

## Prof. ECE TUĞBA SAKA

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAR-2893-2020

ScopusID: 36622779600

Yoksis Researcher ID: 151965

### Education Information

Doctorate, Karadeniz Technical University, -, Kimya, Turkey 2007 - 2012

Postgraduate, Karadeniz Technical University, -, Kimya, Turkey 2005 - 2007

Undergraduate, Karadeniz Technical University, Fen Fakültesi, Kimya, Turkey 2000 - 2005

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Periferel Tetra Sübstiüe Ftalosiyeninlerin Sentezi, Karakterizasyonu ve Kobalt Ftalosiyeninlerin Siklohegzen Oksidasyonu Üzerine Katalitik Etkinliklerinin İncelenmesi, Karadeniz Technical University, Fen Bilimleri, Kimya, 2012

Postgraduate, Yeni Tip Çözünür Ftalosiyeninlerin Sentezi, Karakterizasyonu ve Elektrokimyasal Özelliklerinin İncelenmesi, Karadeniz Technical University, -, Kimya, 2007

### Research Areas

Chemistry, Inorganic Chemistry, Transition Metals, Catalysis, Coordination Chemistry, Natural Sciences

### Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakültesi, Kimya, 2022 - Continues

Associate Professor, Karadeniz Technical University, Fen Fakültesi, Kimya, 2015 - 2022

Research Assistant PhD, Karadeniz Technical University, Fen Fakültesi, Kimya, 2012 - 2015

Research Assistant, Karadeniz Technical University, Fen Fakültesi, Kimya, 2008 - 2012

## Courses

Temel Kimya-1, Undergraduate, 2021 - 2022  
Kobalt Ftalosiyeninler ve Katalitik Özellikleri, Postgraduate, 2019 - 2020  
Homojen Kataliz ve Uygulamaları, Postgraduate, 2017 - 2018  
Genel Kimya Laboratuvarı-II, Undergraduate, 2016 - 2017  
Günlük Hayatta Kimyasallar, Undergraduate, 2016 - 2017  
Anorganik Kimya-II, Undergraduate, 2016 - 2017  
Anorganik Kimya Laboratuvarı, Undergraduate, 2015 - 2016  
Bor Bileşikleri, Undergraduate, 2015 - 2016  
Anorganik Kimya-I, Undergraduate, 2016 - 2017

## Advising Theses

Saka E. T., Thesis, Postgraduate, K.Tekintaş(Student), 2022

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

- I. **Synthesis, characterization, DNA interaction, molecular docking,  $\alpha$ -amylase and  $\alpha$ -glucosidase inhibition studies of a water soluble Zn(II) phthalocyanine**  
Sağlam Ertunga N., Saka E. T., Taşkın T., İnan Bektaş K., Yıldırım Akatın M.  
DALTON TRANSACTIONS, vol.53, pp.11354-11367, 2024 (SCI-Expanded)
- II. **Synthesis, characterization, DNA interaction, molecular docking, and  $\alpha$ -glucosidase inhibition studies of 3-(pyrimidin-2-ylthio) groups substituted water soluble zinc (II) phthalocyanine**  
Sağlam Ertunga N., Saka E. T., Taşkın Tok T., Yıldırım Akatın M., İnan Bektaş K., Çolak A.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.38, pp.1-10, 2024 (SCI-Expanded)
- III. **Synthesis of water soluble cobalt(II), copper(II) phthalocyanines and their usage as a catalyst in the photooxidation of benzyl alcohol in biphasic catalysis**  
Arin Öztürmen B. A., Akkol Ç., Saka E. T., Biyiklioğlu Z.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.158, 2023 (SCI-Expanded)
- IV. **An investigation on photocatalytic and  $\alpha$ -amylase inhibitory activities of Co (II) and Zn(II) phthalocyanines**  
Tugba Saka E. T., Cakmak U., Akkol C., BIYIKLIOĞLU Z.  
POLYHEDRON, vol.243, 2023 (SCI-Expanded)
- V. **Enhancing the photocatalytic performance of Co(II) and Cu(II) phthalocyanine by containing 1,3,4 thiadiazole groups in 4-nitrophenol oxidation reaction**  
SAKA E. T., Tekintas K., BEKİRCAN O., BIYIKLIOĞLU Z.  
Inorganica Chimica Acta, vol.547, 2023 (SCI-Expanded)
- VI. **Investigation of photocatalytic properties of cobalt phthalocyanines on benzyl alcohol photooxidation**  
Yalazan H., Akkol C., SAKA E. T., KANTEKİN H.  
Applied Organometallic Chemistry, vol.37, no.2, 2023 (SCI-Expanded)
- VII. **Synthesis of water soluble copper(II), manganese(III) phthalocyanines and their photocatalytic performances in benzyl alcohol photooxidation**  
Fazlı H., Akkol Ç., OSMANOĞULLARI S. C., BIYIKLIOĞLU Z., SAKA E. T., BEKİRCAN O.  
Journal of Organometallic Chemistry, vol.983, 2023 (SCI-Expanded)
- VIII. **Preparation, characterization and photocatalytic activity of novel 1,2,4-triazole based Cu(II) and Zn(II) phthalocyanines modified TiO<sub>2</sub> nanoparticles**  
Tekintas K., KESMEZ Ö., BEKİRCAN O., SAKA E. T.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1248, 2022 (SCI-Expanded)
- IX. **Synthesis of axially disubstituted silicon phthalocyanines and investigation of their in vitro cytotoxic/phototoxic anticancer activities**

Yurt F., SAKA E. T., BIYIKLIOĞLU Z., Tuncel A., Ozel D., Ocakoglu K.

JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.25, no.1, pp.10-18, 2021 (SCI-Expanded)

- X. **Light driven photodegradation of 4-nitrophenol with novel Co and Cu phthalocyanine in aqueous media**  
Saka E. T., Tekintas K.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1215, 2020 (SCI-Expanded)
- XI. **Design, syntheses, spectroscopic, aggregation properties of novel peripheral octa-substituted zinc(II), magnesium(II) and lead(II) phthalocyanines and investigation of their photocatalytic properties on the photooxidation of 4-nitrophenol**  
Yalazan H., Tekintas K., Serdaroglu V., Saka E. T., Kahriman N., Kantekin H.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.118, 2020 (SCI-Expanded)
- XII. **Substituted Co(II) and Cu(II) metallophthalocyanines from new Schiff base containing pyrrole units: Synthesis, characterization and investigation of photocatalytic activity on 2,3-dichlorophenol oxidation**  
Kamiloglu A. A., SAKA E. T., ACAR İ.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.96, pp.55-65, 2020 (SCI-Expanded)
- XIII. **Synthesis, aggregation, photocatalytical and electrochemical properties of axially 1-benzylpiperidin-4-oxy units substituted silicon phthalocyanine**  
SAKA E. T., YALAZAN H., BIYIKHOGLU Z., KANTEKİN H., TEKİNTAŞ K.  
Journal of Molecular Structure, vol.1199, 2020 (SCI-Expanded)
- XIV. **(E)-4-(4-(3-(2-fluoro-5-(trifluoromethyl)phenyl)acryloyl)phenoxy)Substituted Co(II) and Cu(II) phthalocyanines and their catalytic activities on the oxidation of phenols**  
Saka E. T., Kahriman N.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.895, pp.48-54, 2019 (SCI-Expanded)
- XV. **Synthesis, characterization, and photocatalytic activity of Co(II) and Cu(II) phthalocyanines linked with thiophene-Schiff base substituents for 4-nitrophenol oxidation**  
Kamiloglu A., SAKA E. T., ACAR İ., TEKİNTAS K.  
JOURNAL OF COORDINATION CHEMISTRY, vol.72, no.16, pp.2778-2790, 2019 (SCI-Expanded)
- XVI. **Degradation of substituted phenols with different oxygen sources catalyzed by Co(II) and Cu(II) phthalocyanine complexes**  
SAKA E. T., DUGDU E., ÜNVER Y.  
JOURNAL OF COORDINATION CHEMISTRY, vol.72, pp.1119-1130, 2019 (SCI-Expanded)
- XVII. **Peripherally tetra-{2-(2,3,5,6-tetrafluorophenoxy)ethoxy} substituted cobalt(II), iron(II) metallophthalocyanines: Synthesis and their electrochemical, catalytic activity studies**  
Aktas A., ACAR İ., BIYIKLIOĞLU Z., SAKA E. T.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.828, pp.59-67, 2016 (SCI-Expanded)
- XVIII. **A Simple Spectrofluorimetric Method Based on Quenching of a Nickel(II)-Phthalocyanine Complex to Determine Iron (III)**  
CAGLAR Y., SAKA E. T., ALP H., KANTEKİN H., OCAK Ü., OCAK M.  
JOURNAL OF FLUORESCENCE, vol.26, no.4, pp.1381-1389, 2016 (SCI-Expanded)
- XIX. **Electrochemical and spectroelectrochemical properties of new metal free, nickel(II), lead(II) and zinc(II) phthalocyanines**  
SAKA E. T., Kobak R. Z. U., ALP H., Sarkı G., KOCA A., KANTEKİN H.  
SYNTHETIC METALS, vol.217, pp.295-303, 2016 (SCI-Expanded)
- XX. **An efficient method for the oxidation of phenolic compounds using new Co(II) and Fe(II) phthalocyanines**  
SAKA E. T., CELİK G., Sarkı G., KANTEKİN H.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.85, pp.161-168, 2016 (SCI-Expanded)
- XXI. **Synthesis, structural characterization, catalytic activity on aerobic oxidation of novel Co(II) and Fe(II) phthalocyanines and computational studies of 4-[2-(2,3-dichlorophenoxy)ethoxy]phthalonitrile**

- SAKA E. T., Uzun S., Caglar Y.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.810, pp.25-32, 2016 (SCI-Expanded)
- XXII. **A Simple Spectrofluorimetric Method Based on Quenching of a Nickel(II)-Phthalocyanine Complex to Determine Iron (III)**  
Çağlar Y., SAKA E. T., Alp H., KANTEKİN H., OCAK Ü., OCAK M.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.26, pp.1381-1389, 2016 (SCI-Expanded)
- XXIII. **Electrochemical, spectroelectrochemical and catalytical properties of new Cu(II) and Co(II) phthalocyanines**  
SAKA E. T., Sarkı G., KANTEKİN H., KOCA A.  
SYNTHETIC METALS, vol.214, pp.82-91, 2016 (SCI-Expanded)
- XXIV. **Co(II) and Fe(II) phthalocyanines: synthesis, investigation of their catalytic activity towards phenolic compounds and electrochemical behaviour**  
SAKA E. T., BIYIKLIOĞLU Z.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.29, no.6, pp.392-399, 2015 (SCI-Expanded)
- XXV. **Synthesis and electrochemistry of new octa-substituted metal-free and metallophthalocyanines**  
SAKA E. T., BIYIKLIOĞLU Z.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.29, pp.392-399, 2015 (SCI-Expanded)
- XXVI. **Synthesis and electrochemistry of new octa-substituted metal-free and metallophthalocyanines**  
ACAR İ., SAKA E. T., Topçu S., BIYIKLIOĞLU Z., KANTEKİN H.  
JOURNAL OF COORDINATION CHEMISTRY, vol.68, pp.1847-1858, 2015 (SCI-Expanded)
- XXVII. **Facile synthesis of highly active Co(II) and Fe(II) phthalocyanine catalysts for aerobic oxidation of phenolic compounds**  
SAKA E. T., Sarkı G., KANTEKİN H.  
JOURNAL OF COORDINATION CHEMISTRY, vol.68, no.7, pp.1132-1141, 2015 (SCI-Expanded)
- XXVIII. **Synthesis and electrochemistry of new octa-substituted metal-free and metallophthalocyanines**  
ACAR İ., SAKA E. T., Topcu S., BIYIKLIOĞLU Z., KANTEKİN H., AKTAS A.  
JOURNAL OF COORDINATION CHEMISTRY, vol.68, no.10, pp.1847-1858, 2015 (SCI-Expanded)
- XXIX. **Synthesis, electrochemistry of metal-free, copper, titanium phthalocyanines and investigation of catalytic activity of cobalt, iron phthalocyanines on benzyl alcohol oxidation bearing 4-{2-[3-trifluoromethyl)phenoxy]ethoxy} groups**  
AKTAS A., ACAR İ., BIYIKHOGLU Z., SAKA E. T., KANTEKİN H.  
SYNTHETIC METALS, vol.198, pp.212-220, 2014 (SCI-Expanded)
- XXX. **Highly selective oxidation of benzyl alcohol catalyzed by new peripherally tetra-substituted Fe(II) and Co(II) phthalocyanines**  
CAKIR V., SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.  
SYNTHETIC METALS, vol.197, pp.233-239, 2014 (SCI-Expanded)
- XXXI. **Microwave-assisted synthesis and characterization of Co(II) phthalocyanine and investigation of its catalytic activity on 4-nitrophenol oxidation**  
SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.  
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.6, pp.1166-1173, 2014 (SCI-Expanded)
- XXXII. **Co(II) and Fe(II) phthalocyanines: Synthesis, characterization and catalytic activity on cyclohexene oxidation with different oxygen source**  
SAKA E. T., BIYIKLIOĞLU Z.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.745, pp.50-56, 2013 (SCI-Expanded)
- XXXIII. **Investigation of catalytic activity of new Co(II) phthalocyanine complexes in cyclohexene oxidation using different type of oxidants**  
AKTAS A., SAKA E. T., BIYIKLIOĞLU Z., ACAR İ., KANTEKİN H.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.745, pp.18-24, 2013 (SCI-Expanded)
- XXXIV. **Synthesis, characterization and investigation of homogeneous oxidation activities of peripherally tetra-substituted Co(II) and Fe(II) phthalocyanines: Oxidation of cyclohexene**

- BIYIKLIOĞLU Z., SAKA E. T., GOKCE S., KANTEKİN H.  
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.378, pp.156-163, 2013 (SCI-Expanded)
- XXXV. **New soluble peripherally tetra-substituted Co(II), Fe(II) phthalocyanines: Synthesis, spectroscopic characterization and their catalytic activity in cyclohexene oxidation**  
SAKA E. T., ÇAKIR D., BIYIKLIOĞLU Z., KANTEKİN H.  
DYES AND PIGMENTS, vol.98, no.2, pp.255-262, 2013 (SCI-Expanded)
- XXXVI. **Synthesis, characterization of metal-free, metallophthalocyanines and catalytic activity of cobalt phthalocyanine in cyclohexene oxidation**  
GOKCE S., SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.  
SYNTHETIC METALS, vol.176, pp.108-115, 2013 (SCI-Expanded)
- XXXVII. **Synthesis and characterization of peripheral and non-peripheral substituted Co(II) phthalocyanines and their catalytic activity in styrene oxidation**  
SAKA E. T., ACAR İ., BIYIKLIOĞLU Z., KANTEKİN H., KANI I.  
SYNTHETIC METALS, vol.169, pp.12-17, 2013 (SCI-Expanded)
- XXXVIII. **Novel metal-free, metallophthalocyanines and their quaternized derivatives: Synthesis, spectroscopic characterization and catalytic activity of cobalt phthalocyanine in 4-nitrophenol oxidation**  
ACAR İ., BAYRAK R., SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.  
POLYHEDRON, vol.50, no.1, pp.345-353, 2013 (SCI-Expanded)
- XXXIX. **Synthesis, characterization, photophysical and photochemical properties of tetra-2-[2-(benzothiazolylthio)]ethoxy substituted phthalocyanine derivatives**  
SAKA E. T., ERSOY N., GÖL C., DURMUŞ M., BIYIKLIOĞLU Z., KANTEKİN H.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.723, pp.1-9, 2013 (SCI-Expanded)
- XL. **Synthesis, characterization and catalytic activity of peripherally tetra-substituted Co(II) phthalocyanines for cyclohexene oxidation**  
SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H., KANI I.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.27, no.1, pp.59-67, 2013 (SCI-Expanded)
- XLI. **Photophysical, photochemical and aggregation behavior of novel peripherally tetra-substituted phthalocyanine derivatives**  
SAKA E. T., GÖL C., DURMUŞ M., KANTEKİN H., BIYIKLIOĞLU Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.241, pp.67-78, 2012 (SCI-Expanded)
- XLII. **Photophysical, photochemical and aggregation behavior of novel peripherally tetra-substituted phthalocyanine derivatives**  
SAKA E. T., GÖL C., DURMUŞ M., KANTEKİN H., BIYIKLIOĞLU Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.241, pp.67-78, 2012 (SCI-Expanded)
- XLIII. **Phthalocyanine-based fluorescent chemosensor for the sensing of Zn (II) in dimethyl sulfoxide-acetonitrile**  
CAĞLAR Y., GÜMRÜKÇÜOĞLU N., SAKA E. T., OCAK M., KANTEKİN H., OCAK Ü.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.72, pp.443-447, 2012 (SCI-Expanded)
- XLIV. **Photophysical, Photochemical and Aggregation Behavior of Novel Peripherally Tetra-substituted Phthalocyanine Derivatives**  
SAKA E. T., GÖL C., DURMUŞ M., KANTEKİN H., BIYIKLIOĞLU Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.241, pp.67-78, 2012 (SCI-Expanded)
- XLV. **Solvent and central metal effects on the photophysical and photochemical properties of 4-benzyloxybenzoxy substituted phthalocyanines**  
SAKA E. T., DURMUŞ M., KANTEKİN H.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.696, no.4, pp.913-924, 2011 (SCI-Expanded)
- XLVI. **New Type of Tetrazine-Substituted Metallophthalocyanines by Microwave Irradiation: Synthesis and Characterization**  
SAKA E. T., YILDIRIM N., KANTEKİN H.  
HETEROATOM CHEMISTRY, vol.21, no.7, pp.456-461, 2010 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Synthesis, Characterization and Photocatalytic Properties of Non-peripherally 3- (pyridin-4-yl) propane-1-oxy Groups Substituted Cu (II) Phthalocyanine and Water Soluble Derivative**  
Saka E. T.  
Sakarya University Journal Of Science, vol.24, pp.1029-1039, 2020 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Preparation and characterization of axial disubstituted silicon phthalocyanine modified nano TiO<sub>2</sub> thin films**  
Fazlı H., Akkol Ç., Kesmez Ö., Saka E. T., Bıyıklıoğlu Z.  
1st International Congress on Solutions in Science , İzmir, Turkey, 11 - 13 September 2023, pp.21
- II. **Evaluation of photocatalytic properties of substituted cobalt phthalocyanines on benzyl alcohol photooxidation**  
Yalazan H., Akkol Ç., Saka E. T., Kantekin H.  
5th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2022), Ankara, Turkey, 23 - 25 December 2022, pp.1718
- III. **Metalsiz ve Metalli Ftalosiyanınların Sentezi, Karakterizasyonu ve Co(II) Ftalosiyanınin Katalitik Aktivitesinin İncelenmesi**  
SAKA E. T., Gökçe S., BIYIKLIOĞLU Z., KANTEKİN H.  
4. Ulusal Anorganik Kimya Kongresi, Tokat, Turkey, pp.57
- IV. **'Kobalt(II) Ftalosiyanın; Mikrodalga Sentezi, Karakterizasyonu ve Siklohegzen Oksidasyonu Üzerine Katalitik Etkisinin İncelenmesi**  
SAKA E. T., Kani İ., BIYIKLIOĞLU Z., KANTEKİN H.  
4th National Catalysis Conference, Kocaeli, Turkey, pp.182
- V. **Yeni Bir Okta-Substitued Metal-Free ve Metalloftalosiyanınların Sentezi ve Karakterizasyonu**  
BIYIKLIOĞLU Z., SAKA E. T., KANTEKİN H.  
21. Ulusal Kimya Kongresi konferansı, Malatya, Turkey, pp.20
- VI. **Synthesis, characterization and catalytic activities on benzyl alcohol, styrene oxidation of different group substituted Co(II) phthalocyanines**  
SAKA E. T., BIYIKLIOĞLU Z., ACAR İ., KANTEKİN H., Kani İ.  
3rd European Chemistry Congress, Germany, pp.3
- VII. **'Synthesis, Characterization, Photophysical, Photochemical and Aggregation Behavior of 4-[2-(1,4-Dioxa-8-azaspiro[4.5]dec-8-yl)]ethoxy-Substitued Phthalocyanine**  
SAKA E. T., Göl C., Durmuş M., KANTEKİN H., BIYIKLIOĞLU Z.  
4th European Chemistry Congress, Czech Republic, pp.986
- VIII. **'Selective oxidation reaction of fenol compounds catalyzed by water soluble Fe(II) and Co(II) phthalocyanines**  
SAKA E. T.  
International Congress of Porphyrines and Phthalocyanines Conference, İstanbul, Turkey, pp.682
- IX. **Fe (II) ve Co(II) Ftalosiyanınların Sentezi, Karakterizasyonu ve Siklohegzenin Okidasyon Reaksiyonu Üzerine Katalitik Etkisinin Araştırılması**  
KANTEKİN H., SAKA E. T., BIYIKLIOĞLU Z.  
4. Ulusal Anorganik Kimya Kongresi, Tokat, Turkey, pp.58
- X. **'Floropropanol Grubu İçeren Co(II) Ftalosiyanınin Sentezi, Karakterizasyonu ve Stirenin Oksidasyon Tepkimesi Üzerinde Katalitik Aktivitelerinin İncelenmesi**  
SAKA E. T., Kani İ., KANTEKİN H.  
Organometalik Kimya ve Kataliz Çalıştayı, Malatya, Turkey, pp.19
- XI. **Synthesis, Photophysical and Photochemical Properties of Peripheral Substitued Metal free, Zinc**

**(II) and Lead (II) phthalocyanines**

SAKA E. T., Durmuş M., KANTEKİN H.

3rd European Chemistry Congress, Germany, pp.1

- XII. **'Investigation of Catalytic Activity of Cobalt and Iron Phthalocyanines on Oxidation Reactions of Some Phenolic Compounds**  
SAKA E. T.  
National Catalysis Conference, NCC-5, Adana, Turkey, pp.112
- XIII. **'Synthesis, Characterization of Co(II) Phthalocyanine and Investigation of Its Catalytic Activity on Alcohol Oxidation**  
BIYIKLIOĞLU Z., SAKA E. T., Çakır D., Çakır V., KANTEKİN H.  
4th European Chemistry Congress, Czech Republic, pp.987
- XIV. **'Mikroalga Yöntemi ile Metalli Ftalosiyanın Komplekslerinin Sentezi ve Karakterizasyonu**  
SAKA E. T., YILDIRIM N., KANTEKİN H.  
2. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, pp.89
- XV. **'Farklı Sübstitüent Gruplar İçeren Organosoluble Metalli Ftalosiyanın Spektroskopik Bulgular ile Karakterizasyonu**  
SAKA E. T., KANTEKİN H.  
11. Ulusal Spektroskopi Kongresi, Ankara, Turkey, pp.111
- XVI. **Karışık Donörlü Makrosiklik Grup Taşıyan Yeni (E,E)-Dioksim ve Metal Komplekslerinin Sentezi ve Karakterizasyonu**  
SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.  
1. Ulusal Anorganik Kimya Günleri, Adana, Turkey, pp.48
- XVII. **'Mikroalga Yardımıyla Co(II) Ftalosiyanın Sentezi, Karakterizasyonu ve Alkol Oksidasyonu Üzerine Katalitik Aktivitesinin İncelenmesi**  
SAKA E. T., BIYIKLIOĞLU Z., Kani İ., KANTEKİN H.  
4th National Catalysis Conference, Kocaeli, Turkey, pp.104
- XVIII. **'Synthesis, Characterization and Catalytic Activity on Cyclohexene Oxidation of Peripherally Tetra-Substituted Cobalt(II) Phthalocyanine**  
SAKA E. T., BIYIKLIOĞLU Z., Kani İ., KANTEKİN H.  
4th European Chemistry Congress, Czech Republic, pp.987
- XIX. **'Yeni Tip Organosoluble Metalli Ftalosiyanın Sentezi ve Karakterizasyonu**  
SAKA E. T., KANTEKİN H.  
2. Ulusal Anorganik Kimya Kongresi, Elazığ, Turkey, pp.58
- XX. **Yeni Bir Çözünür Ftalosiyanın ve Metal Komplekslerinin sentezi ve Karakterizasyonu**  
SAKA E. T., BIYIKLIOĞLU Z., KANTEKİN H.  
21. Ulusal Kimya Kongresi konferansı, Malatya, Turkey, pp.48
- XXI. **Electrochemical and Aggregation Properties of New Silicon Phthalocyanine**  
SAKA E. T., YALAZAN H., BIYIKLIOĞLU Z., KANTEKİN H.  
4th Organic Chemistry Congress, Antalya, Turkey, 4 - 07 October 2019, pp.22
- XXII. **Investigation of Photocatalytic Properties of Octa Substituted Zinc(II), Magnesium(II) and Lead(II) Phthalocyanine Compounds on 4-Nitrophenol Photooxidation**  
YALAZAN H., TEKİNTAŞ K., SERDAROĞLU V., KAHRİMAN N., SAKA E. T., KANTEKİN H.  
International Conference on Chemical Energy Semiconductor Photochemistry (CESCOP), Trabzon, Turkey, 4 - 06 September 2019, pp.9
- XXIII. **SYNTHESIS, STRUCTURAL CHARACTERIZATION, AND INVESTIGATION ON PHOTOPHYSICAL AND PHOTOCHEMICAL FEATURES OF NEW METALLOPHTHALOCYANINES**  
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## **Metrics**

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## **Congress and Symposium Activities**

5 th International Euroasian Conference on Biological and Chemical Sciences, Attendee, Ankara, Turkey, 2022

## **Scholarships**

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