

## Assoc. Prof. CAN ÖZGÜR YALÇIN

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAW-2940-2020

ScopusID: 56816709400

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### Education Information

Doctorate, Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji Anabilim Dalı, Turkey 2012 - 2017

Postgraduate, Karadeniz Technical University, Sağlık Bilimleri Enstitüsü, Tıbbi Biyokimya Anabilim Dalı, Turkey 2009 - 2012

Undergraduate, Ataturk University, Eczacılık Fakültesi, Eczacılık, Turkey 2002 - 2006

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Bor maruziyetinin insanların üreme fonksiyonu üzerindeki toksik etkilerinin araştırılması , Ankara University, Sağlık Bilimleri Enstitüsü, Farmasötik Toksikoloji , 2017

Postgraduate, Türk propolis ekstraktlarının iyonizan (Gama) radyasyonla uyarılmış insan lenfositleri üzerine olası radyoprotektif etkisinin değerlendirilmesi, Karadeniz Technical University, Sağlık Bilimleri Fakültesi, Tıbbi Biyokimya, 2012

### Research Areas

Health Sciences, Pharmacology and Therapeutics, Professional Sciences, Pharmaceutical Toxicology

### Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2021 - Continues

Assistant Professor, Karadeniz Technical University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2018 - 2021

Assistant Professor, Karadeniz Technical University, Eczacılık Fakültesi, Eczacılık Meslek Bilimleri, 2017 - 2018

## Academic and Administrative Experience

Karadeniz Technical University, Eczacılık Fakültesi, Eczacılık, 2019 - Continues

Fakülte Yönetim Kurulu Üyesi, Karadeniz Technical University, Eczacılık Fakültesi, Eczacılık, 2019 - 2022

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

- I. **The synthesis and therapeutic effect of silicon(IV) phthalocyanines for colorectal cancer cells in photodynamic therapy by altering Wnt/13-catenin and apoptotic signaling**  
BARUT B., BARUT E. N., YALÇIN C. Ö., Ali Y. A., AKKAYA D., SEYHAN G., ENGİN S., BIYIKLIOĞLU Z.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.453, 2024 (SCI-Expanded)
- II. **In vitro cholinesterases, tyrosinase,  $\alpha$ -glucosidase inhibitory and anticancer effects of novel silicon phthalocyanines containing geraniol/phytol**  
Yalazan H., Barut B., Yalçın C. Ö., Kantekin H., Yıldırım S.  
INORGANIC CHEMISTRY COMMUNICATION, no.x, pp.112548, 2024 (SCI-Expanded)
- III. **Highly water soluble axial disubstituted silicon(IV) phthalocyanine, naphthalocyanine: Synthesis, DNA interaction and anticancer effects against human lung (A549), liver (SNU-398), melanoma (SK-MEL128), prostate (DU-145), breast (BT-20) cell lines**  
Baş H., Biyıklıoğlu Z., Barut B., Yalçın C. Ö., Özel A.  
INORGANIC CHEMISTRY COMMUNICATIONS, vol.156, 2023 (SCI-Expanded)
- IV. **Design, Synthesis, Biological Activity and Molecular Docking Studies of New Imine-Chalcone Derivatives**  
Çelik G., Yılmaz G. T., BARUT B., YALÇIN C. Ö., YAYLI N.  
PHARMACEUTICAL CHEMISTRY JOURNAL, vol.57, no.4, pp.550-558, 2023 (SCI-Expanded)
- V. **Evaluation of photodynamic therapy effects of novel zinc (II) phthalocyanine through a possible interaction with toll-like receptor signaling pathway**  
Barut B., Yalçın C. Ö., Altun Y., Akkaya D., Barut E. N., Baş H., Biyıklıoğlu Z.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.37, no.4, 2023 (SCI-Expanded)
- VI. **DNA interaction, cytotoxic and phototoxic properties of new water-soluble zinc (II) phthalocyanines**  
BIYIKLIOĞLU Z., Bas H., ALTUN ALI Y., YALÇIN C. Ö., BARUT B.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.36, no.12, 2022 (SCI-Expanded)
- VII. **Axially disubstituted silicon (IV) phthalocyanines containing different isoxazolyl groups: Design, syntheses, binding and in vitro phototoxic activities against SH-SY5Y cells**  
Yalazan H., BARUT B., YILDIRIM S., YALÇIN C. Ö., KANTEKİN H.  
Journal of Molecular Structure, vol.1262, 2022 (SCI-Expanded)
- VIII. **Synthesis of water-soluble BODIPY dyes and investigation of their DNA interaction properties and cytotoxicity/phototoxicity**  
KELEŞ T., BARUT B., YILDIRIM S., YALÇIN C. Ö., BIYIKLIOĞLU Z.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.35, no.11, 2021 (SCI-Expanded)
- IX. **The water soluble Zn(II) and Mg(II) phthalocyanines: Synthesis, photochemical, DNA photodamage and PDT effects against A549 cells**  
Barut B., YALÇIN C. Ö., DEMİRBAŞ Ü.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.405, 2021 (SCI-Expanded)
- X. **Peripheral or nonperipheral tetra-[4-(9H-carbazol-9-yl)phenoxy] substituted cobalt(II), manganese(III) phthalocyanines: Synthesis, acetylcholinesterase, butyrylcholinesterase, and  $\alpha$ -glucosidase inhibitory effects and anticancer activities**  
Barut B., Keles T., BIYIKLIOĞLU Z., YALÇIN C. Ö.

Applied Organometallic Chemistry, vol.35, no.1, 2021 (SCI-Expanded)

- XI. **Photodynamic therapy effect of morpholinium containing silicon (IV) phthalocyanine on HCT-116 cells.**  
YALÇIN C. Ö., Barut B., BARUT E. N., DEMİRBAŞ Ü., DİNÇER T., ENGİN S., ÖZEL A., Sena Sezen F. S.  
Photodiagnosis and photodynamic therapy, vol.32, pp.101975, 2020 (SCI-Expanded)
- XII. **Development and in vitro evaluation of BSA-coated liposomes containing Zn (II) phthalocyanine-containing ferrocene groups for photodynamic therapy of lung cancer**  
ÇOBAN Ö., Barut B., YALÇIN C. Ö., ÖZEL A., BIYIKLIOĞLU Z.  
Journal of Organometallic Chemistry, vol.925, 2020 (SCI-Expanded)
- XIII. **The novel Zn(II) phthalocyanines: Synthesis, characterization, photochemical, DNA interaction and cytotoxic/phototoxic properties**  
Barut B., YALÇIN C. Ö., DEMİRBAŞ Ü., AKÇAY H. T., KANTEKİN H., ÖZEL A.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1218, 2020 (SCI-Expanded)
- XIV. **Effects of boric acid on cell death and oxidative stress of mouse TM3 Leydig cells in vitro**  
YALÇIN C. Ö., Abudayyak M.  
Journal of Trace Elements in Medicine and Biology, vol.61, 2020 (SCI-Expanded)
- XV. **Photochemical and in vitro phototoxic properties of Zn (II) phthalocyanine bearing piperidinium groups on different cell lines**  
Barut B., YALÇIN C. Ö., DEMİRBAŞ Ü., ÖZEL A.  
JOURNAL OF ORGANOMETALLIC CHEMISTRY, vol.921, 2020 (SCI-Expanded)
- XVI. **Evaluation of oxidative stress and immune parameters of boron exposed males and females**  
Başaran N., Duydu Y., Bacanlı M., Gül Anlar H., DİLSİZ S. A., Üstündağ A., YALÇIN C. Ö., Schwerdtle T., Bolt H. M.  
Food and Chemical Toxicology, vol.142, 2020 (SCI-Expanded)
- XVII. **Synthesis of axially disubstituted quaternized silicon phthalocyanines as a promising photosensitizer for the photodynamic treatment of HCT-116, A549 and SH-SY5Y cancer cell lines**  
YALÇIN C. Ö., Bas H., Barut B., ÖZEL A., BIYIKLIOĞLU Z.  
DALTON TRANSACTIONS, vol.49, no.15, pp.4927-4934, 2020 (SCI-Expanded)
- XVIII. **Occupational exposure of dental technicians to methyl methacrylate: Genotoxicity assessment**  
Soykut B., Erdem O., YALÇIN C. Ö., ÜSTÜNDAĞ A., DUYDU Y., Akay C., Piskin B.  
MUTATION RESEARCH-GENETIC TOXICOLOGY AND ENVIRONMENTAL MUTAGENESIS, vol.852, 2020 (SCI-Expanded)
- XIX. **Synthesis, DNA interaction, in vitro/in silico topoisomerase II inhibition and photodynamic therapy activities of two cationic BODIPY derivatives**  
Barut B., COBAN O., YALÇIN C. Ö., Bas H., SARI S., Biyiklioglu Z., Demirbas Ü., ÖZEL A.  
DYES AND PIGMENTS, vol.174, 2020 (SCI-Expanded)
- XX. **DNA interaction and anticancer properties of new peripheral phthalocyanines carrying tosylated 4-morpholinoaniline units**  
Yalazan H., Barut B., Ertem B., Yalçin C. Ö., Ünver Y., Özel A., Omeroglu I., Durmus M., Kantekin H.  
POLYHEDRON, vol.177, 2020 (SCI-Expanded)
- XXI. **Non-aggregated axially disubstituted silicon phthalocyanines: Synthesis, DNA cleavage and in vitro cytotoxic/phototoxic anticancer activities against SH-SY5Y cell line**  
Barut B., Biyikhoglu Z., YALÇIN C. Ö., Abudayyak M.  
DYES AND PIGMENTS, vol.172, 2020 (SCI-Expanded)
- XXII. **Novel water soluble BODIPY compounds: Synthesis, photochemical, DNA interaction, topoisomerases inhibition and photodynamic activity properties**  
Barut B., YALÇIN C. Ö., SARI S., ÇOBAN Ö., Keles T., BIYIKLIOĞLU Z., Abudayyak M., DEMİRBAŞ Ü., ÖZEL A.  
EUROPEAN JOURNAL OF MEDICINAL CHEMISTRY, vol.183, 2019 (SCI-Expanded)
- XXIII. **Evaluation of the DNA damage in lymphocytes, sperm and buccal cells of workers under environmental and occupational boron exposure conditions.**  
BAŞARAN N., DUYDU Y., ÜSTÜNDAĞ A., TANER G., AYDIN S., ANLAR H., Yalçin C. Ö., BACANLI M., AYDOS K., ATABEKOĞLU C., et al.

- Mutation research, vol.843, pp.33-39, 2019 (SCI-Expanded)
- XXIV. **Environmental boron exposure does not induce DNA damage in lymphocytes and buccal cells of females: DNA damage in lymphocytes and buccal cells of boron exposed females.**  
BAŞARAN N., DUYDU Y., ÜSTÜNDAĞ A., TANER G., Aydın D., ANLAR H., Yalçın C. Ö., BACANLI M., GOLKA K., SCHWERDTLE T., et al.  
Journal of trace elements in medicine and biology : organ of the Society for Minerals and Trace Elements (GMS), vol.53, pp.150-153, 2019 (SCI-Expanded)
- XXV. **Boron-exposed male workers in Turkey: no change in sperm Y:X chromosome ratio and in offspring's sex ratio**  
Duydu Y., Başaran N., Yalçın C. Ö., Üstündağ A., Aydın S., Anlar H. G., Bacanlı M., Aydos K., Atabekoğlu C. S., Golka K., et al.  
Archives of Toxicology, vol.93, no.3, pp.743-751, 2019 (SCI-Expanded)
- XXVI. **Synthesis & anticancer evaluation of new substituted 2-(3,4- Dimethoxyphenyl)benzazoles**  
Karaaslan C., Duydu Y., Ustundag A., Yalcin C. Ö., Kaskatepe B., Goker H.  
Medicinal Chemistry, vol.15, no.3, pp.287-297, 2019 (SCI-Expanded)
- XXVII. **Evaluation of FSH, LH, testosterone levels and semen parameters in male boron workers under extreme exposure conditions**  
Duydu Y., Başaran N., Aydın S., Üstündağ A., Yalçın C. Ö., Anlar H. G., Bacanlı M., Aydos K., Atabekoğlu C. S., Golka K., et al.  
Archives of Toxicology, vol.92, no.10, pp.3051-3059, 2018 (SCI-Expanded)
- XXVIII. **Birth weights of newborns and pregnancy outcomes of environmentally boron-exposed females in Turkey**  
Duydu Y., Başaran N., Üstündağ A., Aydın S., Yalçın C. Ö., Anlar H. G., Bacanlı M., Aydos K., Atabekoğlu C. S., Golka K., et al.  
Archives of Toxicology, vol.92, no.8, pp.2475-2485, 2018 (SCI-Expanded)
- XXIX. **Evaluation of the radioprotective effect of Turkish propolis on foreskin fibroblast cells**  
Yalcin C. Ö., ALİYAZICIOĞLU Y., DEMİR S., Turan I., BAHAT Z., Mısır S., DEĞER O.  
Journal of Cancer Research and Therapeutics, vol.12, no.2, pp.990-994, 2016 (SCI-Expanded)
- XXX. **Synthesis and In Vitro Activity of Polyhalogenated 2-phenylbenzimidazoles as a New Class of anti-MRSA and Anti-VRE Agents.**  
GÖKER H., KARAASLAN C., PÜSKÜLLÜ M., YILDIZ S., DUYDU Y., ÜSTÜNDAĞ A., Yalcin C. Ö.  
Chemical biology & drug design, vol.87, pp.57-68, 2016 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Evaluation of Cytotoxic Effects of 2-Monochloropropanediol (2-MCPD) on Mouse TM3 Leydig and TM4 Sertoli Cells in vitro**  
YALÇIN C. Ö., YILMAZ SARIALTIN S., ABUDAYYAK M., YENİLMEZ E.  
Journal of Nutrition and Dietetics, vol.48, no.1, pp.55-62, 2020 (Peer-Reviewed Journal)
- II. **Is there an association between extreme levels of boron exposure and decrease in Y:X sperm ratio in men? results of an epidemiological study Erkeklerde Y:X sperm oranındaki azalma ile aşırı düzeyde bor maruziyeti arasında bir ilişki var mıdır? epidemiyolojik çalışma sonuçları**  
Yalcin C. Ö., Ustundag A., Duydu Y.  
Turkish Journal of Pharmaceutical Sciences, vol.16, no.1, pp.96-100, 2019 (ESCI)

## Metrics

Publication: 55

Citation (WoS): 273

Citation (Scopus): 292

H-Index (WoS): 11

H-Index (Scopus): 11

## **Non Academic Experience**

Trabzon Kadın Doğum ve Çocuk Hastalıkları Hastanesi