Prof. Özgür Altan BOZDEMİR

Personal Information

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International Researcher IDs
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Education Information

Doctorate, Akdeniz University, Fen Bilimleri Ünstitüsü, Kimya / Organik Kimya, Turkey 2001 - 2007
Postgraduate, Akdeniz University, Institute Of Science, Kimya, Turkey 1998 - 2001
Undergraduate, Akdeniz University, Faculty Of Science, Kimya, Turkey 1993 - 1998

Foreign Languages

English, C1 Advanced

Research Areas

Chemistry, Physical Chemistry, Spectroscopy, Inorganic Chemistry, Coordination Chemistry, Organic Chemistry, Chemistry of Dyes and Pigments, Natural Sciences

Academic Titles / Tasks

Professor, Ataturk University, Fen Fakültesi, Kimya, 2019 - Continues

Courses

Organic Chemistry Laboratory II, Undergraduate, 2021 - 2022
Organic Chemistry, Undergraduate, 2021 - 2022
General Chemistry Laboratory-I, Undergraduate, 2021 - 2022
Organik Kİmya III, Undergraduate, 2019 - 2020
Organik Kimya I, Undergraduate, 2019 - 2020
Organic Chemistry II, Undergraduate, 2016 - 2017

Advising Theses

BOZDEMİR Ö. A., Adem Altaş: 2016: NÜKLEOFİLİK AROMATİK SÜBSTİTÜSYON REAKSİYONLARIYLA YENİ PERİLEN MONOİMİD TÜREVLERİNİN SENTEZİ VE FOTOFİZİKSEL ÖZELLİKLERİNİN BELİRLENMESİ., Postgraduate,

A.ALTAŞ(Student), 2016
BOZDEMİR Ö. A., ÇİNKO (II) ve BAKIR(II) DİPİRRİNATO KATENATLARIN SENTEZİ ve KARAKTERİZASYONU, Postgraduate, E.TUNER(Student), 2016
BOZDEMİR Ö. A., DİPİRRİN VE AZADİPİRRİN ESASLI MAKROHALKALARIN SENTEZİ VE ÇİNKO(II) KOMPLEKSLERİNİN KARAKTERİZASYONU., Postgraduate, S.ŞAHİNOĞLU(Student), 2016
BOZDEMİR Ö. A., ŞIK HASAT EDEBİLEN PERİLEN MONOİMİD DİESTER VE PERİLEN TETRAESTER DENDRİMERLERİNİN SENTEZİ VE KARAKTERİZASYONU, Postgraduate, E.AYDIN(Student), 2015

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, September, 2020
Associate Professor Exam, Associate Professor Exam, Atatürk Üniversitesi, July, 2019

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A BF2 Chelate Exhibiting Excimer-like Fluorescence with an Unusually Large Stokes Shift in the Crystalline Phase**
BOZDEMİR Ö. A., Woodford O. J., Waddell P. G., Harriman A.
Chemistry - A European Journal, vol.29, no.31, 2023 (SCI-Expanded)

II. **Bay- and peri-functionalized donor-acceptor perylene monoimides via nitration and nucleophilic substitution/reduction pathway**
Altaş A., Gültekin D., Acar M., Cücü E., Karatay A., Elmalı A., Atalay A., Demircan Ç., Bozkaya U., Kazaz C., et al.
MATERIALS TODAY CHEMISTRY, vol.24, 2022 (SCI-Expanded)

III. **Triplet Distribution in a Symmetrical Zinc(II) Porphyrin-BODIPY Pentameric Array**
Bozdemir Ö. A., Gultekin D., Harriman A.
Journal of Physical Chemistry A, vol.124, no.51, pp.10736-10747, 2020 (SCI-Expanded)

IV. **Solid-State Emission from Mono- and Bichromophoric Boron Dipyrromethene (BODIPY) Derivatives and Comparison with Fluid Solution**
Bozdemir O. A., Al-Sharif H. H. T., McFarlane W., Waddell P. G., Benniston A. C., Harriman A.
CHEMISTRY-A EUROPEAN JOURNAL, vol.25, no.68, pp.15634-15645, 2019 (SCI-Expanded)

V. **Aromatic stacking of a perylenetetracarboxylic tetraester: Self-assembly in both water and chloroform**
NİŞANCI B., DAŞTAN A., BOZDEMİR Ö. A.
Tetrahedron Letters, vol.59, no.39, pp.3558-3562, 2018 (SCI-Expanded)

VI. **Synthesis of an F-BODIPY [2]catenane using the chemistry of bis(dipyrrinato) metal complexes**
NİŞANCI B., Sahinoglu S., Tuner E., ARIK M., Kani I., DAŞTAN A., BOZDEMİR Ö. A.
CHEMICAL COMMUNICATIONS, vol.53, no.92, pp.12418-12421, 2017 (SCI-Expanded)

VII. **Synthesis of Novel meso-Indole- and meso-Triazatruxene-BODIPY Dyes**
SADAK A. E., Goren A. C., BOZDEMİR Ö. A., SARAÇOĞLU N.
CHEMISTRYSELECT, vol.2, no.32, pp.10512-10516, 2017 (SCI-Expanded)

VIII. **Dihydropyridazine-appended dibenzosuberenones as a new class of fluorophores: Application to fluoride sensing**
Koçak R., Yıldız D., BOZKAYA U., DAŞTAN A., BOZDEMİR Ö. A.
TETRAHEDRON LETTERS, vol.58, no.30, pp.2981-2985, 2017 (SCI-Expanded)

IX. **Synthesis and use of "clickable" bay-region tetrasubstituted perylene tetracarboxylic tetraesters and a perytene monoimide diester as energy acceptors**
AYDIN E., NİŞANCI B., Acar M., DAŞTAN A., BOZDEMİR Ö. A.
NEW JOURNAL OF CHEMISTRY, vol.39, no.1, pp.548-554, 2015 (SCI-Expanded)

X. **Lock-Arm Supramolecular Ordering: A Molecular Construction Set for Cocrystallizing Organic Charge**

Transfer Complexes
Blackburn A. K., Sue A. C. -., Shveyd A. K., Cao D., Tayi A., Narayanan A., Rolczynski B. S., Szarko J. M., Bozdemir O. A., Wakabayashi R., et al.
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.136, no.49, pp.17224-17235, 2014 (SCI-Expanded)

XI. **Autonomous Shuttling Driven by an Oscillating Reaction: Proof of Principle in a Cucurbit[7]uril-Bodipy Pseudorotaxane**
Buyukcakir O., Yasar F. T., BOZDEMİR Ö. A., Icli B., Akkaya E. U.
ORGANIC LETTERS, vol.15, no.5, pp.1012-1015, 2013 (SCI-Expanded)

XII. **Novel phenomena for aggregation induced emission enhancement: highly fluorescent hydrophobic TPE-BODIPY couples in both organic and aqueous media**
Baglan M., Ozturk S., GUR B., Meral K., Bozkaya U., BOZDEMİR Ö. A., Atilgan S.
RSC ADVANCES, vol.3, no.36, pp.15866-15874, 2013 (SCI-Expanded)

XIII. **Proof of principle for a molecular 1:2 demultiplexer to function as an autonomously switching theranostic device**
Erbas-Cakmak S., BOZDEMİR Ö. A., Cakmak Y., Akkaya E. U.
CHEMICAL SCIENCE, vol.4, no.2, pp.858-862, 2013 (SCI-Expanded)

XIV. **Heteroleptic Metallosupramolecular Complexes of Bodipy Dyes as Energy Transfer Cassettes**
Sozmen F., Oksal B. S., BOZDEMİR Ö. A., Buyukcakir O., Akkaya E. U.
ORGANIC LETTERS, vol.14, no.20, pp.5286-5289, 2012 (SCI-Expanded)

XV. **Stimulated Release of Size-Selected Cargos in Succession from Mesoporous Silica Nanoparticles**
Wang C., LI Z., Cao D., Zhao Y., Gaines J. W., Bozdemir O. A., Ambrogio M. W., Frasconi M., Botros Y. Y., ZINK J. I., et al.
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.51, no.22, pp.5460-5465, 2012 (SCI-Expanded)

XVI. **Dynamic covalent templated-synthesis of [c2] daisy chains**
Bozdemir O. A., Barin G., Belowich M. E., Basuray A. N., Beuerle F., Stoddart J. F.
CHEMICAL COMMUNICATIONS, vol.48, no.84, pp.10401-10403, 2012 (SCI-Expanded)

XVII. **Towards Unimolecular Luminescent Solar Concentrators: Bodipy-Based Dendritic Energy-Transfer Cascade with Panchromatic Absorption and Monochromatized Emission**
Bozdemir O. A., Erbas-Cakmak S., Ekiz O. O., Dana A., Akkaya E. U.
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.50, no.46, pp.10907-10912, 2011 (SCI-Expanded)

XVIII. **Optimization of distyryl-Bodipy chromophores for efficient panchromatic sensitization in dye sensitized solar cells**
Kolemen S., Bozdemir O. A., Cakmak Y., Barin G., Erten-Ela S., Marszalek M., Yum J., Zakeeruddin S. M., Nazeeruddin M. K., Graetzel M., et al.
CHEMICAL SCIENCE, vol.2, no.5, pp.949-954, 2011 (SCI-Expanded)

XIX. **A Multistate Switchable [3]Rotacatenane**
Barin G., COSKUN A., FRIEDMAN D. C., OLSON M. A., Colvin M. T., Carmielli R., DEY S. K., Bozdemir O. A., Wasielewski M. R., Stoddart J. F.
CHEMISTRY-A EUROPEAN JOURNAL, vol.17, no.1, pp.213-222, 2011 (SCI-Expanded)

XX. **Selective Manipulation of ICT and PET Processes in Styryl-Bodipy Derivatives: Applications in Molecular Logic and Fluorescence Sensing of Metal Ions**
Bozdemir O. A., Guliyev R., Buyukcakir O., Selcuk S., Kolemen S., Gulseren G., Nalbantoglu T., Boyaci H., Akkaya E. U.
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.132, no.23, pp.8029-8036, 2010 (SCI-Expanded)

XXI. **Reaction-Based Sensing of Fluoride Ions Using Built-in Triggers for Intramolecular Charge Transfer and Photoinduced Electron Transfer**
Bozdemir O. A., Sozmen F., Buyukcakir O., Guliyev R., Cakmak Y., Akkaya E. U.
ORGANIC LETTERS, vol.12, no.7, pp.1400-1403, 2010 (SCI-Expanded)

XXII. **Convergent synthesis and light harvesting properties of dendritic boradiazaindacene (BODIPY) appended perylenediimide dyes**
Bozdemir O. A., YILMAZ M. S., Buyukcakir O., SIEMIARCZUK A., Tutas M., Akkaya E. U.
NEW JOURNAL OF CHEMISTRY, vol.34, no.1, pp.151-155, 2010 (SCI-Expanded)

XXIII. **Synthesis of Symmetrical Multichromophoric Bodipy Dyes and Their Facile Transformation into**

Energy Transfer Cassettes
Bozdemir O. A., Cakmak Y., Sozmen F., Ozdemir T., SIEMIARCZUK A., Akkaya E. U.
CHEMISTRY-A EUROPEAN JOURNAL, vol.16, no.21, pp.6346-6351, 2010 (SCI-Expanded)

XXIV. **Tetrastyryl-Bodipy Dyes: Convenient Synthesis and Characterization of Elusive Near IR Fluorophores**
Buyukcakir O., Bozdemir O. A., Kolemen S., Erbas S., Akkaya E. U.
ORGANIC LETTERS, vol.11, no.20, pp.4644-4647, 2009 (SCI-Expanded)

XXV. **Cyanide sensing via metal ion removal from a fluorogenic BODIPY complex**
Guliyev R., Buyukcakir O., Sozmen F., Bozdemir O. A.
TETRAHEDRON LETTERS, vol.50, no.36, pp.5139-5141, 2009 (SCI-Expanded)

XXVI. **Novel Molecular Building Blocks Based on the Boradiazaindacene Chromophore: Applications in Fluorescent Metallosupramolecular Coordination Polymers**
Bozdemir O. A., Buyukcakir O., Akkaya E. U.
CHEMISTRY-A EUROPEAN JOURNAL, vol.15, no.15, pp.3830-3838, 2009 (SCI-Expanded)

XXVII. **Bidirectional switching of near IR emitting boradiazaindacene fluorophores**
Deniz E., Isbasar G. C., Bozdemir O. A., YILDIRIM L., SIEMIARCZUK A., Akkaya E. U.
ORGANIC LETTERS, vol.10, no.16, pp.3401-3403, 2008 (SCI-Expanded)

XXVIII. **Convergent synthesis of fluorinated dendrons using the mesylate activation route**
Bozdemir O. A., DILEK M., TUTAS M.
TURKISH JOURNAL OF CHEMISTRY, vol.31, no.3, pp.389-396, 2007 (SCI-Expanded)

XXIX. **Light harvesting and efficient energy transfer in a boron-dipyrrin (BODIPY) functionalized perylenediimide derivative**
YILMAZ M. D., Bozdemir O. A., AKKAYA E. U.
ORGANIC LETTERS, vol.8, no.13, pp.2871-2873, 2006 (SCI-Expanded)

XXX. **Synthesis and characterization of poly(aryl ether) dendritic structures functionalized with coumarin derivatives**
AYDINLI M., TUTAS M., ATASOY B., Bozdemir O.
REACTIVE & FUNCTIONAL POLYMERS, vol.65, no.3, pp.317-327, 2005 (SCI-Expanded)

XXXI. **Gas chromatographic investigation of rose concrete, absolute and solid residue**
AYCI F., AYDINLI M., Bozdemir O., TUTAS M.
FLAVOUR AND FRAGRANCE JOURNAL, vol.20, no.5, pp.481-486, 2005 (SCI-Expanded)

XXXII. **Mechanical and light transmittance properties of locust bean gum based edible films**
AYDINLI M., TUTAS M., Bozdemir O.
TURKISH JOURNAL OF CHEMISTRY, vol.28, no.2, pp.163-171, 2004 (SCI-Expanded)

XXXIII. **Plasticiser effect on water vapour permeability properties of locust bean gum-based edible films**
Bozdemir O., TUTAS M.
TURKISH JOURNAL OF CHEMISTRY, vol.27, no.6, pp.773-782, 2003 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

I. **A New Class of Efficient Dihydropyridazine Dibenzosuberenone-Derived Colorimetric Chemosensors for Fluoride Ion Recognition**
ERDOĞAN M., Kocak R., BOZDEMİR Ö. A., DAŞTAN A.
OrgChemTR4, 4 - 07 October 2018

II. **Synthesis of Novel Perylene Di- and Tetraesters**
GÜLTEKİN D., BOZDEMİR Ö. A.
4. Organıc Chemistri Congress, 4 - 07 October 2018, pp.118-120

III. **Synthesis of Novel Perylene monoimides by Nucleophilic Aromatic Substitution Reactions**
Cücü E., ACAR M., Altaş A., BOZDEMİR Ö. A.
Anatolian Conference on Synthetic Organic Chemistry (ACSOC II), 21 - 24 March 2016

IV. **Perylene esters in light harvesting systems**
AYDIN e., NİŞANCI B., ACAR M., DAŞTAN A., BOZDEMİR Ö. A.
Anatolian Conference onSynthetic Organic ChemistryACSOC II, 21 - 24 March 2016

V. **Synthesis of new meso indole bodipy derivatives as prospective initiator of energy transfer cassettes**
ALİ ENİS S., AHMET CEYHAN G., BOZDEMİR Ö. A., ACAR M., SARAÇOĞLU N.
Trans Mediterranean Colloquium on Heterocyclic Chemistry TRAMECH VIII, 11 - 15 November 2015

VI. **Synthesis and Characterization of a Zinc-Dipyrrinato-Catenate**
TUNER e., NİŞANCI B., DAŞTAN A., BOZDEMİR Ö. A.
RSC Macrocyclic and Supramolecular Chemistry Meeting, 16 - 17 December 2013

VII. **Bodipy dyes as a potential sentisizer for dye sensitized solar cells**
Kolemen S., Bozdemir O. A., Cakmak Y., Altay Y., ERTEN ELA Ş., Marszalek M., Yum J., Zakeeruddin S. M., Nazeeruddin M. K., Barin G., et al.
245th National Meeting of the American-Chemical-Society (ACS), Louisiana, United States Of America, 7 - 11 April 2013, vol.245

VIII. **Energy transfer in metallosupramolecular complexes with multiple bodipy units**
Sozmen F., Oksal B. S., Bozdemir O. A., Buyukcakir O., AKKAYA E. U.
245th National Spring Meeting of the American-Chemical-Society (ACS), Louisiana, United States Of America, 7 - 11 April 2013, vol.245

Supported Projects

Bozdemir Ö. A., Gültekin D., TUBITAK Project, 1. Ve 2. Jenerasyon Tip-Iii-B Rotaksan Dendrimerlerinin Sentezi, 2021 - 2022

ÇAKICI M., DAŞTAN A., MENZEK A., GÖKSU S., MARAŞ A., ANIL B., KILIÇ H., KİSHALI N., BOZDEMİR Ö. A., KARA Y., et al., Project Supported by Higher Education Institutions, Nükleer Manyetik Rezonans (NMR) Cihazının Bakım ve Onarımı, 2018 - 2018

ARIK M., BOZDEMİR Ö. A., BAŞAR S. S., ÖZDEMİR Y., Project Supported by Higher Education Institutions, Aza-BODIPY türevi bileşiklerin sentezi ve fotofiziksel özelliklerinin İncelenmesi, 2017 - 2018

BOZDEMİR Ö. A., Project Supported by Higher Education Institutions, ANYON-Pİ ETKİLEŞİMLERİ İLE FLORÜR İYONU TAYİNİ, 2015 - 2017

BOZDEMİR Ö. A., TUBITAK Project, Yeni Perilen Monoimid Ve Perilen Diester Türevlerinin Sentezi Ve Fotofiziksel Özelliklerinin Belirlenmesi, 2015 - 2016

BOZDEMİR Ö. A., TUBITAK Project, Dinamik Kovalent Kimya Yaklaşımıyla Işık Hasat Edebilen Multikromoforik Rotaksan Dendrimerlerinin Sentezi Ve Fotofiziksel Karakterizasyonları, 2013 - 2015

BOZDEMİR Ö. A., Project Supported by Higher Education Institutions, ANORGANİK KİMYA ARAŞTIRMA LABORAUVARLARININ MODERNİZASYONU VE DİPİRRİN ESASLI KATENAN YAPILARININ SENTEZİ, 2012 - 2014

BOZDEMİR Ö. A., TUBITAK Project, Floresan Katenanların Sentezi, Karakterizasyonu ve Fotofiziksel Özelliklerinin Belirlenmesi, 2012 - 2013

BOZDEMİR Ö. A., BUDAK H., Project Supported by Higher Education Institutions, PERİLEN BİSİMİT ESASLI YÜK-TRANSFER KİMYASAL ALGILAYICILARININ SENTEZİ VE METAL İYONU TAYİNİ UYGULAMALARI, 2011 - 2013

Metrics

Publication: 41
Citation (WoS): 2258
Citation (Scopus): 2307
H-Index (WoS): 20
H-Index (Scopus): 21

Non Academic Experience

Akdeniz Üniversitesi Fen Fakültesi Kimya Bölümü