#### Assoc. Prof. FATİH TOK

#### **Personal Information**

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Publons / Web Of Science ResearcherID: HQK-7321-2023

ScopusID: 57189214206 Yoksis Researcher ID: 108086



#### **Education Information**

Doctorate, Marmara University, Institute of Health Sciences, Farmasötik Kimya (Dr), Turkey 2014 - 2018

Undergraduate, Marmara University, Faculty of Pharmacy, Turkey 2008 - 2013

#### **Dissertations**

Doctorate, Piridin halkası taşıyan bazı yeni üre ve karbohidrazid türevi bileşiklerin sentezi, yapı aydınlatması ve biyolojik aktivitelerinin incelenmesi, Marmara University, Institute of Health Sciences, Department of Pharmaceutics Chemistry, 2018

### **Research Areas**

Pharmaceutical Chemistry

### **Academic Titles / Tasks**

Associate Professor, Marmara University, Faculty Of Pharmacy, Professional Pharmaceutical Sciences, 2023 - Continues

### Courses

Farmasötik Kimya III, Undergraduate, 2021 - 2022
Farmasötik Kimya III Laboratuvarı, Undergraduate, 2021 - 2022
Farmasötik Kimya II, Undergraduate, 2021 - 2022
Pharmaceutical Chemistry I Practises, Undergraduate, 2019 - 2020
Pharmaceutical Chemistry II Practises, Undergraduate, 2019 - 2020
Medisinal Kimya, Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

I. Synthesis, characterization, biological evaluation and in silico studies of novel 1,3,4-thiadiazole derivatives as aromatase inhibitors

Demiraran S., OSMANİYE D., ÖZKAY Y., KAPLANCIKLI Z. A., Koçyiğit-Kaymakçıoğlu B., TOK F.

Journal of Molecular Structure, vol.1296, 2024 (SCI-Expanded)

II. Synthesis, Characterization, Molecular Docking Studies and Biological Evaluation of Some Novel 3,5-disubstituted-1-phenyl-4,5-dihydro-1H-pyrazole Derivatives

TOK F., Bayrak İ. R., Karakaraman E., Soysal İ., Çakır C., Tuna K., Özgüven S. Y., Sıcak Y., Öztürk M., Koçyiğit-Kaymakçıoğlu B.

Current Organic Chemistry, vol.28, no.3, pp.230-240, 2024 (SCI-Expanded)

III. Synthesis of Phthalimide Derivatives and Their Insecticidal Activity against Caribbean Fruit Fly, Anastrepha suspensa (Loew)

TOK F., Yang X., Tabanca N., Koçyiğit-Kaymakçıoğlu B.

Biomolecules, vol.13, no.2, 2023 (SCI-Expanded)

IV. Synthesis, biological evaluation and molecular docking studies of novel 1,3,4-thiadiazoles as potential anticancer agents and human carbonic anhydrase inhibitors

KARAKUŞ S., Başçıl E., TOK F., Erdoğan Ö., Çevik Ö., Başoğlu F.

Molecular Diversity, 2023 (SCI-Expanded)

V. Recent Advances in the Microwave and Ultrasound-assisted Synthesis of Pyrazole Scaffolds TOK F., Koçyiğit-Kaymakçıoğlu B.

Current Organic Chemistry, vol.27, no.12, pp.1053-1071, 2023 (SCI-Expanded)

VI. Design, synthesis, biological activity evaluation and in silico studies of new nicotinohydrazide derivatives as multi-targeted inhibitors for Alzheimer's disease

TOK F., SAĞLIK B. N., ÖZKAY Y., KAPLANCIKLI Z. A., KAYMAKÇIOĞLU B.

JOURNAL OF MOLECULAR STRUCTURE, vol.1265, 2022 (SCI-Expanded)

VII. N-Substituted Arylidene-3-(Methylsulfonyl)-2-Oxoimidazolidine-1-Carbohydrazide as Cholinesterase Inhibitors: Design, Synthesis, and Molecular Docking Study

TOK F., SAĞLIK B. N., ÖZKAY Y., KAPLANCIKLI Z. A., KAYMAKÇIOĞLU B.

CHEMISTRY & BIODIVERSITY, vol.19, no.8, 2022 (SCI-Expanded)

VIII. Synthesis, Biological Evaluation and in Silico Studies of New Pyrazoline Derivatives Bearing Benzo[d]thiazol-2(3H)-one Moiety as Potential Urease Inhibitors

TOK F., BALTAŞ N., TATAR YILMAZ G., KAYMAKÇIOĞLU B.

CHEMISTRY & BIODIVERSITY, vol.19, no.3, 2022 (SCI-Expanded)

IX. Synthesis of some novel 1,3,4-oxadiazole derivatives and evaluation of their antimicrobial activity TOK F., Kaya M., KARACA GENÇER H., KAYMAKÇIOĞLU B.

SYNTHETIC COMMUNICATIONS, vol.52, pp.926-935, 2022 (SCI-Expanded)

X. Design, Synthesis, In Silico ADMET Studies and Anticancer Activity of Some New Pyrazoline and Benzodioxole Derivatives

TOK F., ERDOĞAN Ö., ÇEVİK Ö., KAYMAKÇIOĞLU B.

ACTA CHIMICA SLOVENICA, vol.69, no.2, pp.293-303, 2022 (SCI-Expanded)

XI. Synthesis of novel thiosemicarbazone derivatives as antidiabetic agent with enzyme kinetic studies and antioxidant activity

TOK F., KÜÇÜKAL B., BALTAŞ N., Yilmaz G. T., KAYMAKÇIOĞLU B.

PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.197, no.12, pp.1284-1294, 2022 (SCI-Expanded)

XII. Induction of Divergent Cell Death Pathways by Urea and Carbohydrazide Derivatives

YILMAZ S., TOK F., Atalay-Sahar E., KAYMAKÇIOĞLU B., BALLAR KIRMIZIBAYRAK P.

ANTI-CANCER AGENTS IN MEDICINAL CHEMISTRY, vol.22, no.9, pp.1761-1768, 2022 (SCI-Expanded)

XIII. Synthesis of new hydrazone derivatives and evaluation of their monoamine oxidase inhibitory activity

TOK F., SAĞLIK B. N., ÖZKAY Y., ILGIN S., KAPLANCIKLI Z. A., KAYMAKÇIOĞLU B.

BIOORGANIC CHEMISTRY, vol.114, 2021 (SCI-Expanded)

XIV. Novel 2,5-disubstituted-1,3,4-oxadiazole derivatives as MAO-B inhibitors: Synthesis, biological evaluation and molecular modeling studies

TOK F., Ugras Z., SAĞLIK B. N., ÖZKAY Y., KAPLANCIKLI Z. A., KAYMAKÇIOĞLU B.

BIOORGANIC CHEMISTRY, vol.112, 2021 (SCI-Expanded)

XV. Synthesis, anticancer evaluation and in silico ADMET studies on urea/thiourea derivatives from gabapentin

TÜRK S., TOK F., Erdogan O., Cevik O., Tok T. T., KAYMAKÇIOĞLU B., KARAKUŞ S.

PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.196, no.4, pp.382-388, 2020 (SCI-Expanded)

XVI. Design, synthesis and biological evaluation of some new 2-Pyrazoline derivatives as potential anticancer agents

TOK F., ABAS B. İ., ÇEVİK Ö., KAYMAKÇIOĞLU B.

BIOORGANIC CHEMISTRY, vol.102, 2020 (SCI-Expanded)

XVII. Design, Synthesis and Biological Screening of Novel 1,5-Diphenyl-3-(4-(trifluoromethyl)phenyl)-2-pyrazoline Derivatives

TOK F., KAYMAKÇIOĞLU B.

ACTA CHIMICA SLOVENICA, vol.67, no.4, pp.1139-1147, 2020 (SCI-Expanded)

XVIII. Synthesis and biological evaluation of new pyrazolone Schiff bases as monoamine oxidase and cholinesterase inhibitors

TOK F., Kocyigit-Kaymakcioglu B., Saglik B. N., Levent S., Ozkay Y., Kaplancikli Z. A.

BIOORGANIC CHEMISTRY, vol.84, pp.41-50, 2019 (SCI-Expanded)

- XIX. Synthesis and Anticancer Activity of New Hydrazide-hydrazoncs and Their Pd(II) Complexes
  Kocyigit-Kaymakcioglu B., Yazici S. S., TOK F., Dikmen M., Engur S., Oruc-Emre E. E., İYİDOĞAN A.
  LETTERS IN DRUG DESIGN & DISCOVERY, vol.16, no.5, pp.522-532, 2019 (SCI-Expanded)
- XX. Design, synthesis, biological evaluation and molecular docking of novel molecules to PARP-1 enzyme TOK F., Kocyigit-Kaumakcioglu B., İLHAN R., YILMAZ S., Ballar-Kirmizibayrak P., Taskim-Tok T. TURKISH JOURNAL OF CHEMISTRY, vol.43, no.5, pp.1290-1315, 2019 (SCI-Expanded)
- XXI. SYNTHESIS AND BIOLOGICAL EVALUATION OF SOME NEW HYDRAZONE DERIVATIVES BEARING PYRIMIDINE RING AS ANALGESIC AND ANTI-INFLAMMATORY AGENTS

  AKDAĞ K., ÜNAL G., TOK F., ARICIOĞLU F., TEMEL H. E., Kocyigit-Kaymakcioglu B.

ACTA POLONIAE PHARMACEUTICA, vol.75, no.5, pp.1147-1159, 2018 (SCI-Expanded)

XXII. Synthesis and structure-activity relationships of carbohydrazides and 1,3,4-oxadiazole derivatives bearing an imidazolidine moiety against the yellow fever and dengue vector, Aedes aegypti

TOK F., Kocyigit-Kaymakcioglu B., Tabanca N., Estep A. S., Gross A. D., Geldenhuys W. J., Becnel J. J., Bloomquist J. R. PEST MANAGEMENT SCIENCE, vol.74, no.2, pp.413-421, 2018 (SCI-Expanded)

XXIII. Synthesis, anticancer activity and ADMET studies of N-(5-methyl-1,3,4-thiadiazol-2-yl)-4-[(3-substituted)ureido/thioureido| benzenesulfonamide derivatives

Karakus S., Tok F., Tuerk S., Salva E., Tatar G., Taskin-Tok T., Kocyigit-Kaymakcioglu B.

PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, vol.193, no.8, pp.528-534, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. Synthesis, characterization and biological evaluation of some novel sulfonylurea derivatives TOK F., Cihangir H., Şan K., Çakir C., Tuna K., Sicak Y., Öztürk M., Koçyiğit-Kaymakçioğlu B. Journal of Research in Pharmacy, vol.27, no.6, pp.2416-2424, 2023 (ESCI)
- II. Synthesis, Characterization and Biological Evaluation of Novel Thiourea Derivatives TOK F., Cakir C., Cam D., Kirpat M. M., SICAK Y.
  CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.12, no.2, pp.533-540, 2022 (ESCI)
- III. Synthesis of novel pyrazoline derivatives and evaluation of their antimicrobial activity

TOK F., Doğan M. O., GÜRBÜZ B., Koçyiğit-Kaymakçioğlu B.

Journal of Research in Pharmacy, vol.26, no.5, pp.1453-1460, 2022 (ESCI)

IV. Synthesis and anticancer activity of new carbohydrazide derivatives bearing furan moiety TOK F., Kaya Tilki E., DİKMEN M., KAYMAKÇIOĞLU B.

JOURNAL OF RESEARCH IN PHARMACY, vol.26, no.1, pp.13-19, 2022 (ESCI)

V. Therapeutic Drug Monitoring in Pediatric Patients Treated with Anti-Tuberculosis Medications by High Performance Liquid Chromatography

Okuyan B., Tok F., Karakuş S., Dalgiç N., Çakır E., Midyat L., Koçyiğit-Kaymakçioğlu B., Berk U. E., İzzettin F. V., Rollas S., et al.

Journal of Research in Pharmacy, vol.26, no.6, pp.1907-1914, 2022 (ESCI)

VI. Design, Synthesis and Evaluation of the Biological Activities of Some New Carbohydrazide and Urea Derivatives

TOK F., İLHAN R., Gunal S., BALLAR KIRMIZIBAYRAK P., Kocyigit-Kaymakcioglu B.

TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.15, no.3, pp.304-308, 2018 (ESCI)

VII. Design, synthesis and evaluation of biological activities of some new carbohydrazide and urea derivatives

TOK F., İLHAN R., GUNAL S., BALLAR KIRMIZIBAYRAK P., KAYMAKÇIOĞLU B.

TURKISH JOURNAL OF PHARMACEUTICAL SCIENCES, vol.15, no.3, pp.304-308, 2018 (Scopus)

VIII. Some N-(5-methyl-1,3,4-thiadiazol-2-yl)-4-[(3-substituted)ureido/thioureido]benzenesulfonamides as carbonic anhydrase I and II Inhibitors

TÜRK S., TOK F., Celik H., KARAKUŞ S., NADAROĞLU H., Kocyigit-Kaymakcioglu B., Kucukoglu K.

MARMARA PHARMACEUTICAL JOURNAL, vol.21, no.1, pp.89-95, 2017 (ESCI)

IX. Antiproliferative activity of some tautomeric hydrazones derived from chalcones

TOK F., BEYHAN N., ERZURUMLU Y., İLHAN R., Ballar P., Kocyigit-Kaymakcioglu B.

MARMARA PHARMACEUTICAL JOURNAL, vol.20, no.2, pp.157-163, 2016 (ESCI)

X. A new approach in cancer treatment: poly (ADP-ribose) polymerase-1 inhibitors TOK F., Kocyigit-Kaymakcioglu B.

CLINICAL AND EXPERIMENTAL HEALTH SCIENCES, vol.5, no.1, pp.41-52, 2015 (ESCI)

#### **Books & Book Chapters**

 $I. \quad \textbf{Poly (ADP-Ribose) Polymerases as New Drug Targets in Cancer Treatment}$ 

TOK F., KAYMAKÇIOĞLU B.

in: Frontiers in Anti-cancer Drug Discovery, Rahman Atta-ur, Choudhary MI, Editor, Bentham books, pp.164-195, 2021

## Refereed Congress / Symposium Publications in Proceedings

 $I. \quad \mbox{Synthesis and In Silico ADME Studies of New Phthalimide Derivatives}$ 

TOK F.

5th International Congress Of Multidisciplinary Studies In Medical Sciences, Ankara, Turkey, 23 - 25 September 2022

II. Synthesis and Antimicrobial Evaluation of New Pyrazoline Derivatives.

Tok F., Gürbüz B.

The Sixth International Symposium on Pharmaceutical and Biomedical Sciences (ISPBS-6), Gaziantep, Turkey, 26 - 28 May 2022, pp.61

III. Synthesis of Novel Pyrazoline Derivatives Carrying Piperidine Ring and Investigation of Their Anticancer Activities

UĞRAŞ Z., TOK F., ŞALVA E., KAYMAKÇIOĞLU B.

10th International Drug Chemistry Conference: Pharmaceutical Active Substance Design, Synthesis, Production and Standardization, Antalya, Turkey, 10 - 13 March 2022, pp.43

IV. Synthesis of New Thiosemicarbazone Derivatives and Evaluation of Their Cytotoxic Activity TOK F., BOZKURT N. M., KARABOĞA ARSLAN A. K.

Second International Congress on Biological and Health Sciences, Turkey, 24 - 27 February 2022, pp.95

V. Synthesis of New Hydrazone Derivatives bearing Imidazolidine Moiety as Monoamine Oxidase Inhibitors

TOK F., SAĞLIK B. N.

9th World Conference on Pharmaceutical Science and Drug Manufacturing, Dubai, United Arab Emirates, 1 - 02 December 2021, pp.43-44

VI. A new series of 1,3,4-oxadiazole derivatives: Synthesis and evaluation of antimicrobial activity TOK F., ÖZARDA M. G.

Union Of Thrace Universities 4th International Health Sciences Congress, Kırklareli, Turkey, 11 - 12 November 2021, pp.185

VII. SYNTHESIS OF NEW PYRAZOLINE DERIVATIVES AND THEIR ANTICANCER ACTIVITIES TOK F., ÇEVİK Ö.

13th International Symposium on Pharmaceutical Sciences (ISOPS), Ankara, Turkey, 22 - 25 June 2021, pp.78-80

VIII. Zika virüsüne karşı geliştirilen yeni tedavi yaklaşımları

Güvenkaya Ş., TOK F., KAYMAKÇIOĞLU B.

2. Ulusal Marmara Eczacılık Kongresi, İstanbul, Turkey, 14 November 2018, pp.143

IX. Pirazolon halkasından hareketle sentezlenen çeşitli Schiff bazları üzerinde saflaştırma çalışmaları Yılmaz S., TOK F., KAYMAKÇIOĞLU B.

2. Ulusal Marmara Eczacılık Kongresi, İstanbul, Turkey, 14 November 2018, pp.155

X. Kanserle tedavisinde yeni bir yaklaşım olan PARP-1 inhibitörlerinin tasarımı ve sentezi TOK F., KAYMAKÇIOĞLU B.

2. Ulusal Marmara Eczacılık Kongresi, Turkey, 14 - 16 November 2018

XI. Pirazolon halkası taşıyan bazı Schiff bazlarının biyolojik etkilerinin incelenmesi UĞRAŞ Z., TOK F., KAYMAKÇIOĞLU B.

2. Ulusal Marmara Eczacılık Kongresi, İstanbul, Turkey, 14 November 2018, pp.230

XII. Synthesis, characterization and anti-biofilm activity studies onnovel urea/thiourea derivatives TÜRK S., TOK F., ULUSOY S., KARAKUŞ S., KAYMAKÇIOĞLU B., TINAZ G.

12th International Symposium on Pharmaceutical Sciences-ISOPS 2018, 26 - 29 June 2018

XIII. Synthesis and biological evaluation of new schiffbases from antipyrine derivatives PİRİNÇCİ Y., TOK F., KAYMAKÇIOĞLU B.

54th International Conference on Medicinal Chemistry-RICT 2018, 4 - 06 July 2018

XIV. Design of potent PARP-1 inhibitors through molecular modeling techniques KAYMAKÇIOĞLU B., TOK F., TAŞKIN TOK T.

 $54 th\ International\ Conference\ on\ Medicinal\ Chemistry-RICT\ 2018, 4-06\ July\ 2018$ 

XV. Discovery of novel urea and carbohydrazide derivatives as potent PARP-1 inhibitors TOK F., KAYMAKÇIOĞLU B.

54th International Conference on Medicinal Chemistry-RICT 2018, 4 - 06 July 2018

XVI. Design, synthesis and biological evaluation of nicotinate derivatives for cancer therapy
 TOK F., KAYMAKÇIOĞLU B., GUNAL S., İLHAN R., BALLAR KIRMIZIBAYRAK P.
 12th International Symposium on Pharmaceutical Sciences-ISOPS 2018, 26 - 29 June 2018

XVII. Synthesis of novel schiff base derivatives and evaluation of their monoamine oxidase inhibitory activity

PİRİNÇCİ Y., TOK F., KAYMAKÇIOĞLU B., LEVENT S., KAPLANCIKLI Z. A.

12th International Symposium on Pharmaceutical Sciences-ISOPS 2018, 26 - 29 June 2018

XVIII. Synthesis of novel antipyrine derivatives as cholinesteraseinhibitors
TOK F., KAYMAKÇIOĞLU B., SAĞLIK B. N., ÖZKAY Y.

12th International Symposium on Pharmaceutical Sciences-ISOPS 2018, 26 - 29 June 2018

XIX. CYTOTOXICITY OF SOME NEW CARBOHYDRAZIDE AND UREADERIVATIVES BEARING PYRIDINE RING TOK F., İLHAN R., GUNAL S., BALLAR KIRMIZIBAYRAK P., KAYMAKÇIOĞLU B.

2th International Gazi Pharma Symposium Series, 11 - 13 October 2017

XX. SYNTHESIS AND STRUCTURE-ACTIVITY RELATIONSHIPS OF CARBOHYDRAZIDES AND 1,3,4-OXADIAZOLE DERIVATIVESBEARING IMIDAZOLIDINE MOIETY AGAINST THE YELLOWFEVER AND DENGUE VECTOR, AEDES AEGYPTI

TOK F., KAYMAKÇIOĞLU B., TABANCA N., ESTEP A., GROSS A., GELDENHUYS W., BECNEL J., BLOOMQUIST J. 2th International Gazi Pharma Symposium Series, 11 - 13 October 2017

XXI. Synthesis, characterization and antimicrobial activity evaluation of new some amide derivatives from isonipecoticacid

SEV M. P., YILDIZ S., DÜZENLİ G., TOK F., KAYMAKÇIOĞLU B.

3th International Convention of Pharmaceuticals and Pharmacies, 26 - 29 April 2017

XXII. 5 Kloropirazin halkası taşıyan bazı yeni 1,2,4-triazol ve 1,3,4-tiyadiazol türevleriüzerinde sentez çalışmaları

SEVEN S., ÇINAR G. İ., TOK F., KAYMAKÇIOĞLU B.

I.ULUSAL MARMARA ECZACILIK KONGRESİ, Turkey, 3 - 05 November 2016

XXIII. Synthesis and Characterization of Some New Hydrazone Derivatives as Potential Anticancer Agent TOK F., Erdoğan B. S., Yıldız S., KAYMAKÇIOĞLU B.

2.Uluslararası İlaç ve Eczacılık Kongresi, İstanbul, Turkey, 27 - 29 November 2015

XXIV. Synthesis and characterization of some new hydrazone derivatives as potential anticancer agents TOK F., YILDIZ S., BUSE E., KAYMAKÇIOĞLU B.

2nd International Convention of Pharmaceuticals and Pharmacies, 27 - 29 November 2015

XXV. SYNTHESIS and EVALUATION of SOME SULFONAMIDE DERIVATIVES CARRYING THIOUREA MOIETY AS POTENTIAL INHIBITORS of HUMAN CARBONIC ANHYDRASE ISOENZYMES hCA I and hCA II TOK F., TÜRK S., ÇELİK H., KARAKUŞ S., NADAROĞLU H., KÜÇÜKOĞLU K., KAYMAKÇIOĞLU B. International Multidisciplinary Symposium on Drug Research & Development, Eskişehir, Turkey, 15 - 17 October 2015

XXVI. Synl hcsis Of New IJreas l erived From Sulfonamides As Potential Anticancer Agents
TÜRK S., TOK F., ÇELİK H., KARAKUŞ S., NADAROĞLU H., KÜÇÜKOĞLU K., KAYMAKÇIOĞLU B.
3.rd International BAU-DRUG Design Congress, İstanbul, Turkey, 1 - 03 October 2015

XXVII. Synthesis of new ureas derived from sulfonamides as potential anticancer agents
TÜRK S., TOK F., ÇELİK H., KARAKUŞ S., NADAROĞLU H., KAYMAKÇIOĞLU B.
3rd International Bau-Drug Design Congress, 1 - 03 October 2015

XXVIII. Anticancer activity of some amide derivatives bearing hydrazide moiety

TOK F., KAYA E., DİKMEN M., KAYMAKÇIOĞLU B.

6th BBBB CONFERENCE ON PHARMACEUTICAL SCIENCES STRATEGIES TO IMPROVE THE QUALİTY AND
PERFORMANCE OF MODERN DRUG DELIVERY SYSTEMS, 10 - 12 September 2015

Anticancer activity of some tautomeric hydrazones derived from chalcones
 TOK F., İLHAN R., BALLAR KIRMIZIBAYRAK P., KAYMAKÇIOĞLU B.
 6th BBBB CONFERENCE ON PHARMACEUTICAL SCIENCES STRATEGIES TO IMPROVE THE QUALITY AND
 PERFORMANCE OF MODERN DRUG DELIVERY SYSTEMS, Helsinki, Finland, 10 - 12 September 2015

XXX. Synthesis and cytotoxic evaluation of substituted urea derivatives derivated from gabapentin
TÜRK S., TOK F., KAYMAKÇIOĞLU B., KARAKUŞ S., TURAN S., JÜLİDE A.
Fourth International Meeting on Pharmacy& Pharmaceutical Sciences, İstanbul, Turkey, 18 - 20 September 2014

#### **Metrics**

Publication: 66
Citation (WoS): 172
Citation (Scopus): 193

H-Index (WoS): 8 H-Index (Scopus): 7

# **Scholarships**

2211-A Yurt içi doktora bursu, TUBITAK, 2014 - 2018

# **Awards**

Tok F., 2211-A Yurt içi doktora bursu, Tübitak, March 2014 Tok F., Fakülte Dönem Birinciliği, Marmara Üniversitesi, June 2013