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Personal Information

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Education Information

Doctorate, Gebze Technical University, Faculty Of Basic Sciences , Department Of Chemistry, Turkey 2007 - 2013

Post Graduate, Gebze Technical University, Faculty Of Basic Sciences , Department Of Chemistry, Turkey 2004 - 2007

Under Graduate, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 1998 - 2003

Dissertations

Doctorate, Hedefli kanser tedavisi için yeni asimetric ftalosiyanimler, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Ve Fen Bilimleri Enstitüsü, Kimya (Dr), 2013

Post Graduate, Trametes versicolor beyaz çürükçül fungusundan lakkaz enziminin saflaştırılması ve kısmi nitelendirilmesi, Gebze Yüksek Teknoloji Enstitüsü, Mühendislik Ve Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2007

Research Areas

Biochemistry, Biotechnology, Chemistry

Academic Titles / Tasks

Associate Professor, Kocaeli University, 2018 - Continues

Assistant Professor, Kocaeli Üniversitesi, Köseköy Meslek Yüksekokulu, 2015 - 2018

Courses

Laboratuvar Teknikleri, Associate Degree, 2016 - 2017, 2017 - 2018

Anorganik Kimya da Ayırma Yöntemleri, Associate Degree, 2017 - 2018

Anorganik Kimya, Associate Degree, 2016 - 2017, 2017 - 2018

Biyokimya, Associate Degree, 2016 - 2017

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

- I. **Synthesis and photodynamic activities of novel silicon(IV) phthalocyanines axially substituted with water soluble groups against HeLa cancer cell line.**
Göksel M., Durmuş M., Biyiklioglu Z.
Dalton transactions (Cambridge, England : 2003), vol.50, pp.2570-2584, 2021 (Journal Indexed in SCI Expanded)
- II. **Novel triazole containing zinc(II)phthalocyanine Schiff bases: Determination of photophysical and**

photochemical properties for photodynamic cancer therapy

Harmandar K., Sağlam M. F. , Şengül İ. F. , Ekineker G., Balçık Erçin P., Göksel Şahin M., Atilla D.
INORGANICA CHIMICA ACTA, vol.519, pp.1-11, 2021 (Journal Indexed in SCI Expanded)

- III. **Improved targeting for photodynamic therapy via a biotin-phthalocyanine conjugate: synthesis, photophysical and photochemical measurements, and in vitro cytotoxicity assay**
Balcik-Ercin P., Cetin M., Goeksel M., DURMUŞ M.
NEW JOURNAL OF CHEMISTRY, vol.44, no.8, pp.3392-3401, 2020 (Journal Indexed in SCI)
- IV. **Synthesis of both peripheral and non-peripheral substituted metal-free phthalocyanines and characterization**
Ekineker G., Göksel M.
TETRAHEDRON, vol.76, no.5, 2020 (Journal Indexed in SCI)
- V. **Blue Copper Peroxidase and Phthalocyanine Conjugate: Synthesis, Characterization, and Applications**
Göksel Şahin M.
BIOCONJUGATE CHEMISTRY, vol.30, pp.679-697, 2019 (Journal Indexed in SCI)
- VI. **Novel Water-Soluble Silicon(IV) Phthalocyanine for Photodynamic Therapy and Antimicrobial Inactivations**
Omeroglu I., Goksel M., Kussovski V., Mantareva V., Durmus M.
MACROHETEROCYCLES, vol.12, no.3, pp.255-263, 2019 (Journal Indexed in SCI)
- VII. **A novel of PEG-conjugated phthalocyanine and evaluation of its photocytotoxicity and antibacterial properties for photodynamic therapy**
Uslan C., İşleyen N. D. , Öztürk Y., Yildiz B. T. , Çakar Z. P. , Göksel M., Durmuş M., Gürsel Y. H. , Sesalan B. Ş.
Journal of Porphyrins and Phthalocyanines, vol.22, pp.10-24, 2018 (Journal Indexed in SCI)
- VIII. **Photophysicochemical, calf thymus DNA binding and in vitro photocytotoxicity properties of tetramorpholinoethoxy-substituted phthalocyanines and their water-soluble quaternized derivatives**
Koçan H., Kaya K., Özçeşmeci İ., Sesalan B. Ş. , Göksel M., Durmuş M., Burat A. K.
Journal of Biological Inorganic Chemistry, vol.22, no.8, pp.1251-1266, 2017 (Journal Indexed in SCI)
- IX. **Phthalocyanine-BODIPY dye: synthesis, characterization, and utilization for pattern recognition of CYFRA 21-1 in whole blood samples**
Stefan-van Staden R., Comnea-Stancu I. R. , Yanık H., Göksel M., Alexandru A., Durmuş M.
Analytical and Bioanalytical Chemistry, vol.409, pp.6195-6203, 2017 (Journal Indexed in SCI)
- X. **Silicon(IV) phthalocyanine-biotin conjugates: Synthesis, photophysicochemical properties and in vitro biological activity for photodynamic therapy**
Gülmez A. D. , Göksel M., Durmuş M.
Journal of Porphyrins and Phthalocyanines, vol.21, pp.547-554, 2017 (Journal Indexed in SCI)
- XI. **The water soluble axially disubstituted silicon phthalocyanines: photophysicochemical properties and in vitro studies**
Göksel M., BIYIKLIOĞLU Z., Durmuş M.
Journal of Biological Inorganic Chemistry, vol.22, no.6, pp.953-967, 2017 (Journal Indexed in SCI)
- XII. **Effect of covalent and non-covalent linking of zinc(II) phthalocyanine functionalised carbon nanomaterials on the sensor response to ammonia**
Polyakov M. S. , Basova T. V. , Göksel M., Şenocak A., Demirbaş E., Durmuş M., Kadem B., Hassan A.
Synthetic Metals, vol.227, pp.78-86, 2017 (Journal Indexed in SCI)
- XIII. **Tyrosine conjugated zinc(II) phthalocyanine for photodynamic therapy: Synthesis and photophysicochemical properties**
Aliosman M., Göksel M., Mantareva V., Stoineva I., Durmuş M.
Journal of Photochemistry and Photobiology A: Chemistry, vol.334, pp.101-106, 2017 (Journal Indexed in SCI)
- XIV. **Synthesis and photophysicochemical properties of a set of asymmetrical peptide conjugated zinc(II) phthalocyanines bearing different fluorophore units**
Göksel M., Durmuş M., Atilla D.
Inorganica Chimica Acta, vol.456, pp.95-104, 2017 (Journal Indexed in SCI)
- XV. **Determination of p53 using graphite based amperometric sensors**

- Stefan-Van Staden R., AL-Ogaidi A. J. M. , Gugoasa L. A. , Yanık H., Göksel M., Durmuş M.
Journal of the Electrochemical Society, vol.164, 2017 (Journal Indexed in SCI)
- XVI. **Axially substituted silicon(IV) phthalocyanine and its quaternized derivative as photosensitizers towards tumor cells and bacterial pathogens**
Ömeroğlu İ., Kaya E. N. , Göksel M., Kussovski V., Mantareva V., Durmuş M.
Bioorganic and Medicinal Chemistry, vol.25, no.20, pp.5415-5422, 2017 (Journal Indexed in SCI)
- XVII. **Synthesis of asymmetric zinc(II) phthalocyanines with two different functional groups & spectroscopic properties and photodynamic activity for photodynamic therapy**
Göksel M.
BIOORGANIC & MEDICINAL CHEMISTRY, vol.24, pp.4152-4164, 2016 (Journal Indexed in SCI)
- XVIII. **Novel phthalocyanine-BODIPY conjugates and their photophysical and photochemical properties**
Yanık H., Göksel M., Yeşilot S., Durmuş M.
Tetrahedron Letters, vol.57, no.26, pp.2922-2926, 2016 (Journal Indexed in SCI)
- XIX. **Novel carbazole containing zinc phthalocyanine photosensitizers: Synthesis, characterization, photophysicochemical properties and in vitro study**
Göksel M., Sengul I. F. , Kandemir H., Durmuş M.
Journal of Porphyrins and Phthalocyanines, vol.20, no.6, pp.708-718, 2016 (Journal Indexed in SCI)
- XX. **Synthesis and photophysicochemical properties of novel water soluble phthalocyanines**
Çakır V., Göksel M., Durmuş M., Biyiklioglu Z.
Dyes and Pigments, vol.125, pp.414-425, 2016 (Journal Indexed in SCI)
- XXI. **High performance ternary solar cells based on P3HT:PCBM and ZnPc-hybrids**
Kadem B., Hassan A., Göksel M., Basova T., Şenocak A., Demirbaş E., Durmuş M.
RSC Advances, vol.6, no.96, pp.93453-93462, 2016 (Journal Indexed in SCI)
- XXII. **Peptide-substituted phthalocyanine photosensitizers: Design, synthesis, photophysicochemical and photobiological studies**
Göksel M., Durmuş M., Atilla D.
Photochemical and Photobiological Sciences, vol.15, pp.1318-1329, 2016 (Journal Indexed in SCI)
- XXIII. **Effect of covalent and non-covalent linking on the structure, optical and electrical properties of novel zinc(II) phthalocyanine functionalized carbon nanomaterials**
Kadem B., Göksel M., Şenocak A., Demirbaş E., Atilla D., Durmuş M., Basova T., Shanmugasundaram K., Hassan A.
Polyhedron, vol.110, pp.37-45, 2016 (Journal Indexed in SCI)
- XXIV. **Enhanced triplet state yields in aqueous media of asymmetric zinc phthalocyanines when conjugated to silver nanoflowers**
D'Souza S., George R., Göksel M., Atilla D., Durmuş M., Nyokong T.
Polyhedron, vol.100, pp.296-302, 2015 (Journal Indexed in SCI)
- XXV. **Amphiphilic zinc phthalocyanine photosensitizers: Synthesis, photophysicochemical properties and in vitro studies for photodynamic therapy**
Çakır D., Göksel M., Çakır V., Durmuş M., BIYIKLIOĞLU Z., KANTEKİN H.
Dalton Transactions, vol.44, no.20, pp.9646-9658, 2015 (Journal Indexed in SCI)
- XXVI. **Synthesis, photochemical, bovine serum albumin and DNA binding properties of tetrasubstituted zinc phthalocyanines and their water soluble derivatives**
Çakır V., Çakır D., Göksel M., Durmuş M., Biyiklioğlu Z., KANTEKİN H.
Journal of Photochemistry and Photobiology A: Chemistry, vol.299, pp.138-151, 2015 (Journal Indexed in SCI)
- XXVII. **Amino-functionalized water-soluble zinc phthalocyanines: Synthesis, photophysical, photochemical and protein binding properties**
Goksel M., Durmus M., Atilla D.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.266, pp.37-46, 2013 (Journal Indexed in SCI)
- XXVIII. **A comparative study on photophysical and photochemical properties of zinc phthalocyanines with different molecular symmetries**
Goksel M., Durmus M., Atilla D.

Articles Published in Other Journals

- I. **A new potentiometric sensor for the assay of P53 in blood samples**
Al-Ogaidi A. J. M. , Stefan-Van Staden R., Gugoasa L. A. , Van Staden J. F. , Yank H., Göksel M., Durmuş M.
UPB Scientific Bulletin, Series B: Chemistry and Materials Science, vol.79, pp.113-120, 2017 (Journal Indexed in ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Aksiyal Süstitüe Silisyum Ftalosiyinin Sentezi veFotofiziksel-Fotokimyasal Özellikleri**
ekineker g., GÖKSEL ŞAHİN M.
30. ULUSAL KİMYA KONGRESİ, Turkey, 5 - 08 November 2018
- II. **A3B Tipi Asimetrik Ftalosiyinin Sentezi ve Karakterizasyonu**
vural b., ekineker g., GÖKSEL ŞAHİN M.
30. ULUSAL KİMYA KONGRESİ, Turkey, 5 - 08 November 2018
- III. **Yeni Aksiyel Substitue Silisyum(IV) Ftalosyanin Bileşiklerinin Sentezi, Fotofizikokimyasal Özellikleri ve Bakteriyel Patojenlere Karşı Aktivitelerinin İncelenmesi**
ömeroğlu i., kaya e. n. , GÖKSEL ŞAHİN M., KUSSOVSKI V., MANTAREVA V., DURMUŞ M.
VI. ULUSAL ANORGANİK KİMYA KONGRESİ, Turkey, 18 - 21 May 2017
- IV. **BİOTİN SÜBSTÜTÜE YENİ ASİMETRİK ÇİNKO FTALOSİYANİN BİLEŞİĞİNİN SENTEZİ ve FOTODİNAMİK TERAPİ UYGULAMALARININ ARAŞTIRILMASI**
GÖKSEL ŞAHİN M., balçık p., DURMUŞ M.
VI. ULUSAL ANORGANİK KİMYA KONGRESİ, Turkey, 18 - 21 May 2017
- V. **Suda Çözünebilir Yeni Bir Silisyum IV Ftalosiyinin Bileşiğinin Sentezi Fotofiziksel ve Fotokimyasal özelliklerinin incelenmesi**
ömeroğlu i., kaya e. n. , GÖKSEL ŞAHİN M., DURMUŞ M.
III. ULUSALORGANİK KİMYA KONGRESİ, Turkey, 5 - 08 September 2016
- VI. **S MA005 Grafen Ftalosiyinin Hibrid Malzemelerin Click Kimyası Yardımıyla Hazırlanması**
GÖKSEL ŞAHİN M., ŞENOCAK A., DURMUŞ M., DEMİRBAŞ E.
27. Ulusal Kimya Kongresi, Turkey, 23 - 28 August 2015
- VII. **Tek Duvarlı Karbon Nanotüp Ftalosiyinin Hibrit Malzemelerin Click Kimyası Yardımıyla Hazırlanması**
ŞENOCAK A., GÖKSEL ŞAHİN M., DURMUŞ M., DEMİRBAŞ E.
5. fiziksel kimya kongresi, Turkey, 16 - 19 May 2015
- VIII. **Fotodinamik Terapi Ajanı Olarak Tasarlanmış Aksiyel Süstitüe Yeni Silisyum Ftalosiyininler**
GÖKSEL ŞAHİN M., DURMUŞ M.
V. Ulusal Kimya Kongresi, Turkey, 22 - 25 April 2015
- IX. **Hedefli Kanser Tedavisi için Peptid Süstitüe Silisyum Ftalosiyinin Bileşiğinin Sentezi ve in vitro Aktivitesinin İncelenmesi**
GÖKSEL ŞAHİN M., DURMUŞ M.
3. İlaç Kimyası: İlaç Etkin maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Turkey, 20 - 22 March 2015
- X. **DESIGN AND SYNTHESIS OF PEPTIDE CONJUGATED SI IV PHTHALOCYANINE FOR SELECTIVE PHOTODYNAMIC THERAPY**
aliosman m., eneva i., DURMUŞ M., GÖKSEL ŞAHİN M., angelov i., mantareva v., ivanka s.
33RD EUROPEAN PEPTIDE SYMPOSIUM, 31 August - 05 September 2014
- XI. **Axially Substituted Silicon IV Phthalocyanine Bearing Asymmetrical Zinc II Phthalocyanine Synthesis Characterization and Photodynamic Therapy Activity**

GÖKSEL ŞAHİN M., DURMUŞ M., angelov I., kussovski v., mantareva v.

International Conference on Porphyrins and Phthalocyanines, 22 - 27 June 2014

XII. Antibody based systems for the determination of mycotoxins in food and feed

Ozlem E., Fatma Betul G., Seyda P., Sevecen T., Esin A., Duygu E., Ibrahim H., GÖKSEL ŞAHİN M., AHSEN V., Selma O.
European Biotechnology Congress, 15 - 18 May 2014, vol.24, pp.23

XIII. Fotodinamik Terapi için Hedefli Moleküller

GÖKSEL ŞAHİN M., DURMUŞ M., ATILLA D.

26.Ulusal Kimya Kongresi, Turkey, 1 - 06 October 2012

XIV. Amin Grubu ile Fonksiyonlandırılmış Işığa Duyarlı Ftalosiyaninler

GÖKSEL ŞAHİN M., DURMUŞ M., dumoulin f., ATILLA D., AHSEN V.

Ulusal Kimya Kongresi, Turkey, 1 - 03 October 2012

XV. Intracellular photodynamic therapy with novel photosensitizersloaded nanoparticule

Saydan N., Aşçı G., GÖKSEL ŞAHİN M., Çelik A.

International Photodynamic Association, Innsbruck, Austria, 10 - 14 May 2011, vol.8, pp.209

XVI. Water soluble phthalocyanines mediated photodynamic effect on matrix metallo proteinases activity of mesothelioma cells

nil s., DURMUŞ M., hanifi y., GÖKSEL ŞAHİN M., GÜREK A. G. , AHSEN V., tebello n.

Fifth International Conference on Porphyrins and Phthalocyanines, 6 - 11 July 2008, pp.548

XVII. A preliminary study of photodynamic effect on matrix metalloproteinases activity in mesothelioma cell lines

GÖKSEL ŞAHİN M., nil s., DURMUŞ M., GÜREK A. G. , AHSEN V.

European Society for Photobiology, 1 - 06 September 2007, pp.154

Supported Projects

GÖKSEL ŞAHİN M., YAZIR Y., BALÇIK ERÇİN P., EKİNEKER G., ATILLA D., Project Supported by Higher Education Institutions, Fotodinamik Terapi Uygulaması için Kanser hücreleri ve Kanser mikroçevresi Hedefli Ftalosiyanın Sentezi ve Kök Hücreden KİF Kanserlişekli Fibroblast Eldesi, 2020 - Continues

GÖKSEL ŞAHİN M., HALBUTOĞULLARI Z. S. , DURUKSU G., GACAR G., YAZIR Y., EKİNEKER G., BALÇIK ERÇİN P., Project Supported by Higher Education Institutions, Hedefli & Suda Çözünebilir Fotodinamik Terapi Ajanı Sentezlenmesi, 2020 - 2021

Göksel Şahin M., TUBITAK Project, Farklı Sayılarda (2,4,6,8, ve 10) Aminoasit Grupları İçeren Silisyum(IV) Ftalosiyanın Bileşiklerinin Sentezi Ve In Vitro Fotodinamik Terapi Uygulamaları, 2017 - 2021

Göksel Şahin M., TUBITAK Project, CD133 Pozitif Olan Kanser Kök Hücreleri Hedeflenmiş Işığa Duyarlı Fotodinamik Terapi Ajanı Sentezlenmesi ve in vitro Uygulamaları, 2017 - 2020

Göksel Şahin M., Göl C., TUBITAK Project, Tümörlü Bölgede Seçicilik Gösteren Suda Çözünebilir Asimetrik BODIPY-Ftalosiyanın Fotosensitizerlerin Sentezi ve in vitro Fotodinamik Kanser Terapi Aktivitelerinin İncelenmesi, 2017 - 2019

Durmuş M., TÜBİTAK International Bilateral Joint Cooperation Program Project, Floresans Tanımlama ve Fotodinamik Terapi Amaçlı Ftalosiyanın Bileşikleri 212M053, 2013 - 2016

TUBITAK Project, Geleneksel gıdalarda mikotoksin analiz yöntemlerinin geliştirilmesi 110G126, 2012 - 2016

Dumoulin F., TÜBİTAK International Bilateral Joint Cooperation Program Project, Şalkon konjüge ftalosiyaninler kanser neovaskülatüre adreslenen üçüncü nesil fotosensitizerler 111M386, 2012 - 2014

TUBITAK Project, Yakıt Hücreleri İçin Çok Çekirdekli Ftalosiyaninler 108T063, 2008 - 2010

TUBITAK Project, Photosensitizer Olarak Yeni ftalosiyaninlerin Sentezi ve Fotodinamik Terapide in vitro Uygulamaları, 2005 - 2009

Scientific Consultations

Tübitak, Project Consultancy, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, Turkey, 2021 - Continues

Citations

Total Citations (WOS):347

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