

Asst. Prof. NAZLI ÖZTÜRK

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAR-9468-2021

ScopusID: 5720571692857205716928

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Education

Doctorate, Istanbul Technical University, Lisansüstü Eğitim Enstitüsü, Turkey 2015 - 2021

Foreign Languages

English, C1 Advanced

Persian, C2 Mastery

Certificates, Courses and Trainings

Vocational Training, 2. Moleküler Onkolojik Arastirmalarda Nanopartikuller Egitimi, Ege Üniversitesi, 2023

Vocational Training, Nanopartikuler Sistemlerin Hazirlanmasi, inVitro ve inVivo Uygulamalari, Ege Üniversitesi, 2023

Research Areas

Medicine, Pharmacology and Therapeutics, Biochemistry, Chemistry

Academic and Administrative Experience

Internship Committee Member, Acibadem Mehmet Ali Aydinlar University, Faculty Of Pharmacy, Basic Pharmaceutical Sciences, 2025 - Continues

Courses

Undergraduate

Analitik Kimya I + Lab I, Undergraduate, 2024 - 2025

Source and Literature Evaluation, Undergraduate, 2024 - 2025

Social Responsibility Project II, Undergraduate, 2024 - 2025

Analitik Kimya II + Lab II, Undergraduate, 2024 - 2025

Jury Memberships

Committee Of Expert, Committee Of Expert, Acibadem Mehmet Ali Aydınlar Üniversitesi, December, 2024

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Electrodeposited molybdenum-tungsten oxide thin films decorated with cobalt phthalocyanine-reduced graphene oxide composites as functional capacitance materials for asymmetric supercapacitors**
Budak O., Ozturk N., KOCA A.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.188, 2025 (SCI-Expanded)
- II. **Electrodeposition of Manganese (III) Phthalocyanine/Reduced Graphene Oxide for Asymmetric Supercapacitor Devices**
Yenilmez H. Y., Ozturk N., Budak O., Oney O. I., KOCA A., Bayır Z.
CHEMISTRY-AN ASIAN JOURNAL, vol.19, no.24, 2024 (SCI-Expanded)
- III. **Biological properties of 4-trifluoromethylbenzyloxy-substituted cobalt phthalocyanine-gold nanoparticle conjugates**
Goller I., Yenilmez H. Y., Farajzadeh N.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.38, no.7, 2024 (SCI-Expanded)
- IV. **Biological Applications of The Newly Designed Phthalocyanine-Modified Gold Nanorods**
Farajzadeh N., Ozdemir S., Giray G., Aftab J., Bayır Z.
CHEMISTRYSELECT, vol.9, no.1, 2024 (SCI-Expanded)
- V. **Supercapacitive properties of carbazole-containing cobalt phthalocyanines/reduced graphene oxide composites**
Yenilmez H. Y., BUDAK Ö., Farajzadeh N., KOCA A., Boz A., Ustamehmetoğlu B., Bayır Z.
DALTON TRANSACTIONS, vol.53, no.4, pp.1766-1778, 2023 (SCI-Expanded)
- VI. **Design of N-heterocycle based-phthalonitrile/metal phthalocyanine-silver nanoconjugates for cancer therapies**
Oney O. I., Yenilmez H. Y., BAHAR D., Farajzadeh N., Bayır Z.
DALTON TRANSACTIONS, vol.52, no.37, pp.13119-13128, 2023 (SCI-Expanded)
- VII. **Fluorinated Phthalocyanine/Silver Nanoconjugates for Multifunctional Biological Applications**
Altındal A., Farajzadeh N., Yenilmez H. Y., Ozdemir S., Gonca S., Altuntas Bayır Z.
CHEMISTRY & BIODIVERSITY, vol.20, no.7, 2023 (SCI-Expanded)
- VIII. **Silicon Phthalocyanines as Anti-infectious, Antioxidant, and Anticancer Agents**
Yenilmez H. Y., Farajzadeh N., Tollu G., Kusculu N. G., BAHAR D., Ozdemir S., Bayır Z.
CHEMISTRYSELECT, vol.8, no.19, 2023 (SCI-Expanded)
- IX. **The effect of phthalocyanine's periphery on the biological activities of carbazole-containing metal phthalocyanines**
Farajzadeh N., Yenilmez H. Y., BAHAR D., Kusculu N. G., KILIÇKAYA SELVİ E., Bayır Z.
DALTON TRANSACTIONS, vol.52, no.21, pp.7009-7020, 2023 (SCI-Expanded)
- X. **Effect of Axial Ligand Length on Biological and Anticancer Properties of Axially Disubstituted Silicon Phthalocyanines**
Yenilmez H. Y., Farajzadeh N., Kusculu N. G., BAHAR D., Ozdemir S., Tollu G., GÜLLÜ M., Bayır Z.
CHEMISTRY & BIODIVERSITY, vol.20, no.4, 2023 (SCI-Expanded)
- XI. **Sonophotochemical and photochemical efficiency of thiazole- containing metal phthalocyanines and their gold nanoconjugates**

Farajzadeh N., Yenilmez H. Y., Atmaca G. Y., ERDOĞMUŞ A., Bayır Z.

TURKISH JOURNAL OF CHEMISTRY, no.5, pp.1085-1108, 2023 (SCI-Expanded)

- XII. **Anticancer activity of novel silicon phthalocyanines against the colorectal adenocarcinoma cell line (DLD-1)**
Farajzadeh N., Kusculu N. G., Yenilmez H. Y., BAHAR D., Bayır Z.
NEW JOURNAL OF CHEMISTRY, vol.46, no.41, pp.19863-19873, 2022 (SCI-Expanded)
- XIII. **Biological properties of hexadeca-substituted metal phthalocyanines bearing different functional groups**
Farajzadeh N., Ozdemir S., Tollu G., Bayır Z., Koçak M.
JOURNAL OF INORGANIC BIOCHEMISTRY, vol.234, 2022 (SCI-Expanded)
- XIV. **Photophysicochemical and Biological Properties of New Phthalocyanines Bearing 4-(trifluoromethoxy)phenoxy and 2-(4-methylthiazol-5-yl)ethoxy Groups on Peripheral Positions**
Farajzadeh N., Ozdemir S., Gonca S., Atmaca G. Y., ERDOĞMUŞ A., Bayır Z., Koçak M.
PHOTOCHEMISTRY AND PHOTOBIOLOGY, vol.98, no.4, pp.894-906, 2022 (SCI-Expanded)
- XV. **Anticancer and biological properties of new axially disubstituted silicon phthalocyanines**
Farajzadeh N., Kusculu N. G., Yenilmez H. Y., BAHAR D., Bayır Z.
DALTON TRANSACTIONS, vol.51, no.19, pp.7539-7550, 2022 (SCI-Expanded)
- XVI. **Biological properties of novel mono and double-decker hexadeca-substituted metal phthalocyanines**
Farajzadeh N., Celik C., Ozdemir S., Gonca S., Koçak M.
NEW JOURNAL OF CHEMISTRY, vol.46, no.15, pp.7177-7186, 2022 (SCI-Expanded)
- XVII. **New phthalonitrile/metal phthalocyanine-gold nanoparticle conjugates for biological applications**
Aftab J., Farajzadeh N., Yenilmez H. Y., ozdemir S., Gonca S., Altuntas Bayır Z.
DALTON TRANSACTIONS, vol.51, no.11, pp.4466-4476, 2022 (SCI-Expanded)
- XVIII. **The design and synthesis of metallophthalocyanine-gold nanoparticle hybrids as biological agents**
Farajzadeh N., Aftab J., Yenilmez H. Y., Ozdemir S., Gonca S., Bayır Z.
NEW JOURNAL OF CHEMISTRY, vol.46, no.11, pp.5374-5384, 2022 (SCI-Expanded)
- XIX. **Photophysicochemical, sonochemical, and biological properties of novel hexadeca-substituted phthalocyanines bearing fluorinated groups**
Farajzadeh N., Celik C., Atmaca G. Y., Ozdemir S., Gonca S., ERDOĞMUŞ A., Koçak M.
DALTON TRANSACTIONS, vol.51, no.2, pp.478-490, 2022 (SCI-Expanded)
- XX. **Gallium chloride phthalocyanines possessing 4-(trifluoromethoxy)phenoxy units: Synthesis, characterization, and photophysicochemical investigations**
Farajzadeh N., Atmaca G. Y., Cinar M. E., ERDOĞMUŞ A., Koçak M.
JOURNAL OF THE CHINESE CHEMICAL SOCIETY, vol.68, no.8, pp.1466-1477, 2021 (SCI-Expanded)
- XXI. **Comparatively singlet oxygen efficiency by sono-photochemical and photochemical studies of new lutetium (III) phthalocyanines**
Farajzadeh N., Atmaca G. Y., ERDOĞMUŞ A., Koçak M.
DYES AND PIGMENTS, vol.190, 2021 (SCI-Expanded)
- XXII. **Investigation of tyrosinase enzyme (from mushroom) inhibitory activities and antioxidant properties of new fluorine-containing phthalocyanines**
Farajzadeh N., Sağlam Ö., Akin M., ŞAKİ N., Koçak M.
ARCHIV DER PHARMAZIE, vol.354, no.4, 2021 (SCI-Expanded)
- XXIII. **Effect of Position and Connected Atom on Photophysical and Photochemical Properties of Some Fluorinated Metallophthalocyanines**
Sağlam Ö., Farajzadeh N., YAŞA ATMACA G., ERDOĞMUŞ A., Koçak M.
PHOTOCHEMISTRY AND PHOTOBIOLOGY, vol.97, no.2, pp.270-277, 2021 (SCI-Expanded)
- XXIV. **Investigation of the biological and photophysicochemical properties of new non-peripheral fluorinated phthalocyanines**
Celik C., Farajzadeh N., Akin M., Atmaca G. Y., Sağlam Ö., ŞAKİ N., ERDOĞMUŞ A., Koçak M.
DALTON TRANSACTIONS, vol.50, no.8, pp.2736-2745, 2021 (SCI-Expanded)
- XXV. **Nonlinear optical behavior and optical power limiting characteristics of peripheral symmetrical and**

non-symmetrical zinc phthalocyanines with nanosecond pulsed excitation

Erdem M., Korkmaz E., GÖRK G., Ahmetali E., Farajzadeh N., Eryürek G., Koçak M.

POLYHEDRON, vol.195, 2021 (SCI-Expanded)

- XXVI. **Electrochemical and spectroelectrochemical characterizations of new tetra-substituted metallophthalocyanines bearing 4-(trifluoromethoxy)phenoxy groups on non-peripheral positions**
Farajzadeh N., Akyuz D., KOCA A., Koçak M.
MONATSCHEFTE FÜR CHEMIE, vol.151, no.9, pp.1337-1348, 2020 (SCI-Expanded)
- XXVII. **Nonlinear optical properties of peripheral symmetrically and non-symmetrically 4-(trifluoromethoxy)phenoxy substituted zinc phthalocyanines**
Farajzadeh N., GÖRK G., Erdem M., Eryürek G., Koçak M.
SYNTHETIC METALS, vol.266, 2020 (SCI-Expanded)
- XXVIII. **Synthesis, electrochemistry and in situ spectroelectrochemistry of novel tetra- and octa-substituted metallophthalocyanines bearing peripherally 4-(trifluoromethoxy)phenoxy groups**
Farajzadeh N., Akyuz D., KOCA A., Koçak M.
POLYHEDRON, vol.177, 2020 (SCI-Expanded)
- XXIX. **A novel fluorimetric method for determination of pseudoephedrine hydrochloride in pharmaceutical formulations and blood serum**
Farajzadeh N., Ranjbar Nader N.
TURKISH JOURNAL OF CHEMISTRY, no.3, pp.656-669, 2020 (SCI-Expanded)
- XXX. **Synthesis, Photophysical and Biological Properties of New Phthalocyanines Bearing Peripherally 4-(Trifluoromethoxy)phenoxy Groups**
Farajzadeh N., Pekbelgin Karaoğlu H. R., Akin M., ŞAKİ N., Koçak M.
CHEMISTRYSELECT, vol.4, no.31, pp.8998-9005, 2019 (SCI-Expanded)
- XXXI. **Antimicrobial and antioxidant properties of novel octa-substituted phthalocyanines bearing (trifluoromethoxy)phenoxy groups on peripheral positions**
Farajzadeh N., Pekbelgin Karaoğlu H. R., Akin M., ŞAKİ N., Koçak M.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, vol.23, no.1-2, pp.91-102, 2019 (SCI-Expanded)
- XXXII. **A new spectrofluorimetric method for the determination of some tetracyclines based on their interfering effect on resonance fluorescence energy transfer**
Abolhasani J., Farajzadeh N.
LUMINESCENCE, vol.30, no.3, pp.257-262, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. **Biological Performance of Hexadeca-Substituted Metal Phthalocyanine/Reduced Graphene Oxide Nanobioagents**
Farajzadeh N., Ozdemir S., Yalcin M. S., Tollu G., Bayır Z., Kocak M. B.
ACS APPLIED BIO MATERIALS, vol.7, no.5, pp.3215-3226, 2024 (ESCI)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Anticancer Activities of Phthalocyanines**
ÖZTÜRK N.
1st Edition of Strenuous World Congress on CANCER SCIENCE AND RESEARCH, 17 - 18 April 2024, (Summary Text)
- II. **Hexadeca-substituted metal phthalocyanines bearing 3,4-ethylenedioxythiophene groups on peripheral and non-peripheral positions**
ÖZTÜRK N., YENİLMEZ H. Y., KOÇAK M.
Frühjahrssymposium 2023, Germany, 21 - 24 March 2023, (Summary Text)

- III. **Carbazole-containing metal phthalocyanines**
ÖZTÜRK N., YENİLMEZ H. Y., KOÇAK M.
Frühjahrssymposium 2023, Germany, 21 - 24 March 2023, (Summary Text)
- IV. **The Role of Phthalocyanines in The Modification of Nanomaterials' Properties**
ÖZTÜRK N.
1st Global Conference on Nano Technology, 26 - 27 July 2022, (Summary Text)
- V. **Synthesis and Characterization of Tetra-substituted Nickel Phthalocyanine Bearing 3,5-bis (trifluoromethyl)phenoxy Groups on Non-Peripheral Positions**
ÇELİK Ç., ÖZTÜRK N., KOÇAK M.
11th International Conference on Porphyrins and Phthalocyanines (ICPP), United States Of America, 28 June - 03 July 2021, (Summary Text)
- VI. **Synthesis and Characterization of Unsymmetrically Substituted Zinc Phthalocyanine Bearing Fluorinated groups on non-peripheral positions,**
ÖZTÜRK N., KOÇAK M.
11th International Conference on Porphyrins and Phthalocyanines (ICPP), United States Of America, 28 June - 03 July 2021, (Summary Text)
- VII. **Antimicrobial Phthalocyanines Bearing Fluorinated groups on peripheral positions**
ÖZTÜRK N., GÜLER N., KOÇAK M.
5. Uluslararası Biyosidal Kongresi, Turkey, 5 - 07 March 2021, (Summary Text)
- VIII. **Synthesis, Characterization and Spectral Properties of a Novel Symmetrical Palladium Phthalocyanine**
ÖZTÜRK N., PEKBELGİN KARAOĞLU H. R., KOÇAK M.
International Conference of FJS 2018, Germany, 21 - 24 March 2018, (Summary Text)
- IX. **Synthesis, Characterization and Spectral Properties of a Novel Symmetrical Zinc Phthalocyanine**
ÖZTÜRK N., PEKBELGİN KARAOĞLU H. R., KOÇAK M.
International Conference of ISMEC 2016, Spain, 7 - 10 July 2016, (Summary Text)

Funded Projects

Öztürk N., Yenilmez H. Y., Kobak R. Z., Özçelik Ş., Erdem M., Bayir Z., Project Supported by Higher Education Institutions, NonLineer Optiksel ve Optik Sınırlama Uygulamalar için YeniTip Ftalosiyanin-Modifiye Altın Nanopartiküller, 2024 - 2027

Öztürk N., Koca A., Yenilmez H. Y., Bayir Z., TUBITAK Project, İndirgenmiş Grafen Oksit/Metalli Ftalosiyanin Polimer KompozitlerininHazırlanması Ve Süperkapasitör Uygulamaları, 2022 - 2025

Öztürk N., Bayir Z., Özdemir S., TUBITAK Project, Biyolojik Uygulamalar İçin Çok-İşlevli Kuaterner Metalli Ftalosiyaninler, 2023 - 2024

Öztürk N., Özdemir S., Yenilmez H. Y., Bayir Z., Project Supported by Other Official Institutions, Metalli ve metalsızftalosiyanin-altın nanokonjugelerinin biyolojik özellikleri, 2023 - 2024

Güler N., Bayir Z., TUBITAK Project, DNA İnterkalasyon Ajanı ve Topoizomeraz Enzimİnhibitörü Olarak Kullanımının Moleküler Biyoloji Teknikleri İle Araştırılması, 2021 - 2022

Eryürek G., Sağlam Ö., Özçeşmeci I., Koçak M., TUBITAK Project, Nonlineer Optik Uygulamalar için Yeni Push-Pull Ftalosiyaninler, 2015 - 2018

Peer Reviews in Scientific Publications

CHEMISTRY AND BIODIVERSITY, Journal Indexed in ESCI, January 2025

CHEMISTRYSELECT, National Scientific Refreed Journal, December 2024

PHARMACEUTICALS, Journal Indexed in ESCI, December 2024

JOURNAL OF INORGANIC BIOCHEMISTRY, Journal Indexed in SCI-E, July 2024

MOLECULES, Journal Indexed in ESCI, July 2024

BIOMEDICINES, Journal Indexed in ESCI, April 2024

SEPARATIONS, Journal Indexed in ESCI, February 2024

FOODS, Journal Indexed in ESCI, December 2023

Processes, SCI Journal, November 2023

MOLECULES, Journal Indexed in ESCI, October 2023

BIOTECHNOLOGY LETTERS, SCI Journal, April 2023

SUSTAINABILITY, Journal Indexed in ESCI, April 2023

INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH AND PUBLIC HEALTH, National Scientific Refreed Journal, January 2023

MEMBRANES, National Scientific Refreed Journal, December 2022

MOLECULES, Journal Indexed in ESCI, December 2022

APPLIED SCIENCES, SCI Journal, October 2022

MICROMACHINES, National Scientific Refreed Journal, July 2022

CHEMPHYSCHEM, National Scientific Refreed Journal, May 2021

Metrics

Publication: 43

Citation (WoS): 357

Citation (Scopus): 353

H-Index (WoS): 12

H-Index (Scopus): 13

Scholarships

Doktora sonrası araştırmacı 1001 proje bursiyeri, TUBITAK, 2022 - 2024

Doktora sonrası araştırmacı performans, Other Government Agencies, 2022 - 2024

Doktora sonrası araştırmacı 1002 proje bursiyeri, TUBITAK, 2021 - 2022

Doktora Öğrencisi 1001 proje bursiyeri, TUBITAK, 2015 - 2018