyonu, 2014 - 2018

Sevim A. M., Project Supported by Higher Education Institutions, Antrasenil Süstituentleri ve Ftalosiyenin Çekirdekleri Arasındaki Fotofiziksel Etkileşimler, 2013 - 2018

Sevim A. M., Project Supported by Higher Education Institutions, Potansiyel Heterjenkatalizör Olarak Suda Çözünür Yeni Metallotalosiyeninlerin Sentezi, 2012 - 2018

Sevim A. M., Project Supported by Higher Education Institutions, Fonksiyonel Ester Grupları İçeren Metallsız ve Metalloftalosiyeninler, 2011 - 2018

Metrics

Publication: 73
Citation (WoS): 399
Citation (Scopus): 676
H-Index (WoS): 12
H-Index (Scopus): 16

Non Academic Experience

Universidad Autonoma de Madrid