

Prof. MUSTAFA ARIK

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: IYS-2411-2023

Yoksis Researcher ID: 33519

Education Information

Doctorate, Ataturk University, Fen Fakültesi, Kimya, Turkey 2000 - 2003

Postgraduate, Ataturk University, Fen Fakültesi, Kimya, Turkey 1996 - 1999

Undergraduate, Ataturk University, Fen Fakültesi, Kimya, Turkey 1992 - 1996

Dissertations

Doctorate, Pyronin B ve pyronin Y'xxnin kolloidal sistemlerde fotofiziksel özelliklerinin incelenmesi, Ataturk University, 2003

Postgraduate, Floresin'xxin floresans şiddeti üzerine moleküler oksijenin etkisi ve moleküler etkileşmeler, Ataturk University, Fen Fakültesi, Kimya, 1999

Research Areas

Chemistry, Physical Chemistry, Spectroscopy

Academic Titles / Tasks

Professor, Bilecik Seyh Edebali University, Fen Fakültesi, Kimya Bölümü, 2023 - Continues

Professor, Siirt University, Sağlık Bilimleri Fakültesi, İş Sağlığı Ve Güvenliği, 2020 - 2023

Professor, Ataturk University, Fen Fakültesi, Kimya, 2017 - 2020

Associate Professor, Ataturk University, Fen Fakültesi, Kimya, 2011 - 2017

Assistant Professor, Ataturk University, Fen Fakültesi, Kimya, 2003 - 2011

Research Assistant, Ataturk University, Fen Fakültesi, Kimya, 1996 - 2003

Academic and Administrative Experience

Fakülte Kurulu Üyesi, Bilecik Seyh Edebali University, 2023 - Continues

Ethics Committee Member, Bilecik Seyh Edebali University, 2023 - Continues

Head of Department, Siirt University, 2021 - 2023
Fakülte Kurulu Üyesi, Siirt University, 2021 - 2023
Fakülte Yönetim Kurulu Üyesi, Siirt University, 2021 - 2023
Secretary General, Ataturk University, 2011 - 2016
assistant Secretary General, Ataturk University, 2009 - 2011
Deputy Head of Department, Ataturk University, 2009 - 2009

Courses

Modern Analiz Yöntemleri I, Postgraduate, 2023 - 2024

Advising Theses

Arik M., Perilen türevi bileşiklerin fotofiziksel özelliklerinin ve agregasyon davranışlarının incelenmesi, Doctorate, S.ŞEN(Student), 2020

Arik M., Aza-bodipy türevi bileşığının sentezi ve grafen oksit ile kuençleşmesinin incelenmesi, Postgraduate, S.SERHAT(Student), 2019

Arik M., Grafen, BN, MoS₂, TiS₃ sentezi, karakterizasyonu ve suda çözünebilir grafen/boyar madde kompozitlerinin fotofiziksel özelliklerinin incelenmesi, Doctorate, G.GÜVEN(Student), 2017

Arik M., Pyronin Y bileşığının sıvı ve misel içeren ortamlardaki fotofiziksel özellikleri ve fotodinamiği, Doctorate, B.MERYEM(Student), 2011

Arik M., Floresin ile meroşyanın 540 molekül çifti arasındaki floresans enerji transferinin model mebranlarda incelenmesi, Doctorate, M.TOPRAK(Student), 2011

Arik M., Pyronin B ve pyronin Y bileşiklerinin polivinil sülfatlı ortamda fotofiziksel özelliklerinin incelenmesi, Postgraduate, M.TÜRK(Student), 2009

Arik M., Metanol ortamında kumarin35 ile pyronin bileşikleri arasındaki floresans enerji transferi, Postgraduate, M.TOPRAK(Student), 2006

Arik M., Floresans enerji transferinin misel sistemlerde incelenmesi, Postgraduate, B.MERYEM(Student), 2005

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Comprehensively Revealing the Profile of Pistacia vera L. cv. Siirt Turpentine - Antioxidant, Antidiabetic, Anti-Alzheimer, and Antiglaucoma Effects**
Karageçili H., Yilmaz M. A., Alwasel S. H., Arik M., GÜLÇİN İ.
Records of Natural Products, vol.17, no.5, pp.918-937, 2023 (SCI-Expanded)
- II. **Molecular aggregates of pyronin dyes with polyelectrolyte polystyrene sulfonate (PSS) in aqueous solution**
ARK M., Kassa S. B., ONGANER Y.
Journal of Photochemistry and Photobiology A: Chemistry, vol.391, 2020 (SCI-Expanded)
- III. **Photophysical and photodynamic properties of Pyronin Y in micellar media at different temperatures**
BEŞER B. M., ARK M., ONGANER Y.
Luminescence, vol.34, no.4, pp.415-425, 2019 (SCI-Expanded)
- IV. **Bis(indolyl)methane substituted tetraphenylethylene derivatives as AIE active materials**
Lafzi F., KILIÇ H., Ertugrul B., ARK M., SARAÇOĞLU N.
Journal of Luminescence, vol.208, pp.174-182, 2019 (SCI-Expanded)
- V. **Photophysics and photodynamics of Pyronin Y in n-alcohols**
BEŞER B. M., ONGANER Y., ARK M.

- Luminescence, vol.33, no.8, pp.1394-1400, 2018 (SCI-Expanded)
- VI. **Synthesis and Characterization of Reduced Graphene Oxide/Rhodamine 101 (rGO-Rh101) Nanocomposites and Their Heterojunction Performance in rGO-Rh101/p-Si Device Configuration**
Batır G. G., ARK M., Caldırın Z., Turut A., AYDOĞAN Ş.
Journal of Electronic Materials, vol.47, no.1, pp.329-336, 2018 (SCI-Expanded)
- VII. **Pyronin B-Graphene Oxide-Based Turn-On Fluorescent Sensors for Fe³⁺ in an Aqueous Medium: Synthesis and Living Cell Application**
Batır G. G., GEDİKLİ S., ARK M.
ChemistrySelect, vol.2, no.33, pp.10889-10894, 2017 (SCI-Expanded)
- VIII. **Synthesis of an F-BODIPY [2]catenane using the chemistry of bis(dipyrromethane)metal complexes**
NİŞANCI B., Sahinoglu S., Tuner E., ARK M., Kani I., DAŞTAN A., BOZDEMİR Ö. A.
Chemical Communications, vol.53, no.92, pp.12418-12421, 2017 (SCI-Expanded)
- IX. **The thin films of pyronin dyes doped with poly(vinyl sulphate) on glass substrate: Preparation and characterization**
Meral K., ARK M., ONGANER Y.
Journal of Molecular Structure, vol.1105, pp.350-356, 2016 (SCI-Expanded)
- X. **Liquid nitrogen-assisted synthesis of fluorescent carbon dots from Blueberry and their performance in Fe³⁺ detection**
Aslandaş A. M., Balci N., ARK M., Şakiroğlu H., ONGANER Y., Meral K.
Applied Surface Science, vol.356, pp.747-752, 2015 (SCI-Expanded)
- XI. **A novel system for Fe³⁺ ion detection based on fluorescence resonance energy transfer**
BOZKURT E., ARK M., ONGANER Y.
Sensors and Actuators, B: Chemical, vol.221, pp.136-147, 2015 (SCI-Expanded)
- XII. **The fluorescence quenching mechanism of coumarin 120 with CdS nanoparticles in aqueous suspension**
Acar M., BOZKURT E., Meral K., ARK M., ONGANER Y.
Journal of Luminescence, vol.157, pp.10-15, 2015 (SCI-Expanded)
- XIII. **The investigation of the interaction between orientin and bovine serum albumin by spectroscopic analysis**
Toprak M., ARK M.
Luminescence, vol.29, no.7, pp.805-809, 2014 (SCI-Expanded)
- XIV. **Graphene oxide sheets as a template for dye assembly: Graphene oxide sheets induce H-aggregates of pyronin (Y) dye**
Şinoforoğlu M., Gür B., ARK M., ONGANER Y., Meral K.
RSC Advances, vol.3, no.29, pp.11832-11838, 2013 (SCI-Expanded)
- XV. **Photoinduced interactions between coumarin 151 and colloidal CdS nanoparticles in aqueous suspension**
BOZKURT E., ACAR M., MERAL K., ARK M., ONGANER Y.
Journal of Photochemistry and Photobiology A: Chemistry, vol.236, pp.41-47, 2012 (SCI-Expanded)
- XVI. **An investigation of energy transfer between coumarin 35 and xanthene derivatives in liquid medium**
Toprak M., ARK M.
Turkish Journal of Chemistry, vol.34, no.2, pp.285-293, 2010 (SCI-Expanded)
- XVII. **Evaluation of colour changed of acrylic resin materials in the different solutions**
YEŞİL Z., YANIKOĞLU N., ARK M.
Asian Journal of Chemistry, vol.22, no.9, pp.6669-6676, 2010 (SCI-Expanded)
- XVIII. **A systematic study on the absorption and fluorescence properties of 2,4,6-triaryl and tripyridylpyridines**
Findik E., ARK M., Ceylan M.
Turkish Journal of Chemistry, vol.33, no.5, pp.677-684, 2009 (SCI-Expanded)
- XIX. **Effect of surfactants on the aggregation of pyronin B and pyronin Y in aqueous solution**
ARK M., Meral K., ONGANER Y.

- Journal of Luminescence, vol.129, no.6, pp.599-604, 2009 (SCI-Expanded)
- XX. **The fluorescence resonance energy transfer between dye compounds in micellar media**
Aydin B. M., Acar M., ARK M., ONGANER Y.
Dyes and Pigments, vol.81, no.2, pp.156-160, 2009 (SCI-Expanded)
- XXI. **Electrochemical preparation of pyronin Y thin films on gold substrates**
Alanyalioglu M., ARK M.
Journal of Applied Polymer Science, vol.111, no.1, pp.94-100, 2009 (SCI-Expanded)
- XXII. **Cytotoxicity of 1-aryl-3-butylamino-1-propanone hydrochlorides against jurkat and L6 cells**
GÜL M., METE E., Atalay M., ARK M., GÜL H. İ.
Arzneimittel-Forschung/Drug Research, vol.59, no.7, pp.364-369, 2009 (SCI-Expanded)
- XXIII. **Synthesis of cyclopropane-annulated conduritol derivatives: norcaran-2,3,4,5-tetraoles**
ŞENGÜL M., Menzek A., ŞAHİN E., ARK M., SARAÇOĞLU N.
Tetrahedron, vol.64, no.30-31, pp.7289-7294, 2008 (SCI-Expanded)
- XXIV. **Analysis of fluorescence quenching of pyronin B and pyronin Y by molecular oxygen in aqueous solution**
ÇELEBİ N., ARK M., ONGANER Y.
Journal of Luminescence, vol.126, no.1, pp.103-108, 2007 (SCI-Expanded)
- XXV. **Fluorescence quenching of fluorescein with molecular oxygen in solution**
ARK M., ÇELEBİ N., ONGANER Y.
Journal of Photochemistry and Photobiology A: Chemistry, vol.170, no.2, pp.105-111, 2005 (SCI-Expanded)
- XXVI. **Molecular excitons of Pyronin B and Pyronin Y in colloidal silica suspension**
ARK M., ONGANER Y.
Chemical Physics Letters, vol.375, no.1-2, pp.126-133, 2003 (SCI-Expanded)
- XXVII. **Solvent effect on nonradiative process of pyronin B in protic and aprotic solvent systems**
Acemioğlu B., ARK M., ONGANER Y.
Journal of Luminescence, vol.97, no.3-4, pp.153-160, 2002 (SCI-Expanded)
- XXVIII. **Solvent effect on the ground and excited state dipole moments of fluorescein**
Acemioğlu B., ARK M., EFEOĞLU H., ONGANER Y.
Journal of Molecular Structure: THEOCHEM, vol.548, no.1-3, pp.165-171, 2001 (SCI-Expanded)

Articles Published in Other Journals

- I. **Suda Çözünebilir Grafen/Boyar Madde Kompozitlerinin Spektroskopik Özelliklerinin İncelenmesi**
BATIR G. G., ARIK M.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.2, pp.946-954, 2022 (Peer-Reviewed Journal)
- II. **Bimolecular Interactions Between Graphene Oxide and a New Aza-BODIPY Derivative**
ARIK M., BAŞAR S. S., GÜLTEKİN D., ŞEN S.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.11, no.4, pp.2916-2925, 2021 (Peer-Reviewed Journal)
- III. **Chemical Actinometric Method for the Determination of Corrected Fluorescence Spectra**
ACEMİOĞLU B., ARIK M., ONGANER Y.
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.29, no.1, pp.1-5, 2001 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Investigation of Photophysical Properties of Water-Soluble Graphene / Fluorescein and Graphene/Eosin Y Dye Composites**
BATIR G. G., ARIK M.
3rd INTERNATIONAL CONFERENCE ON ADVANCESIN NATURAL APPLIED SCIENCES, 9 - 12 May 2018
- II. **Photophysics and Photodynamics of Pyronine Y- Polar Protic Solvent Interaction**

- ARIK M., BEŞER B. M., ONGANER Y.
2nd INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL AND APPLIED SCIENCES, 18 - 21 April 2017
- III. Optical and morphological characterizations of pyronin dye poly vinyl alcohol thin films formed on glass substrates
MERAL K., ARIK M., ONGANER Y.
INTERNATIONAL CONFERENCE on ADVANCES in NATURAL and APPLIED SCIENCES-ICANAS2016, 21 - 23 April 2016
- IV. Dye Graphene Oxide Nanocomposites And Their Sensor Application
BATIR G. G., MERAL K., ARIK M.
International Journal of Arts Sciences (IJAS), 30 March 2016
- V. A facile synthesis of fluorescent carbon dots from Blueberry and their performance in Fe₃ detection
ŞENOL A. M., ARIK M., ŞAKIROĞLU H., ONGANER Y., MERAL K.
1st International Turkic World Conference on Chemical Sciences and Technologies, 27 October - 01 November 2015
- VI. H AGGREGATES OF PYRONIN Y IN AQUEOUS SOLUTION CONTAINING GRAPHENE OXIDE SHEETS
şinoforoğlu m., GÜR B., ARIK M., ONGANER Y., MERAL K.
1st International Conference on Engineering and Natural Sciences, 15 - 19 May 2015
- VII. Effect of Surfactants on the Aggregation of Pyronin B and Pyronin Y in Aqueous Solution
ARIK M., MERAL K., ONGANER Y.
International Journal of Chemical, Environmental & Biological Sciences, 11 - 12 January 2015, vol.3, pp.133
- VIII. Pyronin Y nin Protik Çözüçüler ve Misel Sistemleri İçerisindeki Fotofiziksel Özellikleri
BEŞER B. M., ARIK M., ONGANER Y.
XI.Uluslararası Spektroskopisi Kongresi, Turkey, 23 - 26 June 2009
- IX. Cytotoxicity of 1 Aryl 3 Butylamino 1 Propanone Hydrochlorides Against Jurkat Celle
METE E., ARIK M., GÜL M.
The 1 st International Joint Conference of Materials Science, Nanotechnology and Biotechnology, 4 - 06 January 2009
- X. Photophysical Properties of 6 diethylamino xanthene 3 ylidene diethylammonium and 6 diethylamino xanthene 3 ylidene dimethylammonium in Polyelectrolyte Solution
ARIK M., ONGANER Y., MERAL K.
International Conference on Organic Chemistry, 5 - 09 June 2007
- XI. An Investigation of fluorescence energy transfer between coumarin 35 and xanthene derivatives in liquid medium
ARIK M., TOPRAK M.
International Conference on Organic Chemistry, 5 - 09 January 2007
- XII. Molecular Excitons of Pyronin Dyes in Aqueous Colloidal Medium
MERAL K., ARIK M., ONGANER Y.
2nd. International Aegean Physical Chemistry Days, 7 - 10 October 2004
- XIII. Formation Dynamics of Molecular Aggregates in Aqueous Medium Containing Surfactants
ARIK M., ONGANER Y.
2nd. International Aegean Physical Chemistry Days, 7 - 10 October 2004
- XIV. Pyronin Bileşiklerinin Heterojen Sulu Ortamda Agregasyonu
ARIK M., ONGANER Y.
First International Aegean Physical Chemistry Days, 5 - 07 June 2002
- XV. Pyronin Türevlerinin Floresans Enerji Transferlerinin Sulu Ortamda Moleküler Oksijen Varlığında İncelenmesi
ÇELEBİ N., ACEMİOĞLU B., ARIK M., ONGANER Y.
13. Ulusal Kimya Kongresi, Turkey, 31 August - 04 September 1999