

## Assoc. Prof. Nilüfer BAYRAK

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: C-7647-2019

ScopusID: 8987654600

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### Education Information

Doctorate, Istanbul University, Fen Bilimleri Ens., Kimya, Organik Kimya Prog., Turkey 2005 - 2009

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Mühendislik Fakültesi Bölümü, Turkey 1999 - 2003

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Kinonlar ve Bazı Nükleofillerden Yeni Substitüe Kinonların Sentezi, Istanbul University, Institute of Graduate Studies In Sciences, Kimya Bölümü/Organik Kimya , 2009

Postgraduate, Bazı Yeni Tiyokinonların Sentezi, Istanbul University, Institute of Graduate Studies In Sciences, Kimya/Organik Kimya, 2003

### Research Areas

Chemistry, Organic Chemistry, Chemistry of Aromatic Compounds, Chemistry of Heterocyclic Compounds, Organic Spectroscopy, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Istanbul University, Faculty of Science, Department of Chemistry, 2022 - Continues

Other, İstanbul University-Cerrahpaşa, Faculty Of Engineering, Department Of Chemistry, 2010 - 2022

Research Assistant, Istanbul University, Faculty of Science, Department of Chemistry, 2001 - 2003

### Courses

General Chemistry II, Undergraduate, 2021 - 2022

General Chemistry I, Undergraduate, 2021 - 2022

Organik Kimya Laboratuvarı 1, Undergraduate, 2015 - 2016, 2013 - 2014, 2002 - 2003  
Organik Kimya Laboratuvarı 2, Undergraduate, 2013 - 2014, 2001 - 2002  
Besin Kimyası Laboratuvarı 2, Undergraduate, 2013 - 2014, 2012 - 2013  
Besin Kimyası Laboratuvarı 1, Undergraduate, 2013 - 2014, 2012 - 2013  
Organik Kimya Laboratuvarı 1, Undergraduate, 2013 - 2014  
Besin Kimyası Laboratuvarı 2, Undergraduate, 2011 - 2012, 2010 - 2011  
Tekstil Kimyası Laboratuvarı, Undergraduate, 2011 - 2012  
Tekstil Boyama Teknolojisi Laboratuvarı, Undergraduate, 2011 - 2012, 2010 - 2011  
Besin Kimyası Laboratuvarı 1, Undergraduate, 2011 - 2012  
Tekstil Boyama Teknolojisi Laboratuvarı, Undergraduate, 2010 - 2011  
Tekstil Hazırlama Teknolojileri Laboratuvarı, Undergraduate, 2010 - 2011  
Tekstil Kimyası Laboratuvarı, Undergraduate, 2011 - 2012  
Tekstil Kimyası, Undergraduate, 2010 - 2011  
Tekstil Kimyası 1 Laboratuvarı , Undergraduate, 2010 - 2011  
Besin Kimyası 1, Undergraduate, 2010 - 2011  
Organik Kimya 2 Laboratuvarı , Undergraduate, 2002 - 2003  
Organik Kimya Laboratuvarı, Undergraduate, 2001 - 2002

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

- I. **Prospects for Prostate Cancer Chemotherapy: Cytotoxic Evaluation and Mechanistic Insights of Quinolinequinones with ADME/PK Profile**  
JANNUZZI A. T., YILMAZ GÖLER A. M., Biswas A., Mondal S., Basavanakatti V. N., YILDIRIM H., Yıldız M., BAYRAK N., Jayaprakash V., TUYUN A. F.  
Biomedicines, vol.12, no.6, 2024 (SCI-Expanded)
- II. **Discovery of the Aminated Quinoxalines as Potential Active Molecules**  
Bener S., Bayrak N., Mataracı Kara E., Yıldız M., Sever B., Çiftçi H. İ., Tuyun A. F.  
LETTERS IN DRUG DESIGN AND DISCOVERY, vol.1, no.2, pp.1-9, 2024 (SCI-Expanded)
- III. **Scaffold Hopping and Structural Modification of NSC 663284: Discovery of Potent (Non)Halogenated Aminobenzoquinones**  
BAYRAK N., SEVER B., Ciftci H., Otsuka M., Fujita M., TUYUN A. F.  
BIOMEDICINES, vol.12, no.1, 2024 (SCI-Expanded)
- IV. **Cytotoxic activity of quinolinequinones in cancer: In vitro studies, molecular docking, and ADME/PK profiling**  
JANNUZZI A. T., YILMAZ GÖLER A. M., Shilkar D., Mondal S., Basavanakatti V. N., Yildirim H., Yıldız M., Celik Onar H., BAYRAK N., Jayaprakash V., et al.  
CHEMICAL BIOLOGY & DRUG DESIGN, vol.102, no.5, pp.1133-1154, 2023 (SCI-Expanded)
- V. **Analysis of Quinolinequinone Analogs with Promising Cytotoxic Activity against Breast Cancer**  
YILMAZ GÖLER A. M., Tarbin Jannuzzi A. T., Biswas A., Mondal S., Basavanakatti V. N., Jayaprakash Venkatesan R., YILDIRIM H., Yıldız M., ÇELİK ONAR H., BAYRAK N., et al.  
CHEMISTRY & BIODIVERSITY, vol.20, no.9, 2023 (SCI-Expanded)
- VI. **Design, synthesis, in vitro and in silico characterization of plastoquinone analogs containing piperidine moiety as antimicrobial agents**  
Yıldız M., YILDIRIM H., BAYRAK N., Çakmak S. M., MATARACI KARA E., ÖZBEK ÇELİK B., Otsuka M., Fujita M., Radwan M. O., TUYUN A. F.  
Journal of Molecular Structure, vol.1277, 2023 (SCI-Expanded)
- VII. **Studies on 1,4-Quinone Derivatives Exhibiting Anti-Leukemic Activity along with Anti-Colorectal and Anti-Breast Cancer Effects**  
Ciftci H., SEVER B., Kaya N., BAYRAK N., Yıldız M., YILDIRIM H., Tateishi H., Otsuka M., Fujita M., TUYUN A. F.  
Molecules, vol.28, no.1, 2023 (SCI-Expanded)

- VIII. **Aminated Quinolinequinones as Privileged Scaffolds for Antibacterial Agents: Synthesis, In Vitro Evaluation, and Putative Mode of Action**  
YILDIRIM H., Bayrak N., YILDIZ M., Matraci-Kara E., Korkmaz S., Shilkar D., Jayaprakash V., Tuyun A. F.  
ACS OMEGA, vol.7, no.46, pp.41915-41928, 2022 (SCI-Expanded)
- IX. **Identification of New L-Heptanoylphosphatidyl Inositol Pentakisphosphate Derivatives Targeting the Interaction with HIV-1 Gag by Molecular Modelling Studies**  
Ciftci H., Sever B., Ayan E., Can M., DeMirci H., Otsuka M., TUYUN A. F., Tateishi H., Fujita M.  
PHARMACEUTICALS, vol.15, no.10, 2022 (SCI-Expanded)
- X. **In Vitro Cytotoxicity Evaluation of Plastoquinone Analogues against Colorectal and Breast Cancers along with In Silico Insights**  
Ciftci H., Sever B., Bayrak N., Tateishi H., Otsuka M., Fujita M., TuYuN A. F., Mahmut Yildiz M. Y., YILDIRIM H.  
PHARMACEUTICALS, vol.15, no.10, 2022 (SCI-Expanded)
- XI. **Exploring the Relationships between Structure and Antimicrobial Potency of Quinolinequinones**  
Mataraci-Kara E., Bayrak N., YILDIZ M., YILDIRIM H., TuYuN A. F.  
ANTIBIOTICS-BASEL, vol.11, no.10, 2022 (SCI-Expanded)
- XII. **In Vitro and In Silico Study to Assess Toxic Mechanisms of Hybrid Molecules of Quinone-Benzocaine as Plastoquinone Analogues in Breast Cancer Cells**  
Goler A. M. Y., JANNUZZI A. T., Bayrak N., Yildiz M., Yildirim H., Otsuka M., Fujita M., Radwan M. O., TUYUN A. F.  
ACS OMEGA, vol.7, no.34, pp.30250-30264, 2022 (SCI-Expanded)
- XIII. **Natural-product-inspired design and synthesis of thiolated coenzyme Q analogs as promising agents against Gram-positive bacterial strains: insights into structure-activity relationship, activity profile, mode of action, and molecular docking**  
YILDIRIM H., YILDIZ M., BAYRAK N., Mataraci-Kara E., Ozbek-Celik B., Otsuka M., Fujita M., Radwan M. O., TuYuN A. F.  
RSC ADVANCES, vol.12, no.32, pp.20507-20518, 2022 (SCI-Expanded)
- XIV. **Exploring the Anticancer Effects of Brominated Plastoquinone Analogs with Promising Cytotoxic Activity in MCF-7 Breast Cancer Cells via Cell Cycle Arrest and Oxidative Stress Induction**  
JANNUZZI A. T., Goler A. M. Y., Bayrak N., Yildiz M., Yildirim H., Yilmaz B. K., Shilkar D., Venkatesan R. J., Jayaprakash V., TUYUN A. F.  
PHARMACEUTICALS, vol.15, no.7, 2022 (SCI-Expanded)
- XV. **Promising Antibacterial and Antifungal Agents Based on Thiolated Vitamin K3 Analogs: Synthesis, Bioevaluation, Molecular Docking**  
Yildirim H., Yildiz M., Bayrak N., Mataraci-Kara E., Radwan M. O., Jannuzzi A. T., Otsuka M., Fujita M., Tuyun A. F.  
PHARMACEUTICALS, vol.15, no.5, 2022 (SCI-Expanded)
- XVI. **Highly Active Small Aminated Quinolinequinones against Drug-Resistant Staphylococcus aureus and Candida albicans**  
Yildirim H., Bayrak N., Yildiz M., Yilmaz F. N., Mataraci-Kara E., Shilkar D., Jayaprakash V., TuYuN A. F.  
MOLECULES, vol.27, no.9, 2022 (SCI-Expanded)
- XVII. **In Vitro and In Silico Study of Analogs of Plant Product Plastoquinone to Be Effective in Colorectal Cancer Treatment**  
Ciftci H., Sever B., Ocak F., Bayrak N., YILDIZ M., YILDIRIM H., DeMirci H., Tateishi H., Otsuka M., Fujita M., et al.  
MOLECULES, vol.27, no.3, 2022 (SCI-Expanded)
- XVIII. **Active Quinolinequinones against Methicillin-Resistant Staphylococcus spp**  
Mataraci-Kara E., Bayrak N., Yildiz M., Yildirim H., Tuyun A. F.  
CHEMISTRY & BIODIVERSITY, vol.19, no.1, 2022 (SCI-Expanded)
- XIX. **Anticancer agents based on Plastoquinone analogs with N-phenylpiperazine: Structure-activity relationship and mechanism of action in breast cancer cells**  
JANNUZZI A. T., Yildiz M., Bayrak N., Yildirim H., Shilkar D., Jayaprakash V., TuYu A. F.  
CHEMICO-BIOLOGICAL INTERACTIONS, vol.349, 2021 (SCI-Expanded)
- XX. **Exploration of brominated Plastoquinone analogs: Discovery and structure-activity relationships of small antimicrobial lead molecules**

YILDIZ M., BAYRAK N., YILDIRIM H., Mataraci-Kara E., Shilkar D., Jayaprakash V., Tuyun A. F.  
BIOORGANIC CHEMISTRY, vol.116, 2021 (SCI-Expanded)

- XXI. **Bis(Substituted Phenylamino)Glyoxime derivatives: Synthesis, characterization, and antimicrobial evaluation**  
TUYUN A. F., BAYRAK N., YILDIRIM H., Yıldız M., MATARACI KARA E., ÖZBEK ÇELİK B.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1242, 2021 (SCI-Expanded)
- XXII. **Plastoquinone analogs: a potential antimicrobial lead structure intensely suppressing Staphylococcus epidermidis and Candida albicans growth**  
Mataracı Kara E., Bayrak N., Yıldırım H., Yıldız M., Ataman M., Özbek Çelik B., Tuyun A. F.  
MEDICINAL CHEMISTRY RESEARCH, vol.30, no.9, pp.1728-1737, 2021 (SCI-Expanded)
- XXIII. **Design, synthesis and investigation of the mechanism of action underlying anti-leukemic effects of the quinolinequinones as LY83583 analogs**  
Ciftci H., Bayrak N., Yildiz M., Yildirim H., Sever B., Tateishi H., Otsuka M., Fujita M., TUYUN A. F.  
BIOORGANIC CHEMISTRY, vol.114, 2021 (SCI-Expanded)
- XXIV. **Structure based design, synthesis, and evaluation of anti-CML activity of the quinolinequinones as LY83583 analogs**  
BAYRAK N., Ciftci H. I., Yıldız M., YILDIRIM H., Sever B., Tateishi H., Otsuka M., Fujita M., TUYUN A. F.  
CHEMICO-BIOLOGICAL INTERACTIONS, vol.345, 2021 (SCI-Expanded)
- XXV. **Novel plastoquinone analogs containing benzocaine and its analogs: structure-based design, synthesis, and structural characterization**  
Bayrak N., Yildiz M., Yildirim H., Mataraci-Kara E., TUYUN A. F.  
RESEARCH ON CHEMICAL INTERMEDIATES, vol.47, no.5, pp.2125-2141, 2021 (SCI-Expanded)
- XXVI. **Brominated plastoquinone analogs: Synthesis, structural characterization, and biological evaluation**  
Bayrak N., Yıldız M., Yıldırım H., Mataracı Kara E., Özbek Çelik B., Tuyun A. F.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1219, 2020 (SCI-Expanded)
- XXVII. **Chlorinated plastoquinone analogs that inhibit Staphylococcus epidermidis and Candida albicans growth**  
Kara E., Bayrak N., Yıldırım H., Yıldız M., Celik B., Tuyun A. F.  
FOLIA MICROBIOLOGICA, vol.65, no.5, pp.785-795, 2020 (SCI-Expanded)
- XXVIII. **A novel series of chlorinated plastoquinone analogs: Design, synthesis, and evaluation of anticancer activity**  
Bayrak N., Yıldırım H., Yıldız M., Radwan M. O., Otsuka M., Fujita M., Ciftci H. I., TUYUN A. F.  
CHEMICAL BIOLOGY & DRUG DESIGN, vol.95, no.3, pp.343-354, 2020 (SCI-Expanded)
- XXIX. **Discovery and structure-activity relationship of plastoquinone analogs as anticancer agents against chronic myelogenous leukemia cells**  
Ciftci H. I., Bayrak N., Yıldırım H., Yıldız M., Radwan M. O., Otsuka M., Fujita M., Tuyun A. F.  
ARCHIV DER PHARMAZIE, vol.352, no.12, 2019 (SCI-Expanded)
- XXX. **Crystal Structures of 2-Chloro-3-((3-(trifluoromethyl)phenyl)amino)naphthalene-1,4-dione and 2-Chloro-3-((4-(trifluoromethyl)phenyl)amino)naphthalene-1,4-dione**  
Yildirim H., Yildiz M., Bayrak N., Sahin M., Tuyun A. F.  
CRYSTALLOGRAPHY REPORTS, vol.64, no.7, pp.1030-1033, 2019 (SCI-Expanded)
- XXXI. **Discovery of a new family of heterocyclic amine linked plastoquinone analogs for antimicrobial evaluation**  
Tuyun A. F., Yildiz M., Bayrak N., Yildirim H., Kara E., Jannuzzi A. T., Celik B. O.  
DRUG DEVELOPMENT RESEARCH, vol.80, no.8, pp.1098-1109, 2019 (SCI-Expanded)
- XXXII. **Design, synthesis, and biological activity of Plastoquinone analogs as a new class of anticancer agents**  
Bayrak N., Yıldırım H., Yıldız M., Radwan M. O., Otsuka M., Fujita M., Tuyun A. F., Ciftci H. I.  
BIOORGANIC CHEMISTRY, vol.92, 2019 (SCI-Expanded)
- XXXIII. **Thiolated plastoquinone analogs: Synthesis, characterization, and antimicrobial evaluation**  
Yildirim H., Bayrak N., Yildiz M., Kara E., Celik B., Tuyun A. F.

- JOURNAL OF MOLECULAR STRUCTURE, vol.1195, pp.681-688, 2019 (SCI-Expanded)
- XXXIV. **Novel azanaphthoquinone compounds with aromatic amino moiety: Synthesis, structural characterization, and antimicrobial features**  
Bayrak N.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1195, pp.411-416, 2019 (SCI-Expanded)
- XXXV. **Crystal Structure of 2-(Hexyloxy)benzo[b]phenazine-6,11-dione**  
Yildiz M., BAYRAK N., YILDIRIM H., Sahin M., TUYUN A. F.  
CRYSTALLOGRAPHY REPORTS, vol.63, no.6, pp.925-929, 2018 (SCI-Expanded)
- XXXVI. **A new family of azanaphthoquinones for antimicrobial evaluation**  
Bayrak N.  
CHEMISTRY CENTRAL JOURNAL, vol.12, 2018 (SCI-Expanded)
- XXXVII. **CRYSTAL STRUCTURE OF 2-(3,5-DIMETHOXYPHENYLAMINO)-3-CHLORONAPHTHALENE-1,4-DIONE**  
Bayrak N., Yildiz M., Yildirim H., Sahin M., Tuyun A. F.  
BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA, vol.32, no.3, pp.603-608, 2018 (SCI-Expanded)
- XXXVIII. **Synthesis, Computational Study, and Evaluation of In Vitro Antimicrobial, Antibiofilm, and Anticancer Activities of New Sulfanyl Aminonaphthoquinone Derivatives**  
Bayrak N., Yildirim H., Tuyun A. F., Kara E. M., Celik B. O., Gupta G. K., Ciftci H. I., Fujita M., Otsuka M., Nasrı H. R.  
LETTERS IN DRUG DESIGN & DISCOVERY, vol.14, no.6, pp.647-661, 2017 (SCI-Expanded)
- XXXIX. **2,3-Disubstituted-1,4-naphthoquinones containing an arylamine with trifluoromethyl group: synthesis, biological evaluation, and computational study**  
Yildirim H., Bayrak N., Tuyun A. F., Kara E. M., Celik B. O., Gupta G. K.  
RSC ADVANCES, vol.7, no.41, pp.25753-25764, 2017 (SCI-Expanded)
- XL. **Synthesis, Biological, and Computational Study of Naphthoquinone Derivatives Containing Heteroatoms**  
Bayrak N., Yildirim H., Tuyun A. F., Kara E. M., Celik B. O., Gupta G. K.  
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.38, no.6, pp.1211-1221, 2016 (SCI-Expanded)
- XLI. **Synthesis and In Vitro Biological Evaluation of Aminonaphthoquinones and Benzo[b]phenazine-6,11-dione Derivatives as Potential Antibacterial and Antifungal Compounds**  
Tuyun A. F., Bayrak N., Yildirim H., Onul N., Kara E. M., Celik B. O.  
JOURNAL OF CHEMISTRY, vol.2015, 2015 (SCI-Expanded)
- XLII. **Spectroscopic and structural aspects of the reactions of 1,4-quinones with sulfur and nitrogen nucleophiles**  
Bayrak N., Tuyun A. F., Yildirim H., Onul N.  
COMPTEs RENDUS CHIMIE, vol.17, no.6, pp.563-569, 2014 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Investigation of Antimicrobial, Antibiofilm, and Cytotoxic Effects of Straight-Chained Sulfanyl Members of Arylamino-1,4-naphthoquinones as Potential Antimicrobial Agents**  
MATARACI KARA E., JANUZZI A. T., BAYRAK N., YILDIRIM H., YILDIZ M., TUYUN A. F., ALPERTUNGA B., Celik B. O.  
European Journal of Biology, vol.78, no.2, pp.117-123, 2019 (Scopus)
- II. **Novel Straight-Chained Sulfanyl Members of Arylamino-1,4-naphthoquinones: Synthesis and Characterization**  
BAYRAK N.  
Journal of the Turkish Chemical Society, Section A: Turkish Journal of Chemistry, vol.4, pp.597-606, 2017 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Identification of Plastoquinone Analogs To Be Effective in Breast Cancer Treatment**

Tuyun A. F., Bayrak N., Yıldız M., Yıldırım H., Jannuzzi A. T., Shilkar D., Jayaprakash V.  
EFMC-ASMC International Symposium on Advances in Synthetic and Medicinal Chemistry, Zagreb, Croatia, 3 - 07  
September 2023, pp.250

**II. Sulfonamide-Based Azanaphthoquinone Hybrid Molecules: Promising Antimicrobial Agents**

Tuyun A. F., Bayrak N.

EFMC-ASMC International Symposium on Advances in Synthetic and Medicinal Chemistry, Zagreb, Croatia, 3 - 07  
September 2023, pp.149

**III. New Isoquinolinequinone Analogs As Potential Anticancer Agents**

Bayrak N., Tuyun A. F.

EFMC-ASMC International Symposium on Advances in Synthetic and Medicinal Chemistry, Zagreb, Croatia, 3 - 07  
September 2023, pp.109

**IV. Synthesis of New Imidazole Substituted Chalcones with Antimicrobial Study**

Mammadov E., Bayrak N., Mataracı Kara E., Tuyun A. F.

19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, no.313, pp.102

**V. Discovery of Isoquinolinequinones with Promising Biological Properties**

Bayrak N., Mataracı Kara E., Tuyun A. F.

19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, no.430, pp.107

**VI. Biologically Important Members of The Quinone Family: Abenquines and Their Analogs**

Tuyun A. F., Bayrak N., Mataracı Kara E.

19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, no.423, pp.105

**VII. Microwave-Assisted Synthesis of Alkoxy Substituted Chalcones**

Kıraç Aydın A., Bayrak N., Mataracı Kara E., Tuyun A. F.

19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, no.436, pp.108

**VIII. Design, Synthesis, and Investigation of the Biological Properties of the Quinolinequinone Analogs**

Taghiyeva A., Bayrak N., Mataracı Kara E., Tuyun A. F.

19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, no.300, pp.108

**IX. Novel Abenquine Analogs: Synthesis and Biological Activity**

Gafuroğlu V., Bayrak N., Mataracı Kara E., Tuyun A. F.

19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, no.287, pp.106

**X. "Alkoxy- and Thiosubstituted-1,4-Quinones"**

Bayrak N., GÖKSEL F. S., İbiş C.

5th International Symposium on Pharmaceutical Chemistry, İstanbul, Turkey, pp.97

**XI. Synthesis and Characterization of Novel Quinone Derivatives**

Yıldız M., Tuyun A. F., Bayrak N., Yıldırım H., Mataracı Kara E., Özbek Çelik B.

4th Organic Chemistry Congress with International Participation, Antalya, Turkey, 4 - 07 October 2018, vol.PP59,  
pp.293

**XII. Structure-activity Relationship Study of Azanaphthoquinones for Anticancer and Antimicrobial Evaluation**

TUYUN A. F., BAYRAK N.

International Symposium on Multidisciplinary Studies (ISMS), Ankara, Turkey, 10 - 11 November 2017, pp.20

**XIII. Nucleophilic Substitution Reactions of Dimethylbenzoquinones with Alkoxy Amines and Their Biological Evaluation**

YILDIRIM H., TUYUN A. F., BAYRAK N., MATARACI KARA E., ÖZBEK ÇELİK B.

The Second Japan-Turkey International Symposium on Pharmaceutical and Biomedical Sciences, Trabzon, Turkey,  
11 - 12 September 2017, pp.61

**XIV. Synthesis and Biological Evaluation of Dimethyl Amino Benzoquinones**

BAYRAK N., TUYUN A. F., YILDIRIM H., MATARACI KARA E., ÖZBEK ÇELİK B.

The Second Japan-Turkey International Symposium on Pharmaceutical and Biomedical Sciences, Trabzon, Turkey,  
11 - 12 September 2017, pp.63

**XV. Antimicrobial and Anticancer Activities of Amino Sulfanyl 1,4-Naphthoquinone and Benzo[b]phenazine-6,11-dione Derivatives**

- TUYUN A. F., BAYRAK N., YILDIRIM H., MATARACI KARA E., ÖZBEK ÇELİK B., Nasiri H. R.  
6th International Chemistry Conference, Riyad, Saudi Arabia, 8 - 10 November 2016
- XVI. **Synthesis, Characterization, and Biological Evaluation of Aminobenzoquinone Derivatives**  
TUYUN A. F., BAYRAK N., YILDIRIM H., MATARACI KARA E., ÖZBEK ÇELİK B.  
6th International Chemistry Conference, Riyad, Saudi Arabia, 8 - 10 November 2016
- XVII. **Synthetic Studies on Quinones by Means of Nucleophilic Substitution**  
BAYRAK N.  
2nd International Conference on New Trends in Chemistry, Zagreb, Croatia, 19 - 22 April 2016, pp.418
- XVIII. **Synthesis and Characterization of 1,4-Naphthoquinone Derivatives**  
TUYUN A. F., BAYRAK N., YILDIRIM H., ONUL N.  
Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with international participation, Sarajevo, Bosnia And Herzegovina, 10 - 12 October 2014, vol.PP-OMC-12, pp.114
- XIX. **Synthesis and Characterization of Sulfur Containing Ethoxy 1,4-Benzoquinones**  
BAYRAK N.  
Synthes Congress of Chemists and Chemical Engineers of Bosnia and Herzegovina with international participation, Sarajevo, Bosnia And Herzegovina, 10 - 12 October 2014, pp.129
- XX. **Synthesis of Some Novel Aromatic Compounds Based on Benzoquinone Ring**  
BAYRAK N., TUYUN A. F.  
24rd International Society of Heterocyclic Chemistry Congress, Shanghai, China, 8 - 13 September 2013, vol.Poster-081, pp.150
- XXI. **Synthesis of Persubstituted Pyrazoles via Intramolecular Reactions**  
TUYUN A. F., BAYRAK N.  
24rd International Society of Heterocyclic Chemistry Congress, Shanghai, China, 8 - 13 September 2013, vol.Poster-093, pp.156
- XXII. **New Heterocyclic Compounds Based on Polyhalogenated Nitrodienes**  
BAYRAK N., ONUL N.  
NILUFER BAYRAK, Nihal Onul, "New H 3rd International Conference of Young Scientists – Chemistry Today 2013, Tbilisi, Georgia, 17 - 19 May 2013, pp.120
- XXIII. **The Investigation of Naphthoquinones with N- and S- Nucleophiles**  
ONUL N., BAYRAK N.  
Nihal Onul, NILUFER 3rd International Conference of Young Scientists – Chemistry Today 2013, Tbilisi, Georgia, 17 - 19 May 2013, pp.118
- XXIV. **The Reaction of Ethoxy, Halo-1,4-Benzoquinones with Aromatic Amines**  
BAYRAK N., İbiş C.  
26. Ulusal Kimya Kongresi, Muğla, Turkey, 1 - 06 October 2012, pp.248
- XXV. **Design and Synthesis New Heterocyclic Compounds Retaining The "Core" Quinone Chromophore**  
BAYRAK N., İbiş C.  
7th Eurasian Meeting on Heterocyclic Chemistry, İstanbul, Turkey, 17 - 21 June 2012, pp.67
- XXVI. **The Synthesis of New Ethoxy-Thioquinone Compounds**  
BAYRAK N., GÖKSEL F. S., İbiş C.  
23rd International Congress on Heterocyclic Chemistry, Glasgow, United Kingdom, 31 July - 04 August 2011, pp.194
- XXVII. **The Synthesis of Some New Thioquinone Derivatives**  
BAYRAK N., GÖKSEL F. S., İbiş C.  
23rd International Congress on Heterocyclic Chemistry, Glasgow, United Kingdom, 31 July - 04 August 2011, pp.217
- XXVIII. **Bazı Yeni Etoksi-kloro-tiyosübstitüe 1,4-Kinonların Sentezi**  
BAYRAK N., GÖKSEL F. S., İbiş C.  
25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June - 02 July 2011, pp.313
- XXIX. **Alkoxy- and Thiosubstituted 1,4-Quinones**  
BAYRAK N., GÖKSEL F. S., İbiş C.

5th International Symposium on Pharmaceutical Chemistry, İstanbul, Turkey, 5 - 07 July 2007, pp.97

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GÖKSEL F. S., Akgün N., İBİŞ C., BAYRAK N.

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## Supported Projects

Tuyun A. F., Bayrak N., Mataracı Kara E., Project Supported by Higher Education Institutions, İmidazol Halkası İçeren Kalkon Moleküllerinin Çeşitli Enfeksiyon Etkeni Mikroorganizmalara Karşı Etkinliklerinin İncelenmesi, 2023 - 2025

BAYRAK N., TUYUN A. F., TAGHİYEVA A., Project Supported by Higher Education Institutions, İzokinolinkinon Analoglarının Tasarımı Sentezi ve Antikanser Özelliklerinin İncelenmesi, 2022 - 2024

Bayrak N., Tuyun A. F., Project Supported by Higher Education Institutions, Abenquine Analoglarının Tasarımı, Sentezi ve Antikanser Özelliklerinin İncelenmesi, 2022 - 2024

Bayrak N., Tuyun A. F., Yıldırım H., Yıldız M., Project Supported by Higher Education Institutions, Amino Sübstitüe Azanaftokinonların Sentezi, 2019 - 2021

Bayrak N., Tuyun A. F., Yıldırım H., Project Supported by Higher Education Institutions, Sülfanil Sübstitüe 1,4-Benzokinonların Sentezi Karakterizasyonu ve Biyolojik Aktivitelerinin İncelenmesi, 2017 - 2019

BAYRAK N., TUYUN A. F., MATARACI KARA E., YILDIRIM H., YILDIZ M., Project Supported by Higher Education Institutions, Amino-1,4-benzokinonların Sentezi ve Biyolojik Aktivitelerinin İncelenmesi, 2017 - 2018

TUYUN A. F., YILDIZ M., YILDIRIM H., BAYRAK N., Project Supported by Higher Education Institutions, 1,4-Kinonların Siklik Yapıdaki İkincil Aminlerle olan Reaksiyonlarından Amino-1,4-Kinon Bileşiklerinin Sentezlenmesi, 2016 - 2018

TUYUN A. F., YILDIRIM H., YILDIZ M., BAYRAK N., ÖZBEK ÇELİK B., MATARACI KARA E., Project Supported by Higher Education Institutions, 2,3-Diklor-1,4-kinonların Aromatik Birincil Aminlerle Olan Reaksiyonlarından 2-Amino-3-klor-1,4-kinon Türevlerinin Sentezi Ve Elde Edilen Bileşiklerin Biyolojik Aktivitelerinin İncelenmesi, 2016 - 2017

BAYRAK N., Project Supported by Higher Education Institutions, Aminonaftokinon ve Benzo[b]fenazin-6,11-dion Bileşiklerinin Sentezi ve Biyolojik Değerlendirmesi, 2015 - 2017

YILDIRIM H., BAYRAK N., TUYUN A. F., Project Supported by Higher Education Institutions, Arilamino 1,4-Naftokinonların Çeşitli Tiyollerle Reaksiyonları ve Elde Edilen Ürünlerin Biyolojik Özelliklerinin İncelenmesi, 2015 - 2017

TUYUN A. F., BAYRAK N., YILDIRIM H., MATARACI KARA E., ÖZBEK ÇELİK B., NASİRİ H. R., Project Supported by Higher Education Institutions, Antimicrobial and Anticancer Activities of Amino Sulfanyl 1,4-Naphthoquinone and Benzo[b]phenazine-6,11-dione Derivatives, 2016 - 2016

BAYRAK N., Project Supported by Higher Education Institutions, Synthetic Studies on Quinones by Means of Nucleophilic Substitution, 2016 - 2016

BAYRAK N., Project Supported by Higher Education Institutions, Kinonların Sülfür ve Tiyol Nükleofilleri ile Reaksiyonlarının İncelenmesi, 2015 - 2016

BAYRAK N., Project Supported by Higher Education Institutions, Heteroatom İçeren Sübstitüe 1-4-Naftokinon Bileşiklerinin Sentezi ve Biyolojik Aktivitelerinin İncelenmesi, 2014 - 2015

BAYRAK N., Project Supported by Higher Education Institutions, Synthesis of Some Novel Aromatic Compounds Based on Benzoquinone Ring, 2013 - 2013

BAYRAK N., Project Supported by Higher Education Institutions, The Synthesis of Some New Ethoxy-Thioquinone Compounds, 2011 - 2011

Bayrak N., Project Supported by Higher Education Institutions, Kinonlar ve Bazı Nükleofillerden Yeni Sübstitüe Kinonların Sentezi, 2006 - 2008

Bayrak N., Project Supported by Higher Education Institutions, Bazı Yeni Tiyokinonların Sentezi, 2001 - 2003



## Metrics

Publication: 76

Citation (WoS): 419

Citation (Scopus): 438

H-Index (WoS): 11

H-Index (Scopus): 11

## Congress and Symposium Activities

Synthetic Studies on Quinones by Means of Nucleophilic Substitution, Attendee, Zagreb, Croatia, 2016

Synthesis of Some Novel Aromatic Compounds Based on Benzoquinone Ring, Attendee, China, 2013

Synthesis of Persubstituted Pyrazoles via Intramolecular Reactions, Attendee, China, 2013

New Heterocyclic Compounds Based on Polyhalogenated Nitrodienes, Attendee, Georgia, 2013

The investigation of Naphthoquinones with N- and S-Nucleophiles, Attendee, Georgia, 2013

Etoksi, Halo-1,4-Benzokinonların Aromatik Aminler ile Reaksiyonları, Attendee, Muğla, Turkey, 2012

Design and Synthesis New Heterocyclic Compounds Retaining The 'Core' Quinone Chromophore, Attendee, İstanbul, Turkey, 2012

The Synthesis of Some New Thioquinone Compounds, Attendee, Glasgow, United Kingdom, 2011

The Synthesis of Some New Ethoxy-Thioquinone Compounds, Attendee, Glasgow, United Kingdom, 2011

Bazı Yeni Etoksi-Kloro-Tiyosüstitüe 1,4-Kinonların Sentezi, Attendee, Erzurum, Turkey, 2011

Alkoxy- and Thiosubstituted-1,4-Quinones, Attendee, İstanbul, Turkey, 2007

p-Kloranil ve Tiyollerden Bazı Yeni Tiyokinonların Sentezi, Attendee, Kayseri, Turkey, 2006

Tiyokinonların Eldesi, Attendee, İstanbul, Turkey, 2003

Bazı Halkalı Tiyokinonların Eldesi, Attendee, İstanbul, Turkey, 2003

Bazı Tiyoterlerin Yükseltgenme Reaksiyonları, Attendee, Konya, Turkey, 2002

## Non Academic Experience

Kurtsan İlaçları