

Prof. Mustafa ARIK

Personal Information

Web: <https://avesis.atauni.edu.tr/marik>

International Researcher IDs

ScholarID: vRvH10oAAAAJ

ORCID: 0000-0001-5788-4466

Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, Turkey 1999 - 2003

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Turkey 1996 - 1999

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Pyronin B ve Pyronin Y'nin Kolloidal Sistemlerde Fotofiziksel Özelliklerinin İncelenmesi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, 2003

Postgraduate, Floresinin Floresans Şiddeti Üzerine Moleküler Oksijenin Etkisi ve Moleküler Etkileşmeler, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, 1999

Research Areas

Chemistry, Physical Chemistry, Spectroscopy, Natural Sciences

Academic Titles / Tasks

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

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

Atatürk Üniversitesi, 2011 - 2016

Atatürk Üniversitesi, 2009 - 2011

Atatürk Üniversitesi, 2008 - 2010

Courses

Polimer Kimyası, Undergraduate, 2018 - 2019

Advising Theses

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 bileşiğinin sıvı ve misel içeren ortamlardaki fotofiziksel özellikleri ve fotodinamiği, Doctorate, B.Meryem(Student), 2011

ARIK M., Floresin ile merosiyanin 540 molekül çifti arasındaki floresans enerji transferinin model membranlarda 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 kumarin 35 ile pyronin bileşikleri arasındaki floresans enerji transferleri, 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. **Molecular aggregates of pyronin dyes with polyelectrolyte polystyrene sulfonate (PSS) in aqueous solution**
Arik M., Kassa S. B., ONGANER Y.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.391, 2020 (SCI-Expanded)
- II. **Photophysical and photodynamic properties of Pyronin Y in micellar media at different temperatures**
Beşer B. M., Arik M., Onganer Y.
LUMINESCENCE, vol.34, pp.415-425, 2019 (SCI-Expanded)
- III. **Bis(indolyl)methane substituted tetraphenylethylene derivatives as AIE active materials**
Lafzi F., Kılıç H., Ertugrul B., Arik M., Saraçoğlu N.
JOURNAL OF LUMINESCENCE, vol.208, pp.174-182, 2019 (SCI-Expanded)
- IV. **Photophysics and photodynamics of Pyronin Y in n-alcohols**
Beşer B. M., Onganer Y., Arik M.
LUMINESCENCE, vol.33, no.8, pp.1394-1400, 2018 (SCI-Expanded)
- V. **Synthesis and Characterization of Reduced Graphene Oxide/Rhodamine 101 (rGO-Rh101) Nanocomposites and Their Heterojunction Performance in rGO-Rh101/p-Si Device Configuration**
BATIR G. G., ARIK M., Caldiran Z., TÜRÜT A., AYDOĞAN Ş.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.1, pp.329-336, 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. **Pyronin B-Graphene Oxide-Based Turn-On Fluorescent Sensors for Fe³⁺ in an Aqueous Medium: Synthesis and Living Cell Application**
Batir G. G., GEDİKLİ S., ARIK M.
CHEMISTRYSELECT, vol.2, no.33, pp.10889-10894, 2017 (SCI-Expanded)
- VIII. **The thin films of pyronin dyes doped with poly(vinyl sulphate) on glass substrate: Preparation and characterization**
Meral K., ARIK M., ONGANER Y.
Journal of Molecular Structure, vol.1105, pp.350-356, 2016 (SCI-Expanded)

- IX. **Liquid nitrogen-assisted synthesis of fluorescent carbon dots from Blueberry and their performance in Fe 3+ detection**
Aslandas A. M., Balci N., Arik M., Sakiroglu H., Onganer Y., Meral K.
Applied Surface Science, vol.356, pp.747-752, 2015 (SCI-Expanded)
- X. **A novel system for Fe3+ ion detection based on fluorescence resonance energy transfer**
Bozkurt E., Arik M., Onganer Y.
Sensors and Actuators, B: Chemical, vol.221, pp.136-147, 2015 (SCI-Expanded)
- XI. **The fluorescence quenching mechanism of coumarin 120 with CdS nanoparticles in aqueous suspension**
Acar M., BOZKURT E., Meral K., ARIK M., ONGANER Y.
Journal of Luminescence, vol.157, pp.10-15, 2015 (SCI-Expanded)
- XII. **The investigation of the interaction between orientin and bovine serum albumin by spectroscopic analysis**
Toprak M., ARIK M.
LUMINESCENCE, vol.29, no.7, pp.805-809, 2014 (SCI-Expanded)
- XIII. **Graphene oxide sheets as a template for dye assembly: graphene oxide sheets induce H-aggregates of pyronin (Y) dye**
Sinoforoglu M., Gur B., Arik M., Onganer Y., Meral K.
RSC ADVANCES, vol.3, pp.11832-11838, 2013 (SCI-Expanded)
- XIV. **Fluorescence quenching of fluorescein by Merocyanine 540 in liposomes**
Toprak M., Aydin B. M., ARIK M., ONGANER Y.
JOURNAL OF LUMINESCENCE, vol.131, no.11, pp.2286-2289, 2011 (SCI-Expanded)
- XV. **Evaluation of Colour Changed of Acrylic Resin Materials in the Different Solutions**
DUYMUS Z. Y., YANIKOĞLU N., ARIK M.
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.9, pp.6669-6676, 2010 (SCI-Expanded)
- XVI. **An investigation of energy transfer between coumarin 35 and xanthene derivatives in liquid medium**
TOPRAK M., ARIK M.
TURKISH JOURNAL OF CHEMISTRY, vol.34, no.2, pp.285-293, 2010 (SCI-Expanded)
- XVII. **Effect of surfactants on the aggregation of pyronin B and pyronin Y in aqueous solution**
ARIK M., Meral K., ONGANER Y.
JOURNAL OF LUMINESCENCE, vol.129, no.6, pp.599-604, 2009 (SCI-Expanded)
- XVIII. **The fluorescence resonance energy transfer between dye compounds in micellar media**
AYDIN B. M., Acar M., ARIK M., ONGANER Y.
DYES AND PIGMENTS, vol.81, no.2, pp.156-160, 2009 (SCI-Expanded)
- XIX. **Electrochemical Preparation of Pyronin Y Thin Films on Gold Substrates**
ALANYALIOĞLU M., ARIK M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.111, no.1, pp.94-100, 2009 (SCI-Expanded)
- XX. **A systematic study on the absorption and fluorescence properties of 2,4,6-triaryl and tripyridylpyridines**
Findik E., ARIK M., Ceylan M.
TURKISH JOURNAL OF CHEMISTRY, vol.33, no.5, pp.677-684, 2009 (SCI-Expanded)
- XXI. **Cytotoxicity of 1-Aryl-3-buthylamino-1-propanone Hydrochlorides against Jurkat and L6 Cells**
GÜL M., METE E., ATALAY M., ARIK M., GÜL H. İ.
ARZNEIMITTELFORSCHUNG-DRUG RESEARCH, vol.59, no.7, pp.364-369, 2009 (SCI-Expanded)
- XXII. **Synthesis of cyclopropane-annulated conduritol derivatives: norcaran-2,3,4,5-tetraoles**
SENGUEL M. E., MENZEK A., ŞAHİN E., ARIK M., SARAÇOĞLU N.
TETRAHEDRON, vol.64, pp.7289-7294, 2008 (SCI-Expanded)
- XXIII. **Analysis of fluorescence quenching of pyronin B and pyronin Y by molecular oxygen in aqueous solution**
Celebi N., Arik M., Onganer Y.
JOURNAL OF LUMINESCENCE, vol.126, no.1, pp.103-108, 2007 (SCI-Expanded)

XXIV. Fluorescence quenching of fluorescein with molecular oxygen in solution

Arik M., CELEBI N., ONGANER Y.

JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.170, no.2, pp.105-111, 2005 (SCI-Expanded)

Articles Published in Other Journals

I. A Chemical Actinometric Method for the Determination of Corrected Fluorescence Spectra

Acemioğlu B., Arik M., ONGANER Y.

Chimica Acta Turcica, vol.29, pp.1-5, 2001 (Peer-Reviewed Journal)

II. A Chemical Actinometric Method for the Determination of Corrected Fluorescence Spectra

Acemioğlu B., Arik M., ONGANER Y.

Chimica Acta Turcica, vol.29, pp.1-5, 2001 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. Formation Dynamics of Molecular Aggregates in Aqueous Medium Containing Surfactants

ARIK M., ONGANER Y.

2nd. International Aegean Physical Chemistry Days, Balıkesir, Turkey, pp.1

II. Formation Dynamics of Molecular Aggregates in Aqueous Medium Containing Surfactants

ARIK M., ONGANER Y.

2nd. International Aegean Physical Chemistry Days, Balıkesir, Turkey, pp.1

III. Photophysics and Photodynamics of Pyronine Y-Polar Protic Solvent Interaction

Beşer B. M., Arik M., ONGANER Y.

International Conference on Advances in Natural and Applied Sciences, Antalya, Turkey, 18 - 21 April 2017, pp.43

IV. Optical and morphological characterizations of pyronin dye poly vinyl alcohol thin films formed on glass substrates

MERAL K., ARIK M., ONGANER Y.

AIP Conference Proceedings, 21 - 23 April 2016

V. 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 (ICANAS), Antalya, Turkey, 21 - 23 April 2016, vol.1726

VI. A Facile Synthesis of Fluorescent Carbon Dots from Blueberry and Their Performance in Fe³⁺ Detection

ŞENOL A. M., BALCI N., ARIK M., ŞAKİROĞLU H., ONGANER Y., MERAL K.

1st international turkic world conference on chemical sciences and technologies, Bosnia And Herzegovina, 27 October - 01 November 2015

VII. Kumarin 120 ve Floresin molekülüleri arasındaki enerji transferine metal iyonlarının etkisi

BOZKURT E., ARIK M., ONGANER Y.

V. Fiziksel Kimya Günleri, Konya, Turkey, 16 - 19 May 2015

VIII. Kumarin 120 ve Floresin Molekülüleri Arasındaki Enerji Transferine Metal İyonlarının Etkisi

BOZKURT E., ARIK M., ONGANER Y.

V. Fiziksel Kimya Günleri, Konya, Turkey, 16 - 19 May 2015, pp.21

IX. Kumarin 120 ve Floresin Molekülüleri Arasındaki Enerji Transferine Metal İyonlarının Etkisi

BOZKURT E., ARIK M., ONGANER Y.

V. Fiziksel Kimya Günleri, Konya, Turkey, 16 - 19 May 2015, pp.21

X. H-Aggregates of Pyronin Y in Aqueous Solution Containing Graphene Oxide Sheets

SİNOFOROĞLU M., GUR B., ARIK M., ONGANER Y., MERAL K.

International Conference on Engineering and Natural Sciences, Üsküp, Macedonia, 15 - 19 May 2015, pp.75

- XI. **Interactions Between Coumarin 151 and Colloidal CdS Semiconductor Particles in Aqueous Solution**
BOZKURT E., ACAR M., MERAL K., ARIK M., ONGANER Y.
International Semiconductor Science & Technology Conference, İstanbul, Turkey, 13 - 15 January 2014, pp.93
- XII. **Dye-Surfactant Interaction Studied by Photodynamic Parameters**
AYDIN B. M., TOPRAK M., ARIK M., ONGANER Y.
4th EuCheMS Chemistry Congress, Prague, Czech Republic, 26 - 30 August 2012, pp.1112
- XIII. **Merosiyanin 540 Dye Bileşiminin Langmuir-Blodgett (LB) Filmleri: Optik ve Morfolojik Karakterizasyonu**
BOZKURT E., BAYRAKTUTAN T., GÜR B., ACAR M., AYDIN B. M., TOPRAK M., MERAL K., ARIK M., ONGANER Y.
Uluslararası Katılımlı 25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.160
- XIV. **Pyronine Y-Micelle Interactions Depending on Temperature**
AYDIN B. M., ARIK M., ONGANER Y.
IX Chemical Physics Congress, İzmir, Turkey, 14 - 16 October 2010, pp.17
- XV. **The Study of Interactions Between Coumarin 120 and Colloidal Cds with Spectroscopic Techniques**
ACAR M., BOZKURT E., MERAL K., ARIK M., ONGANER Y.
IX. Chemical Physics Congress, İzmir, Turkey, 14 - 16 October 2010, pp.26
- XVI. **A Spectroscopic Study of Fluorescence Quenching Between Fluorescein and Merociyanine 540 in Model Membrane Systems**
TOPRAK M., ARIK M., ONGANER Y.
IX Chemical Physics Congress, İzmir, Turkey, 14 - 16 October 2010, pp.25
- XVII. **The Study of Interactions between Coumarin 120 and Colloidal CdS with Spectroscopic Techniques**
ACAR M., BOZKURT E., MERAL K., ARIK M., ONGANER Y.
IX Chemical Physics Congress, İzmir, Turkey, 14 - 16 October 2010, pp.26
- XVIII. **The Effect of CdS Nano Particles on The Fluorescence of Coumarin 151 Molecules in Aqueous Solution**
BOZKURT E., ACAR M., MERAL K., ARIK M., ONGANER Y.
5. Ulusal Nanobilim ve Nanoteknoloji Konferansı, Eskişehir, Turkey, 8 - 12 June 2009, pp.54
- XIX. **Photophysical Properties of (6-diethylamino-xanthene-3-ylidene)-diethylammonium and (6-diethylamino-xanthene-3-ylidene)-dimethylammonium in Polyelectrolyte Solution**
Meral K., ARIK M., ONGANER Y.
International Conference on Organic Chemistry, Erzurum, Turkey, 5 - 09 July 2007, pp.2
- XX. **Molecular Excitons of Pyronin Dyes in Aqueous Colloidal Medium**
Meral K., ARIK M., ONGANER Y.
2nd. International Aegean Physical Chemistry Days, Balıkesir, Turkey, 7 - 10 October 2004, pp.2
- XXI. **Molecular Excitons of Pyronin Dyes in Aqueous Colloidal Medium**
Meral K., ARIK M., ONGANER Y.
2nd. International Aegean Physical Chemistry Days, Balıkesir, Turkey, 7 - 10 October 2004, pp.2
- XXII. **Pyronin Bileşiklerinin Heterojen Sulu Ortamda Agregasyonu**
ARIK M., ONGANER Y.
First International Aegean Physical Chemistry Days, İzmir, Turkey, 5 - 07 June 2002, pp.1
- XXIII. **Pyronin Bileşiklerinin Heterojen Sulu Ortamda Agregasyonu**
ARIK M., ONGANER Y.
First International Aegean Physical Chemistry Days, İzmir, Turkey, 5 - 07 June 2002, pp.1

Supported Projects

GÜLTEKİN D., ARIK M., ŞEN S., ŞİNOFOROĞLU M., Project Supported by Higher Education Institutions, Perilen Monoimiddiester Türevlerinin Sentezi ve Agregasyon Özelliklerinin İncelenmesi, 2018 - 2019

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

Metrics

Publication: 49

Citation (WoS): 608

Citation (Scopus): 648

H-Index (WoS): 13

H-Index (Scopus): 13

Congress and Symposium Activities

Photophysics and Photodynamics of Pyronine Y- Polar Protic Solvent Interaction, Attendee, Antalya, Turkey, 2017