

## Assoc. Prof. İSMAİL ÖÇSOY

### Personal Information

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### International Researcher IDs

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### Biography

Ismail Öçsoy received his B. S. in Chemistry from the Kırıkkale University, Turkey. He earned his MS and Ph.D. in chemistry at the University of Florida under the supervisory of Prof. Weihong Tan. His research focuses on the synthesis, characterization and development of novel hybrid nanomaterials for biological and biomedical applications including small molecules capturing from cancer cells, enrichment of glycoproteins and detection, killing of a drug resistance bacteria, aptamer conjugated nanomaterials and targeted photodynamic and photothermal therapies for various types of cancer.

### Education Information

Doctorate, University of Florida, Collage Of Sciences And Arts, Chemistry, United States Of America 2011 - 2014

Postgraduate, University of Florida, Collage Of Sciences And Arts, Chemistry, United States Of America 2009 - 2011

Undergraduate, Kırıkkale University, Faculty Of Arts And Sciences, Kimya, Turkey 2002 - 2006

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, ENGINEERING MULTIFUNCTIONAL HYBRID NANOMATERIALS FOR BIOANALYTICAL AND BIOMEDICAL APPLICATIONS , University Of Florida, Collage Of Sciences And Arts, Chemistry, 2014

### Research Areas

Basic Sciences, Chemistry, Analytical Chemistry, Bioanalytical Methods, Sensors, Surface Analysis, Biochemistry, Biophysical Chemistry, Bioinorganic Chemistry, Physical Chemistry, nanocomposites, Surface Chemistry

### Academic Titles / Tasks

Associate Professor, Erciyes University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri , 2017 - Continues

Assistant Professor, Erciyes University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri , 2015 - 2017

Lecturer PhD, Erciyes University, Fen Fakültesi, Kimya , 2014 - 2015

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

- I. **Synthesis of taurine-Cu-3(PO<sub>4</sub>)(2) hybrid nanoflower and their peroxidase-mimic and antimicrobial properties**  
Yilmaz S. G., DEMİRBAŞ A., Karaagac Z., Dadi S., Celik C., Yusufbeyoglu S., ILDIZ N., Mandal A. K., ÇİMEN B., ÖÇSOY İ.  
JOURNAL OF BIOTECHNOLOGY, vol.343, pp.96-101, 2022 (Peer-Reviewed Journal)
- II. **Preparation of magnetic horseradish peroxidase-laccase nanoflower for rapid and efficient dye degradation with dual mechanism and cyclic use**  
Gul O. T., ÖÇSOY İ.  
MATERIALS LETTERS, vol.303, 2021 (Peer-Reviewed Journal)
- III. **Co-Enzymes based nanoflowers incorporated-magnetic carbon nanotubes: A new generation nanocatalyst for superior removal of cationic and anionic dyes with great repeated use**  
Gul O. T., ÖÇSOY İ.  
ENVIRONMENTAL TECHNOLOGY & INNOVATION, vol.24, 2021 (Peer-Reviewed Journal)
- IV. **A facile and one-pot aqueous phase transfer of oleylamine capped Au NP with aminophenylboronic acid used as transfer and targeting ligand**  
Karaagac Z., Yusufbeyoglu S., ILDIZ N., Sellami H., ÖÇSOY İ.  
ENZYME AND MICROBIAL TECHNOLOGY, vol.148, 2021 (Peer-Reviewed Journal)
- V. **DNA Aptamer-Conjugated Magnetic Graphene Oxide for Pathogenic Bacteria Aggregation: Selective and Enhanced Photothermal Therapy for Effective and Rapid Killing**  
Ocsoy M. A., Yusufbeyoglu S., ILDIZ N., ÜLGEN A., ÖÇSOY İ.  
ACS OMEGA, vol.6, no.31, pp.20637-20643, 2021 (Peer-Reviewed Journal)
- VI. **Green synthesis of silver nanoparticles using aqueous extracts of three Sideritis species from Turkey and evaluations bioactivity potentials**  
Ceylan R., DEMİRBAŞ A., ÖÇSOY İ., Aktumsek A.  
Sustainable Chemistry and Pharmacy, vol.21, 2021 (Peer-Reviewed Journal)
- VII. **Novel Anthocyanin-Based Colorimetric Assay for the Rapid, Sensitive, and Quantitative Detection of Helicobacter pylori**  
Celik C., CAN SEZGİN G., Kocabas U. G., GÜRSOY Ş., ILDIZ N., Tan W., ÖÇSOY İ.  
ANALYTICAL CHEMISTRY, vol.93, no.15, pp.6246-6253, 2021 (Peer-Reviewed Journal)
- VIII. **Can food and food supplements be deployed in the fight against the COVID 19 pandemic?**  
Celik C., Gençay Göksu A., Öçsoy İ.  
BIOCHIMICA ET BIOPHYSICA ACTA-GENERAL SUBJECTS, vol.1865, no.2, 2021 (Peer-Reviewed Journal)
- IX. **Silver Nanoparticles Biosynthesized from Vaccinium myrtillus L. against Multiple Antibiotic Resistance and Biofilm Forming Escherichia coli and Pseudomonas aeruginosa**  
ILDIZ N., Korkmaz F., Yusufbeyoglu S., Kilic A. B., ÖÇSOY İ.  
INDIAN JOURNAL OF PHARMACEUTICAL EDUCATION AND RESEARCH, vol.55, no.1, 2021 (Peer-Reviewed Journal)
- X. **Simultaneous use of phenylboronic acid as a phase transfer agent and targeting ligand for gold nanoparticles**  
Karaagac Z., Onal I., Ildiz N., Öçsoy İ.  
MATERIALS LETTERS, vol.280, 2020 (Peer-Reviewed Journal)
- XI. **Preparation of nature inspired indicator based agar for detection and identification of MRSA and MRSE**  
Celik C., Ildiz N., Sağıroğlu P., Atalay M. A., Yazıcı C., Öçsoy İ.  
TALANTA, vol.219, 2020 (Peer-Reviewed Journal)
- XII. **Dopamine and norepinephrine assistant-synthesized nanoflowers immobilized membrane with**

**peroxidase mimic activity for efficient detection of model substrates**

Dadi S., Celik C., Mandal A. K. , ÖÇSOY İ.

APPLIED NANOSCIENCE, 2020 (Peer-Reviewed Journal)

- XIII. **Peroxidase-like activity and antimicrobial properties of curcumin-inorganic hybrid nanostructure**  
KOCA F. D. , Yilmaz D. D. , Onmaz N. E. , ÖÇSOY İ.  
Saudi Journal of Biological Sciences, vol.27, no.10, pp.2574-2579, 2020 (Peer-Reviewed Journal)
- XIV. **Transfer of hydrophobic colloidal gold nanoparticles to aqueous phase using catecholamines**  
Karaagac Z., Gul O. T. , ILDIZ N., ÖÇSOY İ.  
JOURNAL OF MOLECULAR LIQUIDS, vol.315, 2020 (Peer-Reviewed Journal)
- XV. **Horseradish peroxidase-based hybrid nanoflowers with enhanced catalytic activities for polymerization reactions of phenol derivatives**  
GÖKTÜRK E., ÖÇSOY İ., Turac E., ŞAHMETLİOĞLU E.  
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.31, no.10, pp.2371-2377, 2020 (Peer-Reviewed Journal)
- XVI. **Can concomitant use of zinc and curcumin with other immunity-boosting nutraceuticals be the arsenal against COVID-19?**  
Roy A., Sarkar B., Celik C., Ghosh A., Basu U., Jana M., Jana A., Gençay Göksu A., Can Sezgin G., Ildiz N., et al.  
PHYTOTHERAPY RESEARCH, vol.34, pp.2425-2428, 2020 (Peer-Reviewed Journal)
- XVII. **Gallic acid nanoflower immobilized membrane with peroxidase-like activity for m-cresol detection**  
Dadi S., Celik C., ÖÇSOY İ.  
SCIENTIFIC REPORTS, vol.10, no.1, 2020 (Peer-Reviewed Journal)
- XVIII. **Preparation of natural indicator incorporated media and its logical use as a colorimetric biosensor for rapid and sensitive detection of Methicillin-resistant Staphylococcus aureus**  
Celik C., ILDIZ N., Kaya M. Z. , Kilic A. B. , ÖÇSOY İ.  
ANALYTICA CHIMICA ACTA, vol.1128, pp.80-89, 2020 (Peer-Reviewed Journal)
- XIX. **Response to "MacIntyre et al., 2020: A rapid systematic review of the efficacy of face masks and respirators against coronaviruses and other respiratory transmissible viruses for the community, healthcare workers and sick patients"**  
Mandal A. K. , Dam P., Franco O. L. , Sellami H., Mandal S., CAN SEZGİN G., Biswas K., Nandi P. S. , ÖÇSOY İ.  
INTERNATIONAL JOURNAL OF NURSING STUDIES, vol.109, 2020 (Peer-Reviewed Journal)
- XX. **Green synthesis of allicin based hybrid nanoflowers with evaluation of their catalytic and antimicrobial activities**  
KOCA F. D. , Yilmaz D. D. , Onmaz N. E. , YILMAZ E., ÖÇSOY İ.  
BIOTECHNOLOGY LETTERS, vol.42, no.9, pp.1683-1690, 2020 (Peer-Reviewed Journal)
- XXI. **Bio-molecule functionalized rapid one-pot green synthesis of silver nanoparticles and their efficacy toward the multidrug resistant (MDR) gut bacteria of silkworms (Bombyx mori)**  
Some S., Sarkar B., Biswas K., Jana T. K. , Bhattacharjya D., Dam P., Mondal R., Kumar A., Deb A. K. , Sadat A., et al.  
RSC ADVANCES, vol.10, no.38, pp.22742-22757, 2020 (Peer-Reviewed Journal)
- XXII. **One step preparation of stable gold nanoparticle using red cabbage extracts under UV light and its catalytic activity**  
Unal I. S. , Demirbas A., Onal I., Ildiz N., Öçsoy İ.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, vol.204, 2020 (Peer-Reviewed Journal)
- XXIII. **Synthesis of Long-Term Stable Gold Nanoparticles Benefiting from Red Raspberry (Rubus idaeus), Strawberry (Fragaria ananassa), and Blackberry (Rubus fruticosus) Extracts-Gold Ion Complexation and Investigation of Reaction Conditions**  
DEMİRBAŞ A., Buyukbezirci K., Celik C., Kislakci E., Karaagac Z., Gokturk E., Kati A., ÇİMEN B., YILMAZ V., ÖÇSOY İ.  
ACS OMEGA, vol.4, no.20, pp.18637-18644, 2019 (Peer-Reviewed Journal)
- XXIV. **Formation of functional nanobiocatalysts with a novel and encouraging immobilization approach and their versatile bioanalytical applications**  
Celik C., Tasdemir D., Demirbas A., Kati A., Gul O. T. , ÇİMEN B., ÖÇSOY İ.  
RSC ADVANCES, vol.8, no.45, pp.25298-25303, 2018 (Peer-Reviewed Journal)

## Articles Published in Other Journals

- I. **A new approach for green synthesis and characterization of Artemisia L. (Asteraceae) genotype extracts -Cu<sub>2</sub> nanocomplexes (nanoflower) and their effective antimicrobial activity**  
Baldemir Kiliç A., Altinkaynak C., Ildız N., Özdemir N., Yılmaz V., Öçsoy İ.  
Medicine Science International Medical Journal, vol.9, no.1, pp.191-196, 2020 (Peer-Reviewed Journal)
- II. **Kudret Narı (Momordica charantia Descourt.) Meyvesinden Safılaştırılan Peroksidaz Enzimi Kullanılarak Hibrit Nano Çiçekler Sentezlenmesi ve Direct blue 1 Gideriminde Kullanılabilirlikleri**  
ALTINKAYNAK C., BALDEMİR KILIÇ A., ÖZDEMİR N., YILMAZ V., ÖÇSOY İ.  
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.9, no.2, pp.573-583, 2020 (Peer-Reviewed Journal)
- III. **Pisolithus arrhizus Ekstraktı Kullanılarak Sentezlenen Titanyum Nanopartikülünün Antimikrobiyal Etkisi**  
YUVALI ÇELİK G., ONBAŞLI D., Özbahar Ö., ÖÇSOY İ.  
Erciyes Üniversitesi Veteriner Fakültesi Dergisi, vol.16, no.3, pp.157-161, 2019 (Peer-Reviewed Journal)
- IV. **Kitozan Gümüş Nanopartikülü ve Kitozan-Gümüş-Grafen Oksit Nanokompozitinin Sentezi, Karakterizasyonu ve Antimikrobiyal Aktivitelerinin belirlenmesi**  
ONBAŞLI D., YUVALI ÇELİK G., Durbilmez G. D. , ÖÇSOY İ.  
Journal of Faculty of Veterinary Medicine Erciyes University, vol.15, no.3, pp.208-215, 2018 (Peer-Reviewed Journal)
- V. **Kitosan-gümüş nanopartikülü ve kitosan-gümüş-grafen oksit nanokompozitinin sentezi, karakterizasyonu ve antimikrobiyal aktivitelerinin Belirlenmesi.**  
ONBAŞLI D., YUVALI ÇELİK G., Durbilmez G. D. , ÖÇSOY İ.  
ERÜ Veteriner Fakültesi Dergisi, vol.15, no.3, pp.208-215, 2018 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **Plant Extract Guided Nanomaterials and Plant Disease Management**  
KARAAĞAÇ Z., DADI Ş., Ekrikaya S., ÖÇSOY İ.  
in: Nanotechnology in Sustainable Agriculture, M. Anwar Mallick, Manoj Kumar Solanki, Baby Kumari, Suresh Kumar Verma, Editor, CRC Press, Boca Raton, pp.1-20, 2021
- II. **Nanotechnology in Plants**  
ÖÇSOY İ., Tasdemir D., Mazıoğlu S., Tan W.  
in: Advances in Biochemical Engineering/Biotechnology, Scheper, Th., Belkin, S., Bley, Th., Bohmann, J., Gu, M.B., Hu, W.-S., Mattiasson, B., Nielsen, J., Seitz, H., Ulber, R., Zeng, A.-P., Zhong, J.-J., Zhou, W., Editor, Springer International Publishing, pp.1-13, 2018
- III. **Biomimetic Fractal Nanometals As A Transducer Layer in Electrochemical Biosensing**  
McLamore E., Convertino, M., ÖÇSOY İ., Vanegas D., Taguchi M., Rong Y., Gomes C., Chaturvedi P., Claussen J.  
in: Semiconductor Based Sensors, Ren Fan, Pearton Stephen J , Editor, World Scientific Publishing , Danvers, pp.1-35, 2016

## Refereed Congress / Symposium Publications in Proceedings

- I. **Çilek ekstrelerinden tek basamakta sentezlenen gümüş nanopartiküllerin antimikrobiyal özelliklerinin endodontik patojenler üzerine etkisi**  
YILMAZ E., DEMİRBAŞ A., Çelik Ç., İLDİZ N., DEMİRBUĞA S., ÖÇSOY İ.  
ERDİŞ ULUSLARARASI DİŞ HEKİMLİĞİ KONGRESİ, 26 - 28 February 2020
- II. **Propolis Tabanlı Nanoçiçeklerin Sentezi ve İn vitro Antimikrobiyal Aktiviteleri**  
BALDEMİR KILIÇ A., Akçakaya S., İLDİZ N., İLGÜN S., Yusufbeyoğlu S., ÖÇSOY İ.  
ULUSLARARASI SAĞLIK VE SPOR BİLİMLERİNDE AKADEMİK ÇALIŞMALAR SEMPOZYUMU, 15 - 17 November

2019

- III. **Propolis Tabanlı Nanoçiçeklerin Sentezi ve In Vitro Antimikrobiyal Aktiviteleri**  
BALDEMİR KILIÇ A., Akçakaya S., İLDİZ N., İLGÜN S., YUSUFBEYOĞLU S., ÖÇSOY İ.  
7th International Symposium on Academic Studies in Health and Sports Sciences, 15 - 17 November 2019, vol.1, pp.1-12
- IV. **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
- V. **YENİ BİR İMMOBİLİZASYON YAKLAŞIMI İLE BSA- KOBALT (II) HİBRİT NANOÇİÇEKLERİN SENTEZİ VE KARAKTERİZASYONU**  
KARAAĞAÇ Z., ÖÇSOY İ.  
III. International Scientific and Vocational Studies Congress – Science and Health, 27 - 30 June 2019, vol.1, pp.115-120
- VI. **LİGNİN PEROKSİDAZ TEMELLİ NANOKOMPOZİTLERİN SENTEZLENMESİ VE KARAKTERİZASYONU**  
KIŞLAKÇI E., ÖÇSOY İ.  
III. International Scientific and Vocational Studies Congress – Science and Health, 27 - 30 June 2019, vol.1, pp.109-114
- VII. **PREPARATION OF ARTEMISIA L. (ASTERACEAE) EXTRACTS INCORPORATED NANOFLOWERS AND THEIR ENHANCED ANTIMICROBIAL ACTIVITY**  
BALDEMİR KILIÇ A., ALTINKAYNAK C., İLDİZ N., ÖZDEMİR N., YILMAZ V., ÖÇSOY İ.  
International Multidisciplinary Symposium on Drug Research Development (DRD 2019), 1 July - 03 January 2019, vol.1, pp.233-239
- VIII. **3-Florofenol'ün Horseradish Peroksidaz Nanobiyokatalizörü ile polimerleştirilmesi: Sentez, Karakterizasyon ve Termal Kararlılık**  
GÖKTÜRK E., ÖÇSOY İ.  
International Turkic World Congress on Science and Engineering, 17 - 18 April 2019, vol.1, pp.432-439
- IX. **BAKIR İYONU KATILMIŞ HORSERADİŞ PEROKSİDAZ NANOBİYOKATALİZÖRÜ İLE 2-KLOROFENOL'ÜN POLİMERLEŞTİRİLMESİ**  
GÖKTÜRK E., ÖÇSOY İ.  
AVRASYA 2. ULUSLARARASI UYGULAMALIBİLİMLER KONGRESİ, 12 - 14 April 2019, vol.1, pp.99-105
- X. **MODIFICATION OF MANNITOL SALT AGAR BY USING BRASSICA OLERACEA L. AND SALICORNIA EUROPAEATO IDENTIFICATION STAPHYLOCOCCUS AUREUS**  
İLDİZ N., KAYA M. Z., BALDEMİR KILIÇ A., ÖÇSOY İ.  
ERASMUS International Academic Research Symposium in Health Sciences, 5 - 06 April 2019, vol.1, pp.235-236
- XI. **HORSERADİŞ PEROKSİDAZ NANOBİYOKATALİZÖRÜ İLE ANİLİN'İN POLİMERLEŞTİRİLMESİ**  
GÖKTÜRK E., ÖÇSOY İ.  
AVRASYA 2. ULUSLARARASI UYGULAMALIBİLİMLER KONGRESİ, 12 - 14 April 2019, vol.1, pp.89-98
- XII. **International Eurasian Conference on Biological and Chemical Sciences (**  
ÖÇSOY İ., KATI A.  
Nanotechnology in Detergent Industry: Enzymes Incorporated Hybrid Nanoflower and Their Enhanced Stain Removal Capability, 27 - 30 October 2018
- XIII. **Synthesis of Mannase Hybrid Nanocomposite and Investigation of Its Stain Removal Performance**  
ÖÇSOY İ., YILMAZ V., ÇİMEN B., DEMİRBAŞ A.  
3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), 24 - 26 October 2018
- XIV. **Folic Acid Directed Organic-Inorganic Hybrid Nanoflowers and Investigation of Their Catalytic and Antimicrobial Activities**  
YILMAZ V., ÖÇSOY İ., İLDİZ N.  
3rd International Mediterranean Science and Engineering Congress (IMSEC 2018), 24 - 26 October 2018
- XV. **Application, Characterization and Comparative Antimicrobial Activity Of Hypericum aucheri Jaub. & Spach and Hypericum perforatum L. Extracts Conjugated Hybrid Nanoflowers**

ILDIZ N., BALDEMİR A., İNCE U., İLGÜN S., ÖÇSOY İ.

International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 26 - 29 June 2018

- XVI. **Application, Characterization and Comparative Antimicrobial Activity of Hypericum aucheri Jaub. Spach and Hypericum perforatum L. Extracts Conjugated Hybrid Nanoflowers**  
ILDIZ N., BALDEMİR A., İNCE U., İLGÜN S., ÖÇSOY İ.  
ISOPS-2018, Ankara, Turkey, 26 - 29 June 2018
- XVII. **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
- XVIII. **APPLICATION, CHARACTERIZATION AND COMPARATIVEANTIMICROBIAL ACTIVITY OF HYPERICUM AUCHERI JAUB. SPACH VE HYPERICUM PERFORATUM L. EXTRACTS CONJUGATED HYBRID NANOFLOWERS**  
ILDIZ N., BALDEMİR A., İNCE U., İLGÜN S., ÖÇSOY İ.  
12. ISOPS, 26 - 29 June 2018
- XIX. **A New Approach to Medicinal Plants: Organic-Inorganic Hybrid Structure (Nanoflower)**  
BALDEMİR A., ILDIZ N., ÖÇSOY İ.  
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 April - 27 May 2018, pp.10
- XX. **Synthesis of Anthocyanin-Rich Red cabbage Nanoflowers and Their Antimicrobial and Cytotoxic Properties**  
KONCA S. F. , TASDEMİR D., AYDOĞDU G., YILMAZ E., BOZKIR A., ÖÇSOY İ.  
2nd International Conference on Natural Products for Cancer Prevention and Therapy,, 8 - 11 November 2017
- XXI. **Synthesis of enzyme-inorganic hybrid nanoflowers using the purified peroxidase from ripe and unripe bitter gourd and its use in dye decolorization**  
ALTINKAYNAK C., BALDEMİR A., ÖZDEMİR N., YILMAZ V., ÖÇSOY İ.  
Ancon-International Congress on Chemistry and Materials Science, Ankara, Turkey, 5 - 07 October 2017
- XXII. **Green tea (Camellia sinensis (L.) Kuntze) extracts and its majör components, caffeine and catechin, guided formation of Ag NPs and their enhanced antimicrobial activities.**  
KONCA S. F. , ONBAŞLI D., YUVALI ÇELİK G., ÖÇSOY İ.  
2nd International Mediterranean Science and Engineering Congress, Adana, Turkey, 25 - 27 October 2017
- XXIII. **Red Cabbage (Brassica oleracea) Extract Directed Organic-Inorganic Nanoflower and Investigation Their Enzyme Mimicand Antioxidant Activities**  
ÖÇSOY İ., YILMAZ V., Taşdemir D., Mazıcıoğlu S., Çelik Ç.  
2nd International Mediterranean Science and Engineering Congress, 25 - 27 October 2017
- XXIV. **Green synthesis of silver nanoparticles using Berries((Strawberry (Fragaria vesca), Raspberry (Rubus idaeus), Blackberry (Rubus fruticosus)) and evaluation of their antimicrobial activity**  
DEMİRBAŞ A., ILDIZ N., BALDEMİR A., ÖÇSOY İ.  
2nd International Mediterranean Science and Engineering Congress, 25 - 27 October 2017
- XXV. **The Effect of Metal Ions on the Formation of BSA Based Hybrid Nanostructures and on Their Enzyme Mimic and Antimicrobial Activities**  
Arslan Öçsoy M., TAŞDEMİR D., MAZICIOĞLU S., Çelik Ç., ILDIZ N., YILMAZ V., ÖÇSOY İ.  
2nd International Mediterranean Science and Engineering Congress, 25 - 27 October 2017
- XXVI. **Therapeutic effects of silver nanoparticles synthesized using anthocyanin rich Vaccinium myrtillus L. against multiple antibiotic resistant Escherichia coli and Pseudomonas aeruginosa biofilms**  
ILDIZ N., Korkmaz F., BALDEMİR A., Yusufbeyoğlu S., ÖÇSOY İ.  
International Mediterranean Science and Engineering Congress (IMSEC 2017), Adana, Turkey, 25 - 27 October 2017, pp.344
- XXVII. **Formation of Nanoflower From Denatured Enzyme and Investigation of Their Catalytic Activities**  
ARSLAN ÖÇSOY M., TAŞDEMİR D., ÇELİK Ç., ILDIZ N., BALDEMİR A., ÖÇSOY İ., YILMAZ V.  
13th Nanoscience Nanotechnology Conference (NanoTR-13), 22 - 25 October 2017

- XXVIII. **Vitamin Molecules (folic acid, thiamine and riboflavin) and Metal ions Incorporated Flower-Like Nanocomposites and Their Enzyme Mimic and Antimicrobial Activities**  
ÖÇSOY İ., BALDEMİR A., ILDIZ N., YILMAZ V.  
13th Nanoscience Nanotechnology Conference (NanoTR-13), 22 - 25 October 2017
- XXIX. **Chitosan-Metal Ions Based Hybrid Nanostructures and Their Antimicrobial Properties**  
ÖÇSOY İ., YILMAZ V., ILDIZ N.  
International Health and Natural Sciences Conference, 19 - 21 October 2017
- XXX. **Synthesis of Lipaz and Dual Metal Ions Coordinated Flower-Shaped Hybrid Nanostructures with Examination of Catalytic and Antimicrobial Properties**  
ARSLAN ÖÇSOY M., ÖÇSOY İ., YILMAZ V., ILDIZ N.  
International Health and Natural Sciences Conference (INHSC 2017), 19 - 21 October 2017
- XXXI. **Enhanced antimicrobial activity of lactoperoxidase incorporated hybrid nanoflowers**  
Tavlaşoğlu S., Altınkaynak C., ALTINSOY B., ÖZDEMİR N., ÖÇSOY İ., KÖKSAL Z., ÖZDEMİR H.  
International Congress on Chemistry and Materials Science (Ancon), Ankara, Turkey, 5 - 07 October 2017
- XXXII. **Synthesis of enzyme-inorganic hybrid nanoflowers using the purified peroxidase of from ripe and unripe Bitter bitter Gourd gourd and its use in dye decolorization**  
Altınkaynak C., BALDEMİR A., ÖZDEMİR N., YILMAZ V., ÖÇSOY İ.  
International Congress on Chemistry and Materials Science (Ancon), Ankara, Turkey, 5 - 07 October 2017
- XXXIII. **Green tea (Camellia sinensis (L.) Kuntze) extracts and its major components, caffeine and catechin, guided formation of Ag NPs and their enhanced antimicrobial activities**  
KONCA S. F. , ONBAŞLI D., YUVALI ÇELİK G., ÖÇSOY İ.  
International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 September 2017
- XXXIV. **Synthesis of hybrid Ag/Au NPs using green tea (Camellia sinensis (L.) Kuntze) plant leaf extract with their antimicrobial activities**  
KONCA S. F. , ONBAŞLI D., YUVALI ÇELİK G., ÖÇSOY İ.  
International Mediterranean Science and Engineering Congress (IMSEC 2017), 25 - 27 September 2017
- XXXV. **DNA Aptamer Conjugated Gold Nanostructures For Molecular Recognition and Photothermally Destruction of Methicillin-Resistant Staphylococcus Aureus**  
ÖÇSOY İ., Yusufbeyoğlu S., Çelik Ç., ILDIZ N., YILMAZ V., MCLAMORE E.  
28th International Conference on Photochemistry, 16 - 21 July 2017
- XXXVI. **Aggregation of DNA aptamer conjugated magnetic graphene oxide and methicillin-resistant staphylococcus aureus cells for rapid and effective photothermal destruction**  
Öçsoy M. A. , KÖSEOĞLU R., ÜLGEN A., ÖÇSOY İ.  
BIOMED2017, 22nd International Biomedical Science and Technology Symposium, Ankara, Turkey, 12 - 14 May 2017, pp.177
- XXXVII. **Selected various aptamer conjugated gold nanorod as a nano platform for recognizing and photothermally killing of drug resistance pathogenic bacteria**  
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## **Supported Projects**

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## Metrics

Publication: 194

Citation (WoS): 2796

Citation (Scopus): 2966

H-Index (WoS): 32

H-Index (Scopus): 33

## Congress and Symposium Activities

Aptamer Functionalized Gold Nanostructures for Photothermally Destruction of MRSA as a Pathogenic Bacteria, Attendee, Kocaeli, Turkey, 2016

A Green Approach For Formation Of Silver Nanoparticles On Magnetic Graphene Oxide And Highly Effective Antimicrobial Activity And Reusability, Attendee, İstanbul, Turkey, 2016

Designing oAnthocyanins Obtained From Red Cabbage as a Temperature and pH Sensitive Sensor and Its Use in Intelligent Food Packaging, Attendee, İzmir, Turkey, 2016

In vivo copper nanoparticle synthesis from copper-polluted water using common water weed (*Elodea canadensis*), Attendee, Edinburgh, United Kingdom, 2015

ICG-conjugated magnetic graphene oxide for dual photothermal and photodynamic therapy, Attendee, İstanbul, Turkey, 2015

Biyojenik Yöntem İle Ag/Cu Hibrit Nano Partiküllerin DNA Adsorbe Edilmiş Grafen Oksit Üzerinde Sentezlenmesi Ve Karakterizasyonu, Attendee, Çanakkale, Turkey, 2015

Lakkaz-İnorganik Hibrit Nanoflower Sentezi Ve Karakterizasyonu., Attendee, Çanakkale, Turkey, 2015

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Facile Biosynthesis of Silver Nanoparticles Using *Tilia tomentosa* Leaf Extract: its Characterization and Antimicrobial Activity, Attendee, Kraków, Poland, 2015

Cd(II) Ve Pb(II)' Nin Katı Faz Mikrokstraksiyonu İçin Cu(I)-Bsa Flower Hibrit Materyalinin Sentezi ve Karakterizasyonu, Attendee, Çanakkale, Turkey, 2015

Aptamer Functionalized Au@MnO Metallic Nanoflower Does Triple Duties: Targeting, Capture and Detection., Attendee, Ankara, Turkey, 2015

Protein-Inorganic BSA-Cu (III) Hybrid Nanoflowers Biosensor for Detection of Hg(II) Ions, Attendee, Ankara, Turkey, 2015

A New Generation of Flower-Like Nanobiocatalyst for Superior Enzymatic Activity, Attendee, Paris, France, 2015

Aptamer-conjugated nanostructures for affinity mass spectrometry, Attendee, Ankara, Turkey, 2015

Preparation and Characterizaiton of Lactoperoxidase Hybrid Nanaoflowers (LPO hNFs), Attendee, Ankara, Turkey, 2015

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Biyomedikal ve Biyoanalitik Uygulamalar için Akıllı Hibrit Nanomalzemelerin Sentezi, Karaterizasyonu ve Geliştirilmesi, Attendee, Ankara, Turkey, 2015

Biomaterials Day 2014, Attendee, Gainesville, FL, USA, United States Of America, 2014

Florida Inorganic and Materials Symposium (FIMS), Attendee, Gainesville, FL, USA, United States Of America, 2013

6th Annual NanoScience Technology Symposium, Attendee, Gainesville, FL, USA, United States Of America, 2013

Advanced Materials World Congress (AMWC 2013), Attendee, Izmir/Cesme, Turkey , Turkey, 2013

4th International Symposium on Tomato Diseases & 28th U.S. Annual Tomato Disease Workshop, Attendee, Orlando, Florida, USA, United States Of America, 2013

UF Health Cancer Center Research Poster Day, Attendee, Gainesville, FL, USA, United States Of America, 2013

64th Pittsburgh Conference, Attendee, Philadelphia, PA, USA , United States Of America, 2013

64th Pittsburgh Conference, Attendee, Philadelphia, PA, USA , United States Of America, 2013

5th Annual NanoScience Technology Symposium, Attendee, Tampa, FL, USA , United States Of America, 2012

5th Annual NanoScience Technology Symposium, Attendee, Tampa, FL, USA , United States Of America, 2012

Department of Food Science/University of Florida, Attendee, Gainesville, FL, USA, United States Of America, 2012

63rd Pittsburgh Conference, Attendee, Orlando, FL, USA , United States Of America, 2012

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## **Scholarships**

Yurt Dışı Dil öğrenimi, Yüksek Lisans ve Doktora Eğitimi Bursu, Ministry of Education, 2008 - Continues