

## Asst. Prof. EFE BATURHAN ORMAN

### Personal Information

**Email:** efeorman@marmara.edu.tr

**Web:** <https://avesis.marmara.edu.tr/efeorman>

### International Researcher IDs

ORCID: 0000-0002-8441-4061

ScopusID: 55317408000

Yoksis Researcher ID: 54257

### Biography

Efe Baturhan Orman received his PhD in physical chemistry at Marmara University, Istanbul -TURKEY in 2017. He has been working as a Assistant Professor at Marmara University since 2019. His interests are electrochemical, electrocatalytic and electrocolorimetric properties of organic molecules and their applications in thin films and modified electrodes.

### Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Chemistry, Turkey 2010 - 2017

Postgraduate, Marmara University, Faculty of Arts and Sciences, Chemistry, Turkey 2005 - 2010

Undergraduate, Uludağ Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2000 - 2005

### Foreign Languages

English, C2 Mastery

### Dissertations

Doctorate, ELECTROCHEMICAL CHARACTERIZATION, ELECTROCATALYTIC AND ELECTROCHROMIC APPLICATIONS OF VARIOUS PHTHALOCYANINE COMPLEXES, Marmara University, Faculty of Arts and Sciences, Chemistry, 2017

Postgraduate, Marmara University, Faculty of Arts and Sciences, Chemistry, 2010

### Research Areas

Electrochemistry, Spectroscopy, Fuel Cells

### Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Arts and Sciences, Chemistry, 2019 - Continues

Research Assistant, Marmara University, Faculty of Arts and Sciences, Chemistry, 2006 - 2019

### Academic and Administrative Experiences

## Academic and Administrative Experience

Sports Manager of FACULTY OF ARTS AND SCIENCES, Marmara University, Faculty of Arts and Sciences, Chemistry, 2012  
- Continues

## Courses

Physical Chemistry, Undergraduate, 2020 - 2021  
Physical Chemistry Laboratory, Undergraduate, 2020 - 2021  
Physical Chemistry Laboratory I, Undergraduate, 2020 - 2021  
General Chemistry, Undergraduate, 2020 - 2021  
Research Project, Undergraduate, 2020 - 2021  
Physical Chemistry Laboratory II, Undergraduate, 2020 - 2021

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Electrochemical and In-situ exhibited spectroelectrochemical properties of novel 4,4'-(3,5-di-tert-butyl-1,2-phenylene)bis(oxy) substituted ball-type phthalocyanine compounds**  
Şahin S., Kaniz T., ORMAN E. B., ODABAŞ Z., ÖZKAYA A. R.  
Synthetic Metals, vol.297, 2023 (SCI-Expanded)
- II. **Electrochemical and in-situ spectroelectrochemical properties of novel (5-(tert-butyl)-2-((3,4-dicyanophenoxy)methyl)phenyl)methanolate substituted mononuclear metal phthalocyanines**  
Şahin S., Akdağ Ö., ORMAN E. B., ODABAŞ Z., ÖZKAYA A. R.  
Journal of Molecular Structure, vol.1276, 2023 (SCI-Expanded)
- III. **Tetrahydroxyphthalocyanine as a potential nonlinear optical material**  
Işık Büyükeksi S., ORMAN E. B., KARATAY A., Selçuki N. A., ÖZKAYA A. R., ELMALI A., SALİH B., Şengül A.  
Journal of Molecular Structure, vol.1271, 2023 (SCI-Expanded)
- IV. **Novel 2,6-dimethoxyphenoxy alpha substituted phthalocyaninato metal complexes: Electrochemistry, In situ spectroelectrochemistry and oxygen electrocatalysis**  
ORMAN E. B., Yazar Z., PİŞKİN M., ODABAŞ Z., ÖZKAYA A. R.  
SYNTHETIC METALS, vol.290, 2022 (SCI-Expanded)
- V. **Electrochemical, spectroelectrochemical, electrocatalytic oxygen reducing, and heavy metal ion sensing properties of novel tetrakis-[4-((2, 8-bis (trifluoromethyl) quinolin-4-yl) oxy)] substituted metallophthalocyanines**  
Daban N., ORMAN E. B., Meyancı L., ALTINDAL A., ÖZER M., ÖZKAYA A. R.  
Journal of Molecular Structure, vol.1250, 2022 (SCI-Expanded)
- VI. **Electrochemical, Spectroelectrochemical, and Electrocatalytic Dioxygen Reducing Properties of Peripheral Tetra-2,6-dimethoxyphenoxy Substituted Phthalocyanines**  
ORMAN E. B., PİŞKİN M., ODABAŞ Z., ÖZKAYA A. R.  
ELECTROANALYSIS, vol.33, no.11, pp.2310-2322, 2021 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Electrochemical Properties of Hydroxyphenyl Coumarin Substituted Novel Metallophthalocyanine Complexes**  
DİCLE C., GÖRGÜLÜ A. O., ORMAN E. B., ÖZKAYA A. R.  
9 th International Conference on Materials Science and Nanotechnology for Next Generation, Ankara, Turkey, 12 October 2022
- II. **Asetikolinesterazin İletken Tiyo-ene Kürlenebilen Filmler Üzerine İmmobilizasyonu Ve Asetikolin-EsterazBiyosensörünün Geliştirilmesi**

Akgül B., ÇAKMAKÇI E., ORMAN E. B., OGAN A.

31. Ulusal Kimya Kongresi, Turkey, 10 - 13 September 2019

III. **ELECTROCHEMICAL, SPECTROELECTROCHEMICAL AND ELECTROCATALYTIC PROPERTIES OF NEW PERIPHERALLY 2-NAPHTOL SUBSTITUTED METAL-FREE AND METALLOPHthalOCYANINES COMPOUNDS**

ORMAN E. B.

Euroanalyss XX Conference, 1 - 05 September 2019

IV. **Dinökleer Tipte Bir Çinko Ftalosiyanın Bileşiminin Elektrokimyasal, Spektroelektrokimyasal, Fotofiziksel ve Fotokimyasal Özelliklerinin İncelenmesi**

Orman E. B., Atılmış D., Özkaya A. R., Şengül A., Işık Büyükeksi S.

2nd International eurasian conference on biological and chemical sciences, Ankara, Turkey, 28 - 29 June 2019, pp.709

V. **“Electrochemical, in-situ spectroelectrochemical and in-situelectrocolorimetric characterization of peripherally and non-peripherally substituted metal free and metallophthalocyanines”.**

ORMAN E. B.

“13th International Conference on Electrochemistry”, barcelona, 27 - 28 May 2019

VI. **Yeni Piridin Türevi Ftalosiyanın Elektrokimyasal Özellikleri**

ABDURRAHMANOĞLU Ş., ORMAN E. B., ÖZKAYA A. R.

30. ULUSAL KİMYA KONGRESİ, Gazimagusa, Cyprus (Kktc), 5 - 08 November 2018, pp.218

VII. **Electrochemical Properties of Novel Phthalocyanines**

ABDURRAHMANOĞLU Ş., ORMAN E. B., ÖZKAYA A. R.

INTERNATIONAL CHEMISTRY BIOLOGY CONFERENCE'18, 11 - 14 July 2018, pp.180

VIII. **Electrochemical Properties of Novel Sandwich type Phthalocyanines**

ABDURRAHMANOĞLU Ş., ORMAN E. B., ÖZKAYA A. R.

Science & Applications of Thin Films Conference & Exhibition, 19 - 23 September 2016

## Mobility Activity

Erasmus Programme, Intership, Université de Poitiers, France, 2012 - 2012

## Metrics

Publication: 61

Citation (WoS): 387

Citation (Scopus): 297

H-Index (WoS): 11

H-Index (Scopus): 11

## Awards

Orman E. B., Fen Bölümleri Alanında Atf Ödülü, Marmara Üniversitesi Fen-Edebiyat Fakültesi, May 2018

Orman E. B., Fen Bölümleri Alanında Proje Ödülü, Marmara Üniversitesi Fen-Edebiyat Fakültesi, July 2015

## Non Academic Experience

IC2MP UMR CNRS 7285 Poitiers Fransa