

## Personal Information

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## International Researcher IDs

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Publons / Web Of Science ResearcherID: AAB-2646-2022

ScopusID: 56010176100

Yoksis Researcher ID: 168640

## Education Information

Doctorate, Erciyes University, Fen Fakültesi, Biyoloji, Turkey 2012 - 2017

Postgraduate, Erciyes University, Fen Fakültesi, Biyoloji, Turkey 2009 - 2012

Undergraduate, Erciyes University, Fen Edebiyat Fakültesi, Biyoloji, Turkey 2005 - 2009

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, CuO, ZnO ve TiO<sub>2</sub> NANOPARTÜKÜLLERİNİN Mentha aquatica L. BİTKİSİNİN YAPRAK EKSTRAKTI KULLANARAK BİYOSENTEZİ , KAREKTERİZASYONU VE GENOTOKSİK ETKİLERİ, Erciyes Üniversitesi, Fen Fakültesi, Biyoloji/Hidrobiyoloji, 2017

Postgraduate, Cr(III) ve Cr(VI) Maruziyetinde Ceratophyllum demersum L.'nin Biyolojik Cevabı: Konsantrasyon ve Uygulama Periyodunun Etkisi, Erciyes Üniversitesi, Biyoloji, 2012

## Research Areas

Life Sciences, Environmental Biology, Environmental Pollution, Hydrobiology, Fresh-Water Biology, Natural Sciences

## Academic Titles / Tasks

Associate Professor, Erciyes University, Veteriner Fakültesi, Klinik Öncesi Bilimler, 2022 - Continues

Assistant Professor, Erciyes University, Veteriner Fakültesi, Klinik Öncesi Bilimler, 2018 - 2022

Assistant Professor, Erciyes University, Veteriner Fakültesi, Klinik Öncesi Bilimler, 2017 - 2018

Research Assistant, Erciyes University, Fen Fakültesi, Biyoloji, 2011 - 2017

## Academic and Administrative Experience

Fakülte Kurulu Üyesi, Erciyes University, Veteriner Fakültesi, Klinik Öncesi Bilimler, 2021 - Continues

Erciyes University, 2019 - Continues

Erciyes University, 2021 - 2023

## Courses

Su Ürünleri Yetiştiriciliği, Undergraduate, 2018 - 2019

Intern Uygulamaları, Undergraduate, 2018 - 2019

Ekoloji Uygulamaları, Undergraduate, 2017 - 2018

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

1. Synthesizing hybrid copper phosphate (Cu<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>) nanoflowers using Cu<sup>+2</sup> and shed snakeskin: antioxidant, antibacterial, anticancer, guaiacol, anionic, and cationic dye degradation properties

Sinmez Ç. Ç., Koca F. D.

JOURNAL OF BIOLOGICAL ENGINEERING, vol.1, pp.1, 2024 (SCI-Expanded)

- II. **Antioxidant and pH-dependent cationic and anionic dye degradation activities of optimum synthesized organic@inorganic Cu hybrid nanoflowers**  
Koca F. D., Muhy H. M., Halıcı M. G.  
INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, pp.1, 2024 (SCI-Expanded)
- III. **Gigartina skottsbergii Setchell & N.L.Gardner (Rhodophyta) incorporated organic@inorganic hybrid Cu<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub> nanoflowers with an intrinsic antioxidant and catalytic activities**  
Halıcı M. G., Muhy H. M., Koca F. D.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.1, no.1, pp.1-11, 2024 (SCI-Expanded)
- IV. **Green Synthesis of NiFe<sub>2</sub>O<sub>4</sub> Nanocomposites and Evaluation of their Photocatalytic Activities**  
Koca F. D., Şahin B.  
Inorganic and Nano-Metal Chemistry, vol.1, pp.1-11, 2024 (SCI-Expanded)
- V. **Catalytic and Antioxidant Activity of Desmarestia menziesii Algae Extract Based Organic@Inorganic Hybrid Nanoflowers**  
KOCA F. D., Muhy H. M., HALICI M. G.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.34, no.3, pp.1282-1292, 2024 (SCI-Expanded)
- VI. **Bio-synthesis of graphene oxide decorated silver nanocomposites by using Usnea antarctica and Umbilicaria antarctica from Antarctic Peninsula and evaluation of their antimicrobial activities**  
Koca F. D., Demirbaş A., Halıcı M. G., Öçsoy İ.  
Rendiconti Lincei. Scienze Fisiche e Naturali, vol.11, pp.1-10, 2024 (SCI-Expanded)
- VII. **Catalytic and antimicrobial activities of cucumber leaf extract-based organic@inorganic hybrid nanoflowers through Fenton-like reaction**  
ERDEM T., KOCA F. D.  
RENDICONTE LINCIEI-SCIENZE FISICHE E NATURALI, vol.34, pp.1255-1261, 2023 (SCI-Expanded)
- VIII. **Synthesis of hybrid Cu nanoflowers by using *Tornabea* lichen extract, and evaluation of their dye degradation, and antioxidant activities**  
KOCA F. D., Muhy H. M., HALICI M. G.  
SOUTH AFRICAN JOURNAL OF BOTANY, vol.160, pp.394-401, 2023 (SCI-Expanded)
- IX. **Formation of *Umbilicaria decussata* (Antarctic and Turkey) Extracts Based Nanoflowers with Their Peroxidase Mimic, Dye Degradation and Antimicrobial Properties**  
DEMİRBAŞ A., KARSLI B., Dadi S., ARABACI N., KOCA F. D., HALICI M. G., ÖÇSOY İ.  
CHEMISTRY & BIODIVERSITY, vol.20, no.8, 2023 (SCI-Expanded)
- X. **Synthesis of hybrid nanoflowers using extract of *Ascoseira mirabilis*, a large brown parenchymatous macroalga endemic to the Antarctic Ocean, as the organic component and evaluation of their antimicrobial, catalytic, and antioxidant activities**  
Koca F. D., Muhy H. M., Halıcı M. G., Gözcelioğlu B., Konuklugil B.  
APPLIED NANOSCIENCE, vol.13, pp.4787-4794, 2023 (SCI-Expanded)
- XI. ***Usnea antarctica* (James Ross Island, Antarctica) and *Usnea subfloridana* (Uludag, Turkey) Incorporated Hybrid Nanoflowers with Their Intrinsic Catalytic and Antimicrobial Activities**  
DEMİRBAŞ A., KARSLI B., Dadi S., KOCA F. D., HALICI M. G., ÖÇSOY İ.  
CHEMISTRYSELECT, vol.7, no.43, 2022 (SCI-Expanded)
- XII. **Green Synthesis of Ag-ZnO Nanocomposites by Using *Usnea florida* and *Pseudevernia furfuracea* lichen Extracts and Evaluation of Their Neurotoxic Effects**  
Koca F. D., Halıcı M. G., Ünal G., Işık Y.  
INORGANIC AND NANO-METAL CHEMISTRY, vol.1, pp.1, 2022 (SCI-Expanded)
- XIII. **Synthesis of Cherry Stalk Extract Based Organic@Inorganic Hybrid Nanoflowers as a Novel Fenton Reagent: Evaluation of Their Antioxidant, Catalytic, and Antimicrobial Activities**  
Güven O. C., Kar M., Koca F. D.  
JOURNAL OF INORGANIC AND ORGANOMETALLIC POLYMERS AND MATERIALS, vol.1, pp.1026-1032, 2022 (SCI-Expanded)
- XIV. **Preparation of thymol incorporated organic-inorganic hybrid nanoflowers as a novel fenton agent with intrinsic catalytic and antimicrobial activities**  
Koca F. D.  
INORGANIC AND NANO-METAL CHEMISTRY, vol.52, no.2, pp.322-327, 2022 (SCI-Expanded)
- XV. **Peroxidase-like activity and antimicrobial properties of curcumin-inorganic hybrid nanostructure**  
Koca F. D., Yılmaz D. D., Onmaz N. E., Öçsoy İ.  
Saudi Journal of Biological Sciences, vol.27, no.10, pp.2574-2579, 2020 (SCI-Expanded)
- XVI. **Green synthesis of allicin based hybrid nanoflowers with evaluation of their catalytic and antimicrobial activities**  
Koca F. D., Yılmaz D. D., Onmaz N. E., Yılmaz E., Öçsoy İ.  
BIOTECHNOLOGY LETTERS, vol.42, no.9, pp.1683-1690, 2020 (SCI-Expanded)
- XVII. **Genotoxic and cytotoxic activity of green synthesized TiO<sub>2</sub> nanoparticles**  
Koca F. D., Duman F.  
APPLIED NANOSCIENCE, vol.9, no.5, pp.815-823, 2019 (SCI-Expanded)
- XVIII. **How titanium dioxide and zinc oxide nanoparticles do affect soil microorganism activity?**  
KIZILDAĞ N., CENKSEVEN Ş., KOCA F. D., Saglikler H. A., DARICI C.  
European Journal of Soil Biology, vol.91, pp.18-24, 2019 (SCI-Expanded)
- XIX. **Lichen Based Synthesis of Zinc Oxide Nanoparticles and Evaluation of its Neurotoxic Effects on Human Neuroblastoma Cells**  
Koca F. D., Ünal G., Halıcı M. G.  
JOURNAL OF NANO RESEARCH, vol.59, pp.15-24, 2019 (SCI-Expanded)
- XX. **Comparison of phytotoxic effects of bio-synthesised copper oxide nanoparticle and ionic copper on *Elodea canadensis***  
KOCA F. D., Yılmaz D., DUMAN F., ÖÇSOY İ.  
CHEMISTRY AND ECOLOGY, vol.34, no.9, pp.839-853, 2018 (SCI-Expanded)
- XXI. **DETERMINATION OF HEAVY METAL ACCUMULATION IN WATER, SEDIMENT AND SMARTWEED (*POLYGONUM AMPHIBIUM*) FROM SARIMSAKLI DAM LAKE (KAYSERI-TURKEY)**  
KOCA F. D., KIZILDAĞ N., DARICI C., DUMAN F.

- FRESENIUS ENVIRONMENTAL BULLETIN, vol.25, no.5, pp.1373-1382, 2016 (SCI-Expanded)
- XXII. **Temporal variation of heavy metal accumulation and translocation characteristics of narrow-leaved cattail (*Typha angustifolia* L.)**  
DUMAN F., UREY E., KOCA F. D.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.22, no.22, pp.17886-17896, 2015 (SCI-Expanded)
- XXIII. **SINGLE AND COMBINED EFFECTS OF EXPOSURE CONCENTRATION AND DURATION ON BIOLOGICAL RESPONSES OF CERATOPHYLLUM DEMERSUM L. EXPOSED TO Cr SPECIES**  
DUMAN F., KOCA F. D.  
INTERNATIONAL JOURNAL OF PHYTOREMEDIATION, vol.16, no.12, pp.1192-1208, 2014 (SCI-Expanded)
- XXIV. **Antagonist Effects of Sodium Chloride on the Biological Responses of an Aquatic Plant (*Ceratophyllum demersum* L.) Exposed to Hexavalent Chromium**  
DUMAN F., KOCA F. D., ŞAHAN S.  
WATER AIR AND SOIL POLLUTION, vol.225, no.2, 2014 (SCI-Expanded)
- XXV. **Single and combined effects of exposure concentration and duration on chromium phytoaccumulation.**  
duman f., KOCA F. D., AKSOY A.  
CURRENT OPINION IN BIOTECHNOLOGY, 2011 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Evaluation of the Effect of the Size of Ramalina fraxinea Based Ag NPs on the Antimicrobial Activity**  
Alfawadı A. M. S., HALICI M. G., KOCA F. D.  
Erciyes Üniversitesi Veteriner Fakültesi Dergisi, vol.20, 2023 (Peer-Reviewed Journal)
- II. **Characterization and Antioxidant Activity of Platinum Nanoparticles Synthesized by Using Cetraria Islandica Extract**  
MUHY H. M., KOCA F. D., HALICI M. G.  
Al-Mustansiriyah Journal of Science, vol.33, 2023 (Peer-Reviewed Journal)
- III. **Characterization of green synthesized nanoflowers using corn silk extract obtained in different solvents and pH media and comparative study of the effects of morphologies on catalytic, antioxidant, and antimicrobial activities**  
Bakar R., Kar M., Koca F. D., Gökdemir G.  
APPLIED NANOSCIENCE, vol.13, pp.4631-4640, 2023 (Peer-Reviewed Journal)
- IV. **Çinko Nanopartiküllerinin (ZnO NP) Biyosentezi, Karakterizasyonu ve Anti- Bakteriye Etkisinin İncelenmesi**  
Günay K., Leblebici Z., Koca F. D.  
Nevşehir Bilim ve Teknoloji Dergisi , vol.10, no.1, pp.56-66, 2021 (Peer-Reviewed Journal)
- V. **Biosynthesis of Silver@Graphene Oxide Nanocomposite and Determination of Its Antimicrobial Activity**  
Koca F. D.  
Erciyes Üniversitesi Veteriner Fakültesi DergisiGümüş@Grafen Oksit Nanokompozitin Biyolojik Sentezi ve Antimikrobiyal Aktivitesinin Belirlenmesi, vol.17, no.2, pp.126-130, 2020 (Peer-Reviewed Journal)
- VI. **Nanopartikül Selenyumun Hayvan Beslemede Kullanımı**  
Ülger İ., Koca F. D., Büyükkılıç Beyzi S., Kaliber M.  
Erciyes Tarım ve Hayvan Bilimleri Dergisi, vol.2, no.3, pp.1-4, 2020 (Peer-Reviewed Journal)
- VII. **Antibacterial Activity of Biologically Synthesized Silver and Zinc Nanoparticles Using Allcemilla vulgaris (Layd's Mantle) Leaf Extract**  
Demirezen Yılmaz D., Koca F. D., Ertuş Onmaz N.  
Asian Journal of Applied Chemistry Research, vol.2, pp.1-11, 2019 (Peer-Reviewed Journal)
- VIII. **Comparison of antimicrobial activity of bio-synthesized silver and zinc oxide nanopar-ticles using Centaurea cyanus L. (Cornflower) Flower extract**  
DEMİREZEN YILMAZ D., KOCA F. D., ERTAŞ ONMAZ N.  
Chemistry Research Journal, vol.3, no.5, pp.53-59, 2018 (Peer-Reviewed Journal)
- IX. **APPLICATIONS FOR PETROLEUM REMOVAL FROM WATER USING SUNFLOWER STALK LOADED BY BIO-SYNTHESIZED IRON (FeO) NANOPARTICLE**  
Yılmaz Ş., DEMİREZEN YILMAZ D., AKSU DEMİREZEN D., KOCA F. D.  
International Journal of Advances in Science, Engineering and Technology, vol.6, pp.38-41, 2018 (Peer-Reviewed Journal)
- X. **Green Synthesized Zinc Oxide Nanoparticle Using European cranberry Bush for Enhanced Antimicrobial and Anticancer Effect in Breast Cancer**  
Demirezen Yılmaz D., Sümer Ercan F., Yalçın Azarkan S., Koca F. D.  
International Journal of Advances in Science Engineering and Technology, vol.6, no.2, pp.42-46, 2018 (Peer-Reviewed Journal)
- XI. **Green\_Synthesized\_Zinc\_Oxide\_Nanoparticle\_using\_European\_Cranberry\_Bush\_for\_Enhanced\_Antimicrobial\_and\_Anticancer\_Effect\_in\_Breast\_Cancer**  
DEMİREZEN YILMAZ D., ERCAN F., YALÇIN AZARKAN S., KOCA F. D.  
International Journal of Advances in Science, Engineering and Technology, vol.6, pp.42-46, 2018 (Peer-Reviewed Journal)
- XII. **Krom Cr 6 A Maruz Bırakılmış Ceratophyllum Demersum L Un Biyolojik Cevabı**  
DUMAN F., ŞAHAN S., CEYLAN A., KOCA F. D.  
SDU Journal of Science, 2010 (Peer-Reviewed Journal)
- XIII. **Biological Responses of Ceratophyllum demersum L. Exposed to Chromium (Cr6)**  
DUMAN F., ŞAHAN S., CEYLAN A., KOCA F. D.  
SDU Journal of Science, vol.5, no.2, pp.163-171, 2010 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **EFFECT OF ZINC OXIDE NANOPARTICLE ON OXIDATIVE STRESS, CYTOKINE, CASPASE-3 AND IMMUNITY IN RATS**  
Şentürk M., Eren M., Koca F. D., Bozбек Ç. K., Develi N.  
3. Uluslararası Veteriner Biyokimya ve Klinik Biyokimya Kongresi, Van, Turkey, 23 - 25 May 2024, pp.39-40

- II. **Culex pipiens Linnaeus 1758 Larvalarına Karşı At Kestanesi (Aesculus hippocastanum) Yaprak Ekstresinden Sentezlenen Gümüş Nanopartiküllerinin Larvisit Etkinliğinin Araştırılması**  
Karabulut F., Koca F. D., Önder Z.  
23. Parazitoloji Kongresi, Antalya, Turkey, 30 October - 03 November 2023, pp.246
- III. **Anopheles sacharovi Favre Larvalarına Karşı Gilaburu (Viburnum opulus) Yaprak Ekstresinden Sentezlenen Gümüş Nanopartiküllerinin Larvisit Etkinliğinin Araştırılması**  
Uluer Ö., Koca F. D., Yıldırım A.  
23. Parazitoloji Kongresi, Antalya, Turkey, 30 October - 03 November 2023, pp.241
- IV. **Evaluation of Sensor Applications for Atrazine of Gold Nanoparticles synthesized by Using Punica granatum Bark Extract**  
Türkmen F., Koca F. D.  
NANO 2023, Ivano-Frankivsk, Ukraine, 16 August - 19 September 2023, pp.99
- V. **Green Synthesis and Characterization of Gold Nanoparticles by using Aesculus hippocastanum Bark Extract**  
Koca F. D., Türkmen F.  
11 th International Conference on Advanced Technologies, İstanbul, Turkey, 17 - 19 August 2023, pp.54
- VI. **Antioxidant Activity Of Green Synthesized Platinum Nanoparticles By Using Tornabea scutellifera Extract**  
Koca F. D., Muhy H. M., Halıcı M. G.  
International Conference on Advanced Technologies, İstanbul, Turkey, 17 - 19 August 2023, pp.57
- VII. **Plant-Based Synthesis of Organic@Inorganic Hybrid Cu Based Nanoflower Using Cucumber Leaf Extract as Organic Component**  
Koca F. D., Erdem T.  
IV. INTERNATIONAL CONFERENCE ON NATURAL SCIENCES AND TECHNOLOGIES ICONAT-2022, Antalya, Turkey, 24 - 27 August 2022, pp.82
- VIII. **Synthesis, characterization, and antioxidant activity of platinum nanoparticles synthesized via Palmaria decipens extract**  
Muhy H. M., Koca F. D., Halıcı M. G.  
10th International Istanbul Scientific Research Congress, İstanbul, Turkey, 23 - 25 July 2022, pp.263-267
- IX. **Determination Of Antioxidant Activity Of Pt Nanoparticles Synthesized With Gigartina skottsbergii Extract**  
Muhy H. M., Koca F. D., Halıcı M. G.  
10th International Istanbul Scientific Research Congress, İstanbul, Turkey, 23 - 25 July 2022, pp.268-272
- X. **Antioxidant Activity of Ascoseria mirabilis Extract Based Pt Nanoparticle**  
Muhy H. M., Koca F. D., Halıcı M. G.  
9th International Istanbul Scientific Research Congress, İstanbul, Turkey, 14 - 15 May 2022, pp.779-784
- XI. **Green synthesis of Cystosphaera Jaquinotii Extract Based Pt Nanoparticles And Evaluation Of Their Antioxidant Activity**  
Muhy H. M., Koca F. D., Halıcı M. G.  
9th International Istanbul Scientific Research Congress, İstanbul, Turkey, 14 - 15 May 2022, pp.774-778
- XII. **Potential Effects of CaO Nanoparticles on Germination of Common Bean Under Salinity Stress**  
Koca F. D., Nadaroğlu H., Kaymak H. Ç., Kaska M., Alaylı A.  
4 International Symposium on Advanced Materials and Nanotechnology 2020 , 1 - 03 December 2020, pp.247-252
- XIII. **Green Synthesis of Nanoparticles for Wastewater Remediation**  
Koca F. D., Nadaroğlu H.  
4th International Symposium on Advanced Materials and Nanotechnology 2020, 1 - 03 December 2020, pp.253-258
- XIV. **Anticancer Activity of Lichen Extract (Usnea sp.) Based Synthesized Ag@ZnO Bimetallic Nanocomposite**  
Işık Y., Ünal G., Koca F. D., Halıcı M. G.  
The 3rd International conference on Natural Products for Cancer Prevention and Therapy, Kayseri, Turkey, 18 - 20 December 2019, pp.51
- XV. **Biosynthesis of NiFe<sub>2</sub>O<sub>4</sub> Nanocomposites by Pomegranate Bark Extract**  
Koca F. D., Şahin B.  
International Erciyes Agriculture, Animal & Food Sciences Conference, Kayseri, Turkey, 24 April 2019 - 27 April 2020, pp.159
- XVI. **Preparation of Ag@GO nanocomposite using the Antarctic endemic lichenized fungus Umbilicaria antarctica extract and investigation of its antimicrobial properties.**  
HALICI M. G., KOCA F. D., ÖÇSOY İ., DEMİRBAŞ A.  
Nanotechnology and Nanomaterials (NANO-2019), Lviv, Ukraine, 27 - 30 September 2019
- XVII. **Biosynthesis of Ag@GO nanocomposite using the colchicine and evaluation of its antimicrobial properties**  
Koca F. D., Öçsoy İ., Demirbaş A., Satıcıoğlu İ. B., Demirezen Yılmaz D., Yılmaz E.  
7th International Conference "Nanotechnology and Nanomaterials" NANO-2019, Lviv, Ukraine, 27 - 30 August 2019, pp.691
- XVIII. **Preparation of Ag@GO nanocomposite using the Antarctic endemic lichenized fungus Umbilicaria antarctica extract and investigation of its antimicrobial properties**  
Halıcı M. G., Koca F. D., Öçsoy İ., Demirbaş A.  
7th International Conference "Nanotechnology and Nanomaterials" NANO-2019, Lviv, Ukraine, 27 - 30 August 2019, pp.692
- XIX. **The Effect of Dietary Panax Ginseng Supplementation on Performance of Laying Quail**  
ÜLGER İ., KALİBER M., KOCA F. D.  
International Conference on Science and Technology (ICONST 2018), Prizren, Kosova, 5 - 09 September 2018, pp.110
- XX. **Effects of Zinc Oxide Nanoparticles Supplementation on the Growth Performance of Holstein Calves during Prewaning Period**  
ÜLGER İ., KOCA F. D., KALİBER M.  
International Conference on Science and Technology (ICONST 2018), Prizren, Kosova, 5 - 09 September 2018, pp.976
- XXI. **Green Synthesis of Ag Nanoparticle Using Hibiscus sabdariffa and Its Antimicrobial Activity**  
DEMİREZEN YILMAZ D., ÜLGER İ., KOCA F. D., KALİBER M., ERTAŞ ONMAZ N., YILMAZ E.  
uluslararası Ekoloji Sempozyumu 2018, 23 - 29 June 2018, no.1
- XXII. **Green Synthesis of Ag and Ag@GO Nanocomposite Using Rose Extract and Evaluation of It's Antimicrobial Activities**  
KOCA F. D., ÜLGER İ., DEMİREZEN YILMAZ D., ERTAŞ ONMAZ N., KALİBER M., DUMAN F., ÖÇSOY İ.  
Uluslararası Ekoloji Sempozyumu, 19 - 23 June 2018, no.1
- XXIII. **Antimicrobial Activity of Bio-synthesized Zinc Oxide Nanoparticle**  
KOCA F. D., ÜLGER İ., DEMİREZEN YILMAZ D., KALİBER M.  
9th International Conference on Chemical, Agriculture, Environment and Natural Sciences (CAENS-18), Antalya, Turkey, 3 - 04 May 2018

- XXIV. **Comparison of Antimicrobial Activity of Biologically Synthesized Silver and Zinc Nanoparticles Using *Alchemilla vulgaris* Extract**  
DEMİREZEN YILMAZ D., KOCA F. D., Yılmaz Ş.  
1st International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018)26-27 April 2018 Ankara/Turkey, 26 - 27 April 2018
- XXV. **Biyolojik Sentez Demir, Gümüş ve Çinko Nanopartiküllerinin *Lemna minör*'de Ekotoksik Etkileri**  
Yılmaz Ş., DEMİREZEN YILMAZ D., KOCA F. D., AÇIKGÖZ S.  
1st International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018)26-27 April 2018 Ankara/Turkey, 26 - 27 April 2018
- XXVI. **Biosynthesis and Characterization of Zinc Nanoparticles Using *Lavandula officinalis* and Their Antimicrobial Activity**  
DEMİREZEN YILMAZ D., KOCA F. D., YILMAZ Ş., AKSU DEMİREZEN D.  
1st International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018, Ankara, Turkey, 26 - 27 April 2018, pp.1
- XXVII. **Biosynthesis and Characterization of Zinc Nanoparticles Using *Lavandula officinalis* and their Antimicrobial Activity**  
DEMİREZEN YILMAZ D., KOCA F. D., Yılmaz Ş., Aksu Demirezen D.  
1st International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2018)26-27 April 2018 Ankara/Turkey, 26 - 27 April 2018
- XXVIII. **GREEN SYNTHESIZED ZINC OXIDE NANOPARTICLE USING EUROPEAN CRANBERRY BUSH FOR ENHANCED ANTIMICROBIAL AND ANTICANCER EFFECT IN BREAST CANCER**  
DEMİREZEN YILMAZ D., KOCA F. D., YALÇIN AZARKAN S., ERCAN F.  
ISER-340th International Conference on Nanoscience, Nanotechnology Advanced Materials (IC2NAM), 9 - 10 April 2018
- XXIX. **Antibacterial Effects of ZnO Nanoparticles Synthesized by Green Chemistry via *Lavandula Stoechas* Leave Extract**  
DUMAN F., DEMİREZEN YILMAZ D., KOCA F. D., ERTAŞ ONMAZ N.  
UKECEK 2017, 12 - 15 September 2017
- XXX. **Antibacterial Effects of ZnO Nanoparticles Synthesized by Green Chemistry via *Lavandula Stoechas* Leave extract**  
DEMİREZEN YILMAZ D., DUMAN F., KOCA F. D., ERTAŞ ONMAZ N.  
XIII. Congress of Ecology and Environment with international participations, 12 - 15 September 2017
- XXXI. **Genotoxic and Cytotoxic Activity of Green Synthesized TiO<sub>2</sub> Nanoparticles**  
KOCA F. D., DUMAN F.  
NANOTECHNOLOGY AND NANOMATERIALS" NANO-2017, Chernivtsi, Ukraine, 23 - 26 August 2017, pp.819
- XXXII. **Cytotoxic effects of bio-synthesized silver nanoparticles from *Viburnum opulus L.* in breast cancer (SKBR-3) cells: An in-vitro analysis**  
DEMİREZEN YILMAZ D., KOCA F. D., ERCAN F., YALÇIN AZARKAN S.  
ICMSN 2017 : 2017 International Conference on Materials Sciences and Nanomaterials, 14 - 16 July 2017
- XXXIII. **Comparison of Bio-synthesized silver and zinc nanoparticles from *Viburnum opulus L.* for antimicrobial activity**  
DEMİREZEN YILMAZ D., KOCA F. D., Yılmaz Ş., demirezen k.  
International Conference on Materials Sciences and Nanomaterials, 13 - 16 July 2017
- XXXIV. **Effects of Water level Changing on heavy metal Removal by *Lemna gibba* and *Lemna minor* in Aquatic Microcosms**  
DEMİREZEN YILMAZ D., KOCA F. D., Yılmaz Ş., Aksu Demirezen D.  
Ecology 2017, 11 - 13 May 2017
- XXXV. **Synthesis, Characterization and Genotoxic effect of *Mentha aquatica* Extract Mediated ZnO Nanoparticles**  
KOCA F. D., DUMAN F.  
ECOLOGY 2017, Kayseri, Turkey, 11 - 13 May 2017, pp.322
- XXXVI. **Effects of the Water Level Changing on Heavy Metal Removal by *Lemna Gibba* and *Lemna Minor* in Aquatic Microcosms**  
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- XXXVII. **Bio-Synthesis of Magnetic Iron Nanoparticles Using Different Plant Extracts for Nickel Removal in Contaminated Waste Water**  
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- XLII. **Bio-synthesis of silver and zinc nanoparticles by *Persea americana* (Avacado) and its antimicrobial activity against multi drug resistant *Staphylococcus aureus***  
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- XLVI. **Green Synthesis of Silver Nanoparticles Using Flower Extract of *Centaurea cyanus* and Its Antimicrobial Activity**

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XLVII. **Centaurea cyanus Çiçek Ekstraktları Kullanılarak Gümüş Nanopartiküllerinin Biyolojik Sentezi ve Antimikrobiyal Aktivitesi Uluslararası Ekoloji 2016 Sempozyumu KARS TÜRKİYE 16 19 Mayıs 2016 pp 1 1**

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XLIX. **Biosynthesis of CdS Quantum Dots by Leaf Extract of Water Minth (Mentha aquatica L.)**

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L. **Facile Biosynthesis of Silver Nanoparticles Using Tilia Tomentosa Leaf Extract: its Characterization and Antimicrobial Activity**

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LI. **Kırşehir Kılıçözü Deresi (Kırşehir)'nde Yetişen Typha angustifolia L. Bitkisinde Ağır Metal Düzeylerinin Mevsimsel Değişimi**

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## Supported Projects

UYSAL ÇİLOĞLU F., AL S., KOCA F. D., Project Supported by Higher Education Institutions, Karbapenem Dirençli Bakterinin Hızlı Tespitine Yönelik Yüzeyle Zenginleştirilmiş Raman Spektroskopisi ile Yeni Yaklaşımlar Geliştirilmesi, 2023 - Continues

KOCA F. D., BASMA A., Project Supported by Higher Education Institutions, At Kestanesi Tarçın ve Ebegümece ile Cu Tabanlı Organik İnorganik Hibrit Nanopartiküllerin Sentezi Gıda Patojenlerine Karşı Antimikrobiyal Özellikleri, 2023 - Continues

KOCA F. D., TÜRKMEN F., Project Supported by Higher Education Institutions, Altın Nanopartiküllerinin Biyosentezi Karakterizasyonu Ve Hızlı Gıda Güvenliği Taramasında Kolorimetrik Sensör Olarak Uygulanabilirliğinin Belirlenmesi, 2023 - Continues

Konuklugil B., Koca F. D., Eriççi A., Ünal G., Bozkurt N. M., Uras İ. S., TUBİTAK Project, Tethya Citrina ve Mycale Massa Süngerleri ile Endofit Mantarlarından Nöroprotektif Etkili Bileşiklerin Araştırılması, 2024 - 2027

ŞENTÜRK M., DEVELİ N., BOZBEK Ç. K., EREN M., KOCA F. D., Project Supported by Higher Education Institutions, Ratlarda Çinko Oksit Nanopartikülünün Oksidatif Stres Sitokin Kaspaz3 ve Immunité Üzerine Etkisi, 2022 - 2024

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Satıcıoğlu İ. B., Aydın F., Abay S., Karakaya E., Koca F. D., Kayman T., Duman M., TUBİTAK Project, Investigation of the effects of mucilage in the Marmara Sea on microbial biodiversity, public health and aquatic animal health., 2021 - 2022

HALICI M. G., ÖÇSOY İ., KOCA F. D., Kabalak M., Karaarslan İ. Ç., GÜLLÜ M., TUBİTAK Project, James Ross Adası (Antarktika Yarımadası) Likenleşmiş Mantar Türlerinin DNA Barkodlamaları ve Antarktika Endemiği Bazı Liken Türlerine ait özütle ile çeşitli nanopartiküllerin sentezi ve uygulama alanları, 2019 - 2022

YILMAZ E., DEMİRBAŞ A., ÇİMEN B., KOCA F. D., DEMİREZEN YILMAZ D., SATICIOĞLU İ. B., ÖÇSOY İ., Project Supported by Higher Education Institutions, Kolşisin ve hürudin etken maddeleri ile hibrit nanomalzemelerin sentezlenmesi katalitik aktivite ve balık patojenlerine karşı antimikrobiyal özelliklerinin belirlenmesi, 2018 - 2020

DEMİREZEN YILMAZ D., ERTAŞ ONMAZ N., YILMAZ Ş., KOCA F. D., Project Supported by Higher Education Institutions, KAYISI ÇEKİRDEĞİ ETKEN MADDESİ İLE SENTEZLENEN ÇİÇEK ŞEKLİ HİBRİT NANOYAPININ KARAKTERİZASYONU, KATALİTİK ÖZELLİĞİ VE GIDA PATOJENLERİNDE ANTİMİKROBİYAL ETKENLİĞİNİN TAYİNİ, 2018 - 2019

YILMAZ E., KOCA F. D., DEMİREZEN YILMAZ D., ERTAŞ ONMAZ N., Project Supported by Higher Education Institutions, Kolşisin etken maddesi ile çiçek şekilli hibrid nano yapıların sentezi katalitik aktivite ve balık patojenlerine karşı antimikrobiyal özelliklerinin belirlenmesi, 2018 - 2019

KOCA F. D., ERTAŞ ONMAZ N., DEMİREZEN YILMAZ D., YILMAZ E., Project Supported by Higher Education Institutions, Bazı bitkilerin etken maddeleri ile çiçek şekilli hibrid nano yapıların sentezi karakterizasyonu katalitik ve balık patojenlerine karşı antimikrobiyal özelliklerinin belirlenmesi, 2018 - 2019

Koca F. D., Project Supported by Other Official Institutions, Bitkisel Yolla Sentezlenen Gümüş Nanopartiküllerinden Antimikrobiyal ve Antikanser Madde üretimi, 2017 - 2019

DUMAN F., KOCA F. D., Project Supported by Higher Education Institutions, CuO, ZnO ve TiO2 Nanopartiküllerinin Mentha aquatica L Bitkisinin Yaprak Ekstraktı Kullanılarak Biyosentezi Karakterizasyonu ve Genotoksik Etkilerinin Belirlenmesi, 2015 - 2017

## Tasks In Event Organizations

Koca F. D., Taşkavak E., Satıcıoğlu İ. B., Koçbaş F., TÜBİTAK 2237-A-SUCUL ESKOSİSTEMLERDE ARAŞTIRMA YÖNTEMLERİ 2024, Science / Art Camp or Summer School Organization, Antalya, Turkey, Mart 2024

Koca F. D., Taşkavak E., Sivri N., Koçbaş F., Halıcı M. G., TÜBİTAK 2237-A-SUCUL ESKOSİSTEMLERDE ARAŞTIRMA YÖNTEMLERİ 2023, Science / Art Camp or Summer School Organization, Antalya, Turkey, Şubat 2023

Koca F. D., Özşeker K., Taşkavak E., Koçbaş F., Gürkan Ş., TÜBİTAK 2237-A-SUCUL ESKOSİSTEMLERDE ARAŞTIRMA YÖNTEMLERİ 2022, Science / Art Camp or Summer School Organization, Antalya, Turkey, Şubat 2022

Koca F. D., Kaya M., Samsun O., TÜBİTAK 2237-A-SUCUL ESKOSİSTEMLERDE ARAŞTIRMA YÖNTEMLERİ 2019, Science / Art Camp or Summer School Organization,

Antalya, Turkey, Mart 2019

## Metrics

Publication: 92

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H-Index (WoS): 7

H-Index (Scopus): 7

## Congress and Symposium Activities

EKOLOJİ 2016 ULUSLARARASI ADNAN ALDEMİR SEMPOZYUMU, Attendee, Kars, Turkey, 2016

International Congress on Applied Biological Sciences, Attendee, Sarajevo, Bosnia And Herzegovina, 2016

Doğa ve Mühendislik Bilimlerinde Terimleme Çalışmaları Eğitimi, Attendee, Antalya, Turkey, 2016

27th European Conference on Biomaterials, Attendee, Krakow, Poland, 2015

Ekoloji 2015, Attendee, SİNOP, Turkey, 2015

Olympus Mikroskopi Semineri, Attendee, Turkey, 2014

Eppendorf New Brunswick Semineri, Attendee, Kayseri, Turkey, 2014

Doğa Bilimleri Alanı Proje Yönetimi Eğitimi, Attendee, Antalya, Turkey, 2014

Marine Biotechnology Symposium, Attendee, UMMAN/MUSCAT, United Arab Emirates, 2013

Erciyes Dağı ve Çevresinde Bilim ve Doğa Okulu 2013, Attendee, Kayseri, Turkey, 2013

Trace Elements in the Environment: Contamination Cleanup to Phytoproducts, Attendee, İstanbul, Turkey, 2010