

# Prof. İSMAİL ÖÇSOY

## Personal Information

**Office Phone:** +90 352 207 6666 Extension: 28033

**Email:** ismailocsoy@erciyes.edu.tr

**Web:** <https://avesis.erciyes.edu.tr/arastirma-grubu/ocsoylab>

**Address:** Erciyes Üniversitesi, Eczacılık Fakültesi, Talas, Kayseri

## International Researcher IDs

ORCID: 0000-0002-5991-3934

ScopusID: 37017685100

Yoksis Researcher ID: 125571

## 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

Professor, Erciyes University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2023 - Continues  
Associate Professor, Erciyes University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2017 - 2022  
Assistant Professor, Erciyes University, Eczacılık Fakültesi, Temel Eczacılık Bilimleri, 2015 - 2017  
Lecturer PhD, Erciyes University, Fen Fakültesi, Kimya, 2014 - 2015

## Academic and Administrative Experience

Erciyes University, 2019 - Continues

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

- I. **UV light promoted dihydrolipoic acid and its alanine derivative directed rapid synthesis of stable gold nanoparticles and their catalytic activity**  
Temur N., Dadi S., Nisari M., Ucuncuoglu N., Avan I., ÖÇSOY İ.  
Scientific reports, vol.14, no.1, pp.24697, 2024 (SCI-Expanded)
- II. **A novel composite electrochemical sensor doped ion-imprinted polymer based on N-methacryloyl-L-histidine/ethylene glycol dimethacrylate for ultrasensitive determination of copper (II) ions in food supplements**  
Topcu C., Yilmaz R. R., Atasoy B. H., ÖÇSOY İ., YILMAZ V.  
Chemical Papers, vol.78, no.15, pp.8245-8260, 2024 (SCI-Expanded)
- III. **Evaluation of the antibacterial activity of dental adhesive containing biogenic silver nanoparticles decorated nanographene oxide nanocomposites (Ag@nGO NCs) and effect on bond strength to dentine**  
ARSLAN S., Ekrikaya S., ILDIZ N., Yusufbeyoglu S., ÖÇSOY İ.  
Odontology, vol.112, no.2, pp.341-354, 2024 (SCI-Expanded)
- IV. **The Use of Conjugated Gold Nanorods with Reduced Toxicity in Photothermal Therapy for MRSA**  
Yusufbeyoglu S., ÇINAR V., Ildiz N., HAMURCU Z., ÖÇSOY İ., Kilic A. B.  
CHEMISTRYSELECT, vol.9, no.11, 2024 (SCI-Expanded)
- V. **Production of flower-shaped nanobiocatalysts from green tea and investigation of their peroxidase mimicking activity on the polymerization of phenol derivatives**  
Kalayci B., Kaplan N., DADI Ş., ÖÇSOY İ., Gokturk E.  
Polymers for Advanced Technologies, vol.35, no.1, 2024 (SCI-Expanded)
- VI. **Red cabbage extract-mediated colorimetric sensor for swift, sensitive and economic detection of urease-positive bacteria by naked eye and Smartphone platform**  
Celik C., Demir N. Y., DUMAN M., ILDIZ N., ÖÇSOY İ.  
Scientific Reports, vol.13, no.1, 2023 (SCI-Expanded)
- VII. **Dentin bond strength and antimicrobial activities of universal adhesives containing silver nanoparticles synthesized with Rosa canina extract**  
Ekrikaya S., Yilmaz E., ARSLAN S., Karaaslan R., Ildiz N., Celik C., ÖÇSOY İ.  
Clinical Oral Investigations, vol.27, no.11, pp.6891-6902, 2023 (SCI-Expanded)
- VIII. **Facile Synthesis of Hybrid Nanoflowers Using Glycine and Phenylalanine and Investigation of Their Catalytic Activity**  
DEMİRBAŞ A., KARSLI B., ÖÇSOY İ.  
Chemistry and Biodiversity, vol.20, no.8, 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. **Development of a Colorimetric Urease Test Based on Au NPS Capped with Anthocyanin for the Rapid**

### **Detection of Helicobacter pylori through Multiple Readouts**

Sezgin G. C., Tekin Y. E., Calim B., Celik C., Alrifai W., Temur N., Ildiz N., ÖÇSOY İ.  
ChemistrySelect, vol.8, no.27, 2023 (SCI-Expanded)

- XI. **Recent Advances in Colorimetric Tests for the Detection of Infectious Diseases and Antimicrobial Resistance**  
Celik C., KALIN ÜNÜVAR G., Cetinkaya Z., Ildiz N., ÖÇSOY İ.  
DIAGNOSTICS, vol.13, no.14, 2023 (SCI-Expanded)
- XII. **Anthocyanin-rich black carrot (*Daucus carota* ssp. sativus var. atrorubens Alef.) and red cabbage (*Brassica oleracea*) extracts incorporated biosensor for colorimetric detection of *Helicobacter pylori* with color image processing**  
Sezgin G. C., ÖÇSOY İ.  
BRAZILIAN JOURNAL OF MICROBIOLOGY, vol.54, no.2, pp.897-905, 2023 (SCI-Expanded)
- XIII. **Natural Molecule-Incorporated Magnetic Organic-Inorganic Nanoflower: Investigation of Its Dual Fenton Reaction-Dependent Enzyme-Like Catalytic Activities with Cyclic Use**  
Altay Ş., Cardoso M. H., Mandal A. K., Franco O. L., Öçsoy İ.  
CHEMISTRYSELECT, vol.8, no.-, pp.1-11, 2023 (SCI-Expanded)
- XIV. **In Situ Synthesis of Horseradish Peroxidase Nanoflower@Carbon Nanotube Hybrid Nanobiocatalysts with Greatly Enhanced Catalytic Activity**  
DADI Ş., Temür N., GÜL O. T., YILMAZ V., ÖÇSOY İ.  
LANGMUIR, vol.39, no.13, pp.4819-4828, 2023 (SCI-Expanded)
- XV. **Organic-Inorganic Nanocomposites of *Aspergillus terreus* Extract and Its Compounds with Antimicrobial Properties**  
Uras I. S., KARSLI B., Konuklugil B., ÖÇSOY İ., DEMİRBAŞ A.  
SUSTAINABILITY, no.5, 2023 (SCI-Expanded)
- XVI. **Surge of mucormycosis during the COVID-19 pandemic**  
Dam P., Cardoso M. H., Mandal S., Franco O. L., SAĞIROĞLU P., POLAT O. A., KÖKOĞLU K., Mondal R., Mandal A. K., ÖÇSOY İ.  
Travel Medicine and Infectious Disease, vol.52, 2023 (SCI-Expanded)
- XVII. **Editorial: Enzyme immobilization technologies and their biomanufacturing applications**  
Cui J., ÖÇSOY İ., Mahmoud M. A., Du Y.  
Frontiers in Bioengineering and Biotechnology, vol.11, 2023 (SCI-Expanded)
- XVIII. **Symposium 3: Development of Multifunctional Nanomaterials and Their Potential Use in Nanomedicine Sempozyum 3.1: Nanotechnology and its Applications**  
ÖÇSOY İ.  
ACTA PHYSIOLOGICA, pp.12, 2023 (SCI-Expanded)
- XIX. **Nanoflower synthesis formed at different pH based on *Crocus sativus* L. (*Crocus stigma*, saffron) extract and its major components: a new approach for enhancing antioxidant, antimicrobial and catalytic activities**  
Baldemir Kılıç A., ILDIZ N., Yusufbeyoğlu S., ÖÇSOY İ.  
Inorganic and Nano-Metal Chemistry, 2023 (SCI-Expanded)
- XX. **Silk-based nano-biocomposite scaffolds for skin organogenesis**  
Dam P., Altuntas S., Mondal R., Baudrit J. R. V., Kati A., Ghorai S., Sadat A., Gangopadhyay D., Shaw S., Franco O. L., et al.  
MATERIALS LETTERS, vol.327, 2022 (SCI-Expanded)
- XXI. ***Usnea antarctica* (James Ross Island, Antarctica) and *Usnea subfloridana* (Uludağ, Turkey) Incorporated Hybrid Nanoflowers with Their Intrinsic Catalytic and Antimicrobial Activities**  
Demirbaş A., Karşlı B., Dadi Ş., Koca F. D., Halıcı M. G., Öçsoy İ.  
CHEMISTRYSELECT, vol.7, no.43, pp.1-11, 2022 (SCI-Expanded)
- XXII. ***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)
- XXIII. **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 (SCI-Expanded)
- XXIV. **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 (SCI-Expanded)
- XXV. **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 (SCI-Expanded)
- XXVI. **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 (SCI-Expanded)
- XXVII. **DNA Aptamer-Conjugated Magnetic Graphene Oxide for Pathogenic Bacteria Aggregation: Selective and Enhanced Photothermal Therapy for Effective and Rapid Killing**  
Ocoy M. A., Yusufbeyoglu S., ILDIZ N., ÜLGEN A., ÖÇSOY İ.  
ACS OMEGA, vol.6, no.31, pp.20637-20643, 2021 (SCI-Expanded)
- XXVIII. **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 (SCI-Expanded)
- XXIX. **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 (SCI-Expanded)
- XXX. **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 (SCI-Expanded)
- XXXI. **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 (SCI-Expanded)
- XXXII. **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, vol.11, no.1, pp.117-125, 2021 (SCI-Expanded)
- XXXIII. **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 (SCI-Expanded)
- XXXIV. **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 (SCI-Expanded)
- XXXV. **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 (SCI-Expanded)

- XXXVI. **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 (SCI-Expanded)
- XXXVII. **Horseradish peroxidase-based hybrid nanoflowers with enhanced catalytical 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 (SCI-Expanded)
- XXXVIII. **Transfer of hydrophobic colloidal gold nanoparticles to aqueous phase using catecholamines**  
Karaagac Z., Gul O. T., İLDİZ N., ÖÇSOY İ.  
JOURNAL OF MOLECULAR LIQUIDS, vol.315, 2020 (SCI-Expanded)
- XXXIX. **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 (SCI-Expanded)
- XL. **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., İLDİZ N., Kaya M. Z., Kilic A. B., ÖÇSOY İ.  
ANALYTICA CHIMICA ACTA, vol.1128, pp.80-89, 2020 (SCI-Expanded)
- XLI. **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 (SCI-Expanded)
- XLII. **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 (SCI-Expanded)
- XLIII. **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 (SCI-Expanded)
- XLIV. **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., İldız N., Öçsoy İ.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B-BIOLOGY, vol.204, 2020 (SCI-Expanded)
- XLV. **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 (SCI-Expanded)
- XLVI. **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 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Investigation of Peroxidase-Like Activity of Flower-Shaped Nanobiocatalyst from Viburnum Opulus L. Extract on the Polymerization Reactions**  
Kalayci B., Kaplan N., Mirioglu M., Dadi S., ÖÇSOY İ., GÖKTÜRK E.

Journal of the Turkish Chemical Society, Section A: Chemistry, vol.11, no.3, pp.1321-1328, 2024 (Scopus)

- II. **Role of pretty nanoflowers as novel versatile analytical tools for sensing in biomedical and bioanalytical applications**  
DADI Ş., ÖÇSOY İ.  
SMART MEDICINE, no.1, 2024 (ESCI)
- III. **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 Kılıç A., Altınkaynak C., İldız N., Özdemir N., Yılmaz V., Öçsoy İ.  
Medicine Science International Medical Journal, vol.9, no.1, pp.191-196, 2020 (Peer-Reviewed Journal)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)

## Books & Book Chapters

- I. **Silver Nanoparticles in Dentistry**  
GÜNDEŞ N. S., TEMUR N., KORKMAZ B., ÖZKAYA Z. A., ÖÇSOY İ.  
in: Silver Nanoparticles for Drug Delivery, PRASHANT KESHERWANI, Editor, Elsevier, Londrina, pp.265-286, 2024
- II. **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
- III. **Synthesis of metallic and metal oxide nanomaterials**  
ÖÇSOY İ., DEMİRBAŞ A., KATI A., ARABACI N., Karaytuğ T.  
in: Green Synthesis of Nanomaterials for Bioenergy Applications, Neha Srivastava (Editor), Manish Srivastava (Editor), P. K. Mishra (Editor), Vijai Kumar Gupta (Editor), Editor, Wiley, pp.99-124, 2020
- IV. **Nanotechnology in Plants**  
ÖÇSOY İ., Tasdemir D., Mazıcioglu S., Tan W.  
in: Advances in Biochemical Engineering/Biotechnology, Scheper, Th., Belkin, S., Bley, Th., Bohlmann, 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
- V. **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. **Exploring Nanotechnology's Role in Advancing Reproductive Biotechnologies: The Current Landscape at Erciyes University and Türkiye**  
Öztürk A. E., Atay Y. E., Bodu M., Sarıözkan S., Öçsoy İ.  
VII. International Congress on Domestic Animal Breeding Genetics and Husbandry Animal Nutrition, Aquaculture, Apiculture and Veterinary Science, Krakow, Poland, 18 - 20 September 2023
- II. **Nanoparticles As Local Delivery Systems In Bone Regeneration**  
YILMAZ ASAN C., ÖÇSOY İ., LEKESİZCAN A., DEMİRBAŞ A. E.  
25th International Conference on Oral And Maxillofacial Surgery, vanvouver, Canada, 08 June 2023
- III. **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 DIŞ HEKİMLİĞİ KONGRESİ, 26 - 28 February 2020
- IV. **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
- V. **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
- VI. **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
- VII. **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
- VIII. **LİGNİN PEROKSİDAZ TEMELLİ NANOKOMPOZİTLERİN SENTEZLENMESİ VE KARAKTERİZASYONU**  
KIŞLAĞI E., ÖÇSOY İ.  
III. International Scientific and Vocational Studies Congress – Science and Health, 27 - 30 June 2019, vol.1, pp.109-114
- IX. **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
- X. **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
- XI. **BAKIR İYONU KATILMIŞ HORSERADİSH 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
- XII. **MODIFICATION OF MANNITOL SALT AGAR BY USING BRASSICA OLERACEA L. AND SALICORNIA EUROPAEA TO 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

- XIII. **HORSERADİŞ PEROKSİDAZ NANOBYOKATALİZÖRÜ İLE ANİLİN'İN POLİMERLEŞTİRİLMESİ**  
GÖKTÜRK E., ÖÇSOY İ.  
AVRASYA 2. ULUSLARARASI UYGULAMALIBİLİMLER KONGRESİ, 12 - 14 April 2019, vol.1, pp.89-98
- XIV. **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
- XV. **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
- XVI. **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
- XVII. **Application, Characterization and Comparative Antimicrobial Activity Of Hypericum aucheri Jaub. & Spach and Hypericum perforatum L. Extracts Conjugated Hybrid Nanoflowers**  
İLDİZ N., BALDEMİR A., İNCE U., İLGÜN S., ÖÇSOY İ.  
International Symposium on Pharmaceutical Sciences, Ankara, Turkey, 26 - 29 June 2018
- XVIII. **Application, Characterization and Comparative Antimicrobial Activity of Hypericum aucheri Jaub. Spach and Hypericum perforatum L. Extracts Conjugated Hybrid Nanoflowers**  
İLDİZ N., BALDEMİR A., İNCE U., İLGÜN S., ÖÇSOY İ.  
ISOPS-2018, Ankara, Turkey, 26 - 29 June 2018
- XIX. **Green Synthesis of Ag and Ag@GO Nanocomposite Using Rose Extract and Evaluation of Its 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
- XX. **APPLICATION, CHARACTERIZATION AND COMPARATIVE ANTIMICROBIAL ACTIVITY OF HYPERICUM AUCHERI JAUB. SPACH VE HYPERICUM PERFORATUM L. EXTRACTS CONJUGATED HYBRID NANOFLOWERS**  
İLDİZ N., BALDEMİR A., İNCE U., İLGÜN S., ÖÇSOY İ.  
12. ISOPS, 26 - 29 June 2018
- XXI. **A New Approach to Medicinal Plants: Organic-Inorganic Hybrid Structure (Nanoflower)**  
BALDEMİR A., İLDİZ N., ÖÇSOY İ.  
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 April - 27 May 2018, pp.10
- XXII. **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
- XXIII. **Synthesis of enzyme-inorganic hybrid nanoflowers using the purified peroxidase from ripe and unripe bitter melon 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
- XXIV. **Red Cabbage (Brassica oleracea) Extract Directed Organic-Inorganic Nanoflower and Investigation of Their Enzyme Mimic and Antioxidant Activities**  
ÖÇSOY İ., YILMAZ V., Taşdemir D., Mazıcıoğlu S., Çelik Ç.  
2nd International Mediterranean Science and Engineering Congress, 25 - 27 October 2017
- XXV. **Therapeutic effects of silver nanoparticles synthesized using anthocyanin rich Vaccinium myrtillus L. against multiple antibiotic resistant Escherichia coli and Pseudomonas aeruginosa biofilms**  
İLDİZ 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

- XXVI. **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., İLDİZ N., YILMAZ V., ÖÇSOY İ.  
2nd International Mediterranean Science and Engineering Congress, 25 - 27 October 2017
- XXVII. **Green synthesis of silver nanoparticles using Berries ((Strawberry (*Fragaria vesca*), Raspberry (*Rubus idaeus*), Blackberry (*Rubus fruticosus*)) and evaluation of their antimicrobial activity**  
DEMİRBAŞ A., İLDİZ N., BALDEMİR A., ÖÇSOY İ.  
2nd International Mediterranean Science and Engineering Congress, 25 - 27 October 2017
- XXVIII. **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.  
2nd International Mediterranean Science and Engineering Congress, Adana, Turkey, 25 - 27 October 2017
- XXIX. **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., İLDİZ N., YILMAZ V.  
13th Nanoscience Nanotechnology Conference (NanoTR-13), 22 - 25 October 2017
- XXX. **Formation of Nanoflower From Denatured Enzyme and Investigation of Their Catalytic Activities**  
ARSLAN ÖÇSOY M., TAŞDEMİR D., ÇELİK Ç., İLDİZ N., BALDEMİR A., ÖÇSOY İ., YILMAZ V.  
13th Nanoscience Nanotechnology Conference (NanoTR-13), 22 - 25 October 2017
- XXXI. **Chitosan-Metal Ions Based Hybrid Nanostructures and Their Antimicrobial Properties**  
ÖÇSOY İ., YILMAZ V., İLDİZ N.  
International Health and Natural Sciences Conference, 19 - 21 October 2017
- XXXII. **Synthesis of Lipase and Dual Metal Ions Coordinated Flower-Shaped Hybrid Nanostructures with Examination of Catalytic and Antimicrobial Properties**  
ARSLAN ÖÇSOY M., ÖÇSOY İ., YILMAZ V., İLDİZ N.  
International Health and Natural Sciences Conference (INHSC 2017), 19 - 21 October 2017
- XXXIII. **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**  
Altunkaynak C., BALDEMİR A., ÖZDEMİR N., YILMAZ V., ÖÇSOY İ.  
International Congress on Chemistry and Materials Science (Ancon), Ankara, Turkey, 5 - 07 October 2017
- XXXIV. **Enhanced antimicrobial activity of lactoperoxidase incorporated hybrid nanoflowers**  
Tavlaşoğlu S., Altunkaynak 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
- XXXV. **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
- XXXVI. **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
- XXXVII. **DNA Aptamer Conjugated Gold Nanostructures For Molecular Recognition and Photothermally Destruction of Methicillin-Resistant Staphylococcus Aureus**  
ÖÇSOY İ., Yusufbeyoğlu S., Çelik Ç., İLDİZ N., YILMAZ V., MCLAMORE E.  
28th International Conference on Photochemistry, 16 - 21 July 2017
- XXXVIII. **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

- XXXIX. **Synthesis of organic-inorganic hybrid nanostructures from amphipathic amino acids and their antimicrobial properties**  
Çelik Ç., Taşdemir D., ÖÇSOY İ.  
The 22nd International Biomedical Science and Technology Symposium, 12 - 14 May 2017
- XL. **Selected various aptamer conjugated gold nanorod as a nano platform for recognizing and photothermally killing of drug resistance pathogenic bacteria**  
ÖÇSOY İ., Yusufbeyoglu S., ILDIZ N., YILMAZ V., ÜLGEN A., McLamore E.  
The 22nd International Biomedical Science and Technology Symposium, 12 - 14 May 2017
- XLI. **Green synthesis of *Laurocerasus officinalis* Roemer (Cherry laurel) fruit extracts based nanoflower: in vitro amoebicidal and catalytic activity**  
BALDEMİR A., Karaman Ü., Yusufbeyoğlu S., EKEN A., ILDIZ N., Çolak C., Şahin G., ÖÇSOY İ.  
Tıbbi ve Aromatik Bitkiler Kongresi, Konya, Turkey, 9 - 12 May 2017, pp.131
- XLII. **GREEN SYNTHESIS OF LAUROCERASUS OFFICINALIS ROEMER (CHERRY LAUREL) FRUIT EXTRACTS BASBD NANOFLOWER WITH IN VITRO AMOEBICIDAL AND CATALYTIC ACTIVITY**  
BALDEMİR A., KARAMAN Ü., Yusufbeyoğlu S., EKEN A., ILDIZ N., ÇOLAK C., Şahin G., ÖÇSOY İ.  
TABKON 2017, 9 - 12 May 2017
- XLIII. **Green synthesis of *Laurocerasus officinalis* Roemer (cherry laurel) fruit extracts based nanoflower with in vitro Amoebicidal and catalytic activity**  
Baldemir A., Karaman Ü., Yusufbeyoğlu S., Eken A., Ildız N., Çolak C., Şahin G., Öçsoy İ.  
I. Uluslararası Tıbbi ve Aromatik Bitkiler Kongresi, Konya, Turkey, 9 - 12 May 2017, pp.1058
- XLIV. **Pisolithus arrhizus EKSTRAKTI KULLANILARAK SENTEZLENEN TİTANYUM NANOPARTİKÜLÜNÜN ANTİMİKROBİYAL ETKİSİ**  
Özbahar Ö., YUVALI ÇELİK G., ONBAŞLI D., ÖÇSOY İ., KONCA S. F.  
3rd International Convention of Pharmaceuticals and Pharmacies, 26 - 29 April 2017
- XLV. **Kitosan-Gümüş ve Kitosan-Gümüş-Grafen Oksit Nanopartiküllerinin Sentezlenmesi ve Antimikrobiyal Aktivitelerinin Belirlenmesi**  
DURBİLMEZ G. D., ONBAŞLI D., YUVALI ÇELİK G., ÖÇSOY İ., Fidan S.  
IVEK 3rd International Convention of Pharmaceuticals and Pharmacies, İstanbul, Turkey, 26 - 29 April 2017, pp.341
- XLVI. **Pisolithus arrhizus Ekstraktı Kullanılarak Sentezlenen Titanyum Nanopartikülü'nün antimikrobiyal etkisi**  
ÖZBAHAR Ö., YUVALI ÇELİK G., ONBAŞLI D., ÖÇSOY İ., KONCA S. F.  
3. Uluslararası İlaç ve Eczacılık Kongresi, İstanbul, Turkey, 26 - 28 April 2017
- XLVII. **Synthesis and characterization of green tea (*Camellia sinensis* (L.) Kuntze) extracts and its major components based nanoflowers: A new strategy to enhance antimicrobial activity**  
BALDEMİR A., KÖSE N. B., ILDIZ N., İLGÜN S., YUSUFBEYOĞLU S., ÖÇSOY İ.  
3. Uluslararası İlaç ve Eczacılık Kongresi, 26 - 29 April 2017
- XLVIII. **Biosynthesis and Characterization of Silver Nanoparticles by *Aspergillus niger* and Their Bioactive Potential Against Pathogen Microorganisms and Cancer Cells**  
ALTINSOY B., BİNGÖL ÖZAKPINAR Ö., RAYAMAN P., GÜRBÜZ B., ÖÇSOY İ., SOYOĞUL GÜRER Ü.  
3. Uluslararası İlaç ve Eczacılık Kongresi, İstanbul, Turkey, 26 - 29 April 2017
- XLIX. **Flower Like Hibrit Turkish Black Radish Peroxidase Cu<sub>2</sub> Nanobiocatalyst**  
ÖZDEMİR N., ÖÇSOY İ., Altınkaynak C., Tavlasoglu S., KALIN R., Sadegihan N.  
2nd International Conference on Organic Electronic Material Technologies, 2 - 05 January 2017
- L. **Biosynthesis of Red Cabbage Extract Directed Ag NPS and Their Effect on the Loss of Antioxidant Activity**  
Demirbas A., Welt B. A., ÖÇSOY İ.  
II International Conference on Food Chemistry and Technology, 14 - 16 November 2016
- LI. **Synthesis of Metal Ions Incorporated Enzyme Based Hybrid Nanoflower**  
ÖZDEMİR N., ÖÇSOY İ., Altınkaynak C., Tavlaşoğlu S., Geçili F.  
2nd International Turkic World Conferance on Chemical Sciences and Technologies (2ndITWCCST), Skopje,

Macedonia, 26 - 30 October 2016

- LII. **DNA Aptamer Functionalized Gold Nanostructures For Molecular Recognition and Photothermally Destruction of Methicillin Resistant Staphylococcus Aureus**  
ÖÇSOY İ., Yusufbeyoglu S., Çelik Ç., Arslan Ocsoy M., ILDIZ N., BALDEMİR A.  
1st International Mediterranean Science and Engineering Congress, 26 - 28 October 2016
- LIII. **Anthocyanin rich Plants Direct Gold Nanoparticle Formation and Their Antimicrobial Activity Against Bacterial and Fungal Pathogens**  
YILMAZ V., Büyükbezirci K., ÖÇSOY İ., BALDEMİR A., ILDIZ N.  
1st International Mediterranean Science and Engineering Congress, 26 - 28 October 2016
- LIV. **Green synthesis of silver nanoparticles using hydrothermal approach and their enhanced antimicrobial activity towards bacterial and fungal pathogens**  
ÖÇSOY İ., Demirkol N., Çelik Ç., Altınkaynak C., ALTINSOY B., ILDIZ N., BALDEMİR A.  
1st International Mediterranean Science and Engineering Congress, İstanbul, Turkey, 26 - 28 October 2016, pp.4251
- LV. **Anthocyanin-rich plants directed gold nanoparticle formation and their antimicrobial activity against bacterial and fungal pathogens**  
YILMAZ V., Büyükbezirci K., ÖÇSOY İ., BALDEMİR A., ILDIZ N.  
1st International Mediterranean SCIENCE AND ENGINEERING CONGRESS, Adana, Turkey, 26 - 28 October 2016, pp.3340
- LVI. **DNA aptamer functionalized gold nanostructures for molecular recognition and photothermally**  
ÖÇSOY İ., Yusufbeyoğlu S., Çelik Ç., Arslan Öçsoy M., ILDIZ N., YILMAZ V.  
IMSEC 2016, 26 - 28 October 2016
- LVII. **Anthocyanin rich plants directed gold nanoparticle formation and their antimicrobial activity**  
YILMAZ V., Büyükbezirci K., ÖÇSOY İ., BALDEMİR A., ILDIZ N.  
IMSEC 2016, 26 - 28 October 2016
- LVIII. **SYNTHESIS AND CHARACTERIZATION OF Viburnum opulus L. (GUELDER ROSE ) EXTRACT BASED NANOFLOWERS: A NEW STRATEGY TO ENHANCE ANTIBACTERIAL ACTIVITY**  
ILDIZ N., BALDEMİR A., Altınkaynak C., ÖZDEMİR N., YILMAZ V., ÖÇSOY İ.  
4th International Bau Drug Design Congress, İstanbul, Turkey, 13 - 15 October 2016, pp.99
- LIX. **Extraction of anthocyanin from red cabbage A comparative study of extraction efficiency using simple low cost techniques**  
Demirbaş A., Welt B. A., Yagiz Y., ÖÇSOY İ., McLamore E.  
Sixth International Conference on Food Studies, 12 - 13 October 2016
- LX. **Synthesis of Lipase Hybrid Nanoflower Through the Coordination Chemistry and Their Excellent Activity**  
Altınkaynak C., Dinler M. Y., ÖZDEMİR N., ÖÇSOY İ.  
3rd international congress on biosensors, 5 - 07 October 2016
- LXI. **Synthesis Of Lipase Based Hybrid Nanoflower Through The Coordination Chemistry and Their Excellent Activity**  
Altınkaynak C., ÖZDEMİR N., DİNLER M. Y., ÖÇSOY İ.  
3rd International Congress on Biosensors, Ankara, Turkey, 5 - 07 October 2016
- LXII. **Synthesis of Catecholamine Metal Ions Coordinated Hybrid Nanoflowers and Their Catalytic Antioxidant and Antimicrobial Properties**  
Çelik Ç., ÖÇSOY İ.  
3rd International Congress On Biosensors, 5 - 07 October 2016
- LXIII. **Synthesis of DNA Aptamer Conjugated Magnetic Graphene Oxide and Its Use As A Photo thermal Agent for Killing Methicillin Resistant Staphylococcus Aureus**  
ÖÇSOY İ., Arslan Öçsoy M.  
3rd International Congress On Biosensors, 5 - 07 October 2016
- LXIV. **Preparation and Enzymatic Application of a Time Dependent Growth of flower like hybrid nanoflowers by horseradish peroxidase**

- Altinkaynak C., ÖZDEMİR N., KOÇ M., ÖÇSOY İ.  
3rd International Congress on Biosensors, Ankara, Turkey, 5 - 07 October 2016
- LXV. **Preparation of Enzymatic Application of a Time Dependent Growth of Flower Like Nanoflower by Horseradish Peroxidase**  
Altinkaynak C., Koç M. V., ÖZDEMİR N., ÖÇSOY İ.  
3rd International Congress On Biosensors, 5 - 07 October 2016
- LXVI. **Biosynthesized Ag NPs from Berry Fruits Strawberry Blackberry and Raspberry and Their Effect on Antioxidant Activity**  
Demirbas A., Welt B. A., ÖÇSOY İ.  
10th Aegean Analytical Chemistry Days, 29 September - 02 October 2016
- LXVII. **Green Synthesis of Magnetic NPs from Red Cabbage Extract and Their Effect on the Antioxidant Activity**  
Demirbas A., Welt B. A., ÖÇSOY İ.  
10th Aegean Analytical Chemistry Days, 29 September - 02 October 2016
- LXVIII. **Küçük peptitlerden Hibrit Nano Yapıların Sentezi, Karakterizasyonu ve Katalitik Aktivite ve Antibakteriyel Özelliklerin İncelenmesi**  
Yusufoğlu S., Büyükbezirci K., YILMAZ V., İLDİZ N., AVAN İ., ÖÇSOY İ.  
VI. Ulusal Polimer Bilim ve Teknoloji Kongresi, Ankara, Turkey, 4 - 07 September 2016, pp.83
- LXIX. **Küçük peptitlerden hibrit nano yapıların sentezi, karakterizasyonu ve katalitik aktivite ve antibakteriyel özelliklerin incelenmesi**  
YUSUFBEYOĞLU S., BÜYÜKBEZİRCİ K., YILMAZ V., ÖÇSOY İ., İLDİZ N., AVAN İ.  
VI. Ulusal Polimer Bilim ve Teknoloji Kongresi, Turkey, 4 - 07 September 2016
- LXX. **Farklı Artemisia L. Türlerinden Ekstre-Cu<sup>2+</sup>-Hibrit Nano Çiçeklerin Sentezi, Karakterizasyonu ve Antimikrobiyal Etkinlikleri**  
BALDEMİR A., Altinkaynak C., İLDİZ N., ÖZDEMİR N., YILMAZ V., ÖÇSOY İ.  
XXII. Bitkisel İlaç Hammaddeleri Toplantısı, Trabzon, Turkey, 31 August - 03 September 2016, vol.1, pp.209
- LXXI. **Farklı Artemisia L. Türlerinden Ekstre Cu<sup>2+</sup> Hibrit Nano Çiçeklerin Sentezi Karakterizasyonu ve Antimikrobiyal Etkinlikleri XXII**  
BALDEMİR A., ALTINKAYNAK C., İLDİZ N., ÖZDEMİR N., YILMAZ V., ÖÇSOY İ.  
XXII. Bitkisel İlaç Hammaddeleri Toplantısı, Trabzon, Turkey, 31 August - 03 September 2016
- LXXII. **Investigation of Phytotoxic Effects of Bio Synthesized Copper Nanoparticles in Elodea Canadensis International Congress on Applied Biological Sciences**  
KOCA F. D., DEMİREZEN YILMAZ D., DUMAN F., ÖÇSOY İ.  
International Congress on Applied Biological Sciences, 27 - 31 May 2016
- LXXIII. **A Green Approach for Formation of Silver Nanoparticles on Magnetic Graphene Oxide and Highly Effective Antimicrobial Activity and Reusability**  
ÖÇSOY İ., Temiz M., Altinkaynak C., ALTINSOY B., DUMAN F.  
2nd International Conference on Pure & Applied Sciences, 1 - 05 June 2016
- LXXIV. **Aptamer Functionalized Gold Nanostructures for Photothermally Destruction of MRSA as a Pathogenic Bacteria**  
ÖÇSOY İ., ÖZDEMİR N., ÖZTÜRK KÜP F.  
12th International Nanoscience and Nanotechnology Conference, Kocaeli, Turkey, 3 - 05 June 2016
- LXXV. **Investigation of Phytotoxic Effects of Bio Synthesized Copper Nanoparticles in Elodea Canadensis**  
KOCA F. D., DUMAN F., ÖÇSOY İ., DEMİREZEN YILMAZ D.  
International Congress on Applied Biological Sciences, Bosnia And Herzegovina, 27 - 31 May 2016
- LXXVI. **Firdevs Geçili, Çiçek Benzeri Şekillere Sahip Manyetik Özellikli Peroksidaz-İnorganik Hibrit Nano Yapıların Hazırlanması ve Karakterizasyonu**  
ÖZDEMİR N., ÖÇSOY İ., Altinkaynak C., Tavlaşoğlu S., Geçili F.  
10. Ulusal Afinitive Teknikleri Kongresi, Balıkesir, Turkey, 26 - 29 May 2016
- LXXVII. **Çiçek Benzeri Şekillere Sahip Manyetik Özellikli Peroksidaz İnorganik Hibrit Nano Yapıların Hazırlanması ve Karakterizasyonu**

ÖZDEMİR N., ÖÇSOY İ., ALTINKAYANK C., TAVLAŞOĞLU S., GEÇİLİ F.

10. Ulusal Afinitive Teknikleri Kongresi, Balıkesir, Turkey, 26 - 29 May 2016

- LXXVIII. **Designing of Anthocyanins Obtained From Red Cabbage as a Temperature and pH Sensitive Sensor and Its Use in Intelligent Food Packaging**  
ÖÇSOY İ.  
IV. ULUSLARARASI GIDA ARGE PROJE PAZARI ETKİNLİĞİ, 23 - 25 May 2016
- LXXIX. **NANO Fe<sub>3</sub>O<sub>4</sub>-GO-MoS<sub>2</sub>-SiO<sub>2</sub> HİBRİTİNİN SENTEZİ, KARAKTERİZASYONU VE MANYETİK KATI FAZEKSTRAKSİYONUNDA KULLANIMI**  
YILMAZ E., ÖZDEMİR B., ÖÇSOY İ., SOYLAK M.  
IV. ESER ANALİZ KONGRESİ, Turkey, 19 - 22 May 2016
- LXXX. **Magnetic Featured Horseradish Peroxidase-Cu<sup>2+</sup> Hybrid Nanoflowers (MhNFs) for Enzymatic Elimination of Phenol**  
ÖZDEMİR N., ÖÇSOY İ., Altınkaynak C., Tavlaşoğlu S.  
2nd International Conference on Organic Electronic Material Technologies (OEMT2016), Çanakkale, Turkey, 17 - 19 May 2016
- LXXXI. **Flower-Like Hybrid Turkish Black Radish Peroxidase-Cu<sup>2+</sup> Nanobiocatalyst**  
ÖZDEMİR N., ÖÇSOY İ., Altınkaynak C., Tavlaşoğlu S., KALIN R., Sadeghian N., ÖZDEMİR H.  
2nd International Conference on Organic Electronic Material Technologies (OEMT2016), Çanakkale, Turkey, 17 - 19 May 2016
- LXXXII. **Synthesized of Lactoperoxidase Incorporated Hybrid Nanoflower and Its Excellent Activity and Stability**  
ÖZDEMİR N., ÖÇSOY İ., Koksal Z., ÖZDEMİR H., Altınkaynak C.  
2nd International Conference on Organic Electronic Material Technologies, 17 - 19 May 2016
- LXXXIII. **Proteaz Enzimlerinin Çiçek Şekli Hibritle Nano Yapılarının Hazırlanması, Karakterizasyonu ve Protein Kesimi Üzerine Etkisi**  
Altınkaynak C., GÜLBAKAN B., ÖZDEMİR N., ÖÇSOY İ.  
18. Ulusal Biyoteknoloji Kongresi, Konya, Turkey, 18 - 19 December 2015, pp.166
- LXXXIV. **Preparation and Characterization of Magnetic Featured Horseradish Peroxidase Hybrid Nanoflowers**  
ÖZDEMİR N., ÖÇSOY İ., Yılmaz İ.  
1st International Turkic World Conference on Chemical Sciences and Technologies, Saraybosna, Bosnia And Herzegovina, 27 October - 01 November 2015
- LXXXV. **In vivo copper nanoparticle synthesis from copper-polluted water using common water weed (Elodea canadensis)**  
DUMAN F., ŞAHAN H., ÖÇSOY İ.  
Aquatic Plants 2015 - 14th International Symposium on Aquatic Plants, Edinburgh, United Kingdom, 14 - 18 September 2015, pp.87
- LXXXVI. **Imaging Nanoflower**  
ŞAKİR M., HANÇER M., ÖÇSOY İ.  
22. Ulusal Elektron Mikroskopi Kongresi, İstanbul, Turkey, 2 - 04 September 2015, vol.1, pp.164
- LXXXVII. **Facile Biosynthesis of Silver Nanoparticles Using Tilia Tomentosa Leaf Extract: its Characterization and Antimicrobial Activity**  
DUMAN F., KAYA M., ÖÇSOY İ., ÖZTÜRK KÜP F., KOCA F. D.  
27th European Conference on Biomaterials, Krakow, Poland, 30 August - 03 September 2015, pp.354
- LXXXVIII. **ICG conjugated magnetic graphene oxide for dual photothermal and photodynamic therapy**  
ÖÇSOY İ., İŞIKLAN N., ÖZDEMİR N., CANSIZ S., WEIHONG T.  
1st International Conference on Natural Products for Cancer Prevention and Therapy, İstanbul, Turkey, 31 August - 02 October 2015
- LXXXIX. **Cd(II) ve Pb(II)'nin Mikroekstraksiyonu İçin Cu(II)-BSA Flower Hibrit Materyalinin Sentezi ve Karakterizasyonu**  
Yılmaz E., ÖZDEMİR N., ÖÇSOY İ., Soylak M.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.587

- XC. **Cd II Ve Pb II Nin Katı Faz Mikroekstraksiyonu İçin Cu Iı Bsa Flower Hibrit Materyalinin Sentezi ve Karakterizasyonu**  
YILMAZ E., ÖÇSOY İ., ÖZDEMİR N., SOYLAK M.  
27. ulusal genel kimya kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XCI. **Lakkaz-İnorganik Hibrit Nanoflower Sentezi ve Karakterizasyonu**  
ÖZDEMİR N., ÖÇSOY I., Yılmaz İ., Altınkaynak C.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.727
- XCII. **Yüksek Katalitik Aktivite Ve Kararlılığa Sahip Çiçek Şekli Yeni Nesil Nanobiyokatalizörlerin Sentezlenmesi Ve Uygulamaları**  
ÖÇSOY İ., ÖZDEMİR N., SOMTÜRK B., HANÇER M., Doğru E., Usta Ş.  
27. ulusal genel kimya kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XCIII. **Yüksek Katalitik Aktivite ve Kararlılığa Sahip Çiçek Şekli Yeni Nesil Nanobiyokatalizörlerin Sentezlenmesi ve Uygulamaları**  
ÖÇSOY I., ÖZDEMİR N., SOMTÜRK YILMAZ B., Doğru E., Usta Ş.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.619
- XCIV. **Cd II ve Pb II nin Katı Faz Mikroekstraksiyonu İçin Cu II BSA Flower Hibrit Materyalinin Sentezi ve Karakterizasyonu**  
YILMAZ E., ÖZDEMİR N., ÖÇSOY İ., SOYLAK M.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XCIV. **Biyojenik Yöntem İle Ag Cu Hibrit Nano Partiküllerin DNA Adsorbe Edilmiş Grafen Oksit Üzerinde Sentezlenmesi Ve Karakterizasyonu**  
Arslan Öçsoy M., ÖÇSOY İ.  
27. ulusal genel kimya kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XCVI. **Mikroekstraksiyonu İçin Cu(II)-BSA Flower Hibrit Materyalinin Sentezi ve Karakterizasyonu**  
Yılmaz E., ÖZDEMİR N., ÖÇSOY I., Soylak M.  
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015
- XCVII. **Protein-Inorganic BSA-Cu(II) Hybrid Nanoflowers Biosensor for Detection of Hg(II) ions**  
Yılmaz E., ÖZDEMİR N., ÖÇSOY I., Görücü H., Yılmaz İ., Soylak M.  
11th Nanoscience and Nanotechnology Conference (NanoTR-11), Ankara, Turkey, 22 - 25 June 2015, pp.18
- XCVIII. **Preparation and Characterization of Lactoperoxidase Hybrid Nanoflowers LPO hNFs**  
ÖZDEMİR N., ÖÇSOY İ., Yılmaz I., Altınkaynak C., ÖZDEMİR H.  
NanoTR-11, Ankara, Turkey, 22 - 25 June 2015
- XCIX. **Aptamer Functionalized Au MnO Metallic Nanoflower Does Triple Duties Targeting Capture and Detection**  
ÖÇSOY İ., Gulbakan B.  
NanoTR-11, Ankara, Turkey, 22 - 25 June 2015
- C. **Protein Inorganic BSA Cu III Hybrid Nanoflowers Biosensor for Detection of Hg II Ions**  
YILMAZ E., ÖZDEMİR H., ÖÇSOY İ., Gorucu H., Yılmaz I., SOYLAK M.  
NanoTR-11, Ankara, Turkey, 22 - 25 June 2015
- CI. **Aptamer conjugated nanostructures for affinity mass spectrometry**  
Gulbakan B., ÖÇSOY İ.  
NanoTR-11, Ankara, Turkey, 22 - 25 June 2015
- CII. **Preparation and Characterization of Lactoperoxidase Hybrid Nanoflowers (LPO hNFs)**  
ÖZDEMİR N., ÖÇSOY I., Yılmaz İ., Altınkaynak C., Özdemir H.  
11th Nanoscience and Nanotechnology Conference (NanoTR-11), Ankara, Turkey, 22 - 25 June 2015, pp.18
- CIII. **A New Generation of Flower-Like Nanobiocatalyst for Superior Enzymatic Activity**  
ÖÇSOY I., ÖZDEMİR N., SOMTÜRK YILMAZ B.  
International Nanotechnology Conference, Paris, France, 15 - 17 June 2015, pp.148
- CIV. **Hedeflenmiş Fototermal ve Fotodinamik Terapi için Aptamer Fonksiyonlandırılmış İndosiyanın Yeşil Boyası İmmobilize Edilmiş Manyetik Grafen Oksitlerin Geliştirilmesi**  
ÖÇSOY I., Işıklan N., ÖZDEMİR N.

5. Fiziksel kimya Kongresi, Konya, Turkey, 16 - 19 May 2015, pp.28

- CV. **Biyomedikal ve Biyoanalitik Uygulamalar için Akıllı Hibrit Nanomalzemelerin Sentezi Karaterizasyonu ve Geliştirilmesi**  
ÖÇSOY İ.  
Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, Ankara, Turkey, 13 May 2015
- CVI. **Trypsin Based Flower Like Paricles for Effective Protein Digestion**  
ÖÇSOY İ., Tan W.  
Biomaterials Day, Gainesville, United States Of America, 24 October 2014
- CVII. **DNA Directed Silver Nanoparticles on Graphene Oxide An Antimicrobial Wrap around a Model Plant Pathogenic Bacteria**  
ÖÇSOY İ., Paret M. L., Arslan Ocsoy M., Tan W.  
6th Annual NanoScience Technology Symposium, Gainesville, United States Of America, 29 September - 30 October 2013
- CVIII. **Engineering Multifunctional Nano Materials for Bioanalytical and Biomedical Applications**  
ÖÇSOY İ., Gulbakan B., Chen T., Arslan Ocsoy M., Tan W.  
Florida Inorganic and Materials Symposium (FIMS), Gainesville, United States Of America, 18 - 19 October 2013
- CIX. **DNA directed Silver Nanoparticles on Graphene Oxide and its Antibacterial properties against Xanthomonas perforans**  
ÖÇSOY İ., Paret M. L., Arslan Ocsoy M., Tan W.  
Advanced Materials World Congress (AMWC 2013), İzmir, Çeşme, Turkey, 16 - 19 September 2013
- CX. **Indocyanine Green Dye Conjugated Magnetic Graphene Oxide for Photothermal Therapy and Magnetic Resonance Imaging**  
ÖÇSOY İ., Erdal H., Arslan Ocsoy M., Yasun E., Tan W.  
64th Pittsburgh Conference, Philadelphia, United States Of America, 17 - 21 March 2013
- CXI. **Pyrene 1 Boronic Acid Conjugated Magnetic Graphene Oxide a New Material for Glycoprotein Capturing**  
ÖÇSOY İ., Gulbakan B., Gokturk E., Erdal H., Cansız S., Arslan Ocsoy M., Tan W.  
5th Annual NanoScience Technology Symposium, Tama, Japan, 28 - 29 September 2012
- CXII. **DNA Guided Metal Nanoparticle Formation on Graphene Oxide Surface**  
ÖÇSOY İ.  
5th Annual NanoScience Technology Symposium, Tama, Japan, 28 - 29 September 2012
- CXIII. **Hybrid Nanoflowers A Single Platform for Targeting Sensing and Analysis**  
ÖÇSOY İ., Gulbakan B., Shukoor M. I., Xiong X., Yasun E., Zhu G., Tan W.  
63rd Pittsburgh Conference, Orlando, United States Of America, 11 - 15 March 2012
- CXIV. **The effect of Surface modification of Aptamer conjugated Gold Silver Nanorods for Rare Protein Detection**  
Yasun E., Gulbakan B., Shukoor M. I., ÖÇSOY İ., Tan W.  
4th Annual NanoScience Technology Symposium, Miami, United States Of America, 30 September - 01 October 2011
- CXV. **One step Facile Surface Engineering of Hydrophobic Nanocrystals with Amphiphilic DNA A General Route to Water soluble Nanocrystals**  
Chen T., ÖÇSOY İ., Yuan Q., Tan W.  
4th Annual NanoScience Technology Symposium, Miami, United States Of America, 30 September - 01 October 2011
- CXVI. **Raman Active Au FePt Hybrid Nanoparticles for Rare Protein Isolation and Quantification**  
ÖÇSOY İ., Shukoor M. I., Gulbakan B., Tan W.  
62nd Pittsburgh Conference, Atlanta, United States Of America, 13 - 18 March 2011

## Supported Projects

Öztürk A. E., Öçsoy İ., Okuroğlu A., Şimşek S., Atay Y. E., Turhan A., Sarıözkan S., Sevgi R., Dadı Ş., Şahin D., TUBITAK Project, Boğa Spermasının Saflaştırılmasında Biyouyumlu Manyetik Fe<sub>3</sub>O<sub>4</sub> Nanoparçacıkların Kullanımı Ve Nano Saflaştırılmış Sperma Elde Edilmesi, 2023 - 2024

ÖÇSOY İ., TEMÜR N., Project Supported by Higher Education Institutions, Lipoik Asitin UV Işığı Altında Plazmonik Altın ve Gümüş Nanopartiküllerin Sentezi Stabilizasyonu ve Faz Transferinde Kullanımının İncelenmesi, 2022 - 2023

ILDIZ N., ÇELİK Ç., ÖÇSOY İ., ÇİMEN B., Project Supported by Higher Education Institutions, Bakteriye selüloz kullanılarak organik-inorganik hibrit nano yapıların sentezi katalitik aktivitelerinin incelenmesi, 2019 - 2020

ÖÇSOY İ., ÇELİK Ç., Project Supported by Higher Education Institutions, Ürikaz Enziminde Organik-Inorganik Hibrit Nano Yapıların Sentez Mekanizmasının İncelenmesi, 2019 - 2020

YILMAZ V., BALDEMİR A., ÖÇSOY İ., Project Supported by Higher Education Institutions, TARÇINDAN EKTRESİNDEN VE MAJOR BİLEŞEN SİNNAMİK ASİT MOLEKÜLÜNDEN ÇİÇEK ŞEKLİ YENİ NESİL HİBRİD NANO YAPILARIN SENTEZLENMESİ VE PEROKSİDAZ BENZERİ AKTİVİTELERİNİN İNCELENMESİ, 2018 - 2020

YILMAZ V., ÖÇSOY İ., BÜYÜKBEZİRCİ K., Project Supported by Higher Education Institutions, AMİNO VE MERKAPTO FENİL BORONİK ASİT-Cu<sup>II</sup> HİBRİD NANO YAPILARIN SENTEZİ ENZİM MİMİK AKTİVİTESİNİN VE HEDEFLİ ANTİBAKTERİYEL AJAN OLARAK KULLANIMININ İNCELENMESİ, 2018 - 2020

ÖÇSOY İ., BALDEMİR A., ÇELİK Ç., DEMİRBAŞ A., ARSLAN ÖÇSOY M., KATI A., ILDIZ N., YILMAZ V., TAŞDEMİR D., ÇİMEN B., Project Supported by Higher Education Institutions, Nanoflower Sentezi ile Enzim Enkapsülasyonu ve Performansta Yüksek Bitki Ekstresi Katkılı Granüle Enzim Oluşturulması, 2018 - 2020

ÖÇSOY İ., Project Supported by Higher Education Institutions, Oksidoredüktaz ve Hidrolaz Enzimlerinden Hibrit Nano Enzimlerin Sentezlenmesi ve Sentez Mekanizmasının İncelenmesi, 2018 - 2019

ÖÇSOY İ., ÇELİK Ç., Project Supported by Higher Education Institutions, Lignin Peroksidaz ve Manganaz Peroksidaz Enzimlerinden Enzim-Metal Hibrit Nano Yapıların Sentezlenmesi ve Sentez Mekanizmasının İncelenmesi, 2018 - 2019

ÖÇSOY İ., YILMAZ V., ÜLGEN A., ILDIZ N., DEMİRBAŞ A., ARSLAN ÖÇSOY M., TAŞDEMİR D., ÇELİK Ç., Project Supported by Higher Education Institutions, Model Protein Enzim ve Bitki Ekstresi Bileşenlerinden Çiçek Benzeri Şekli Hibrit Nano Yapıların Sentezlenmesi ve Organik Çözücülere Yüksek Sıcaklıklara Dayanıklılığının Araştırılması ve Antimikrobiyal Antioksidan Özelliklerinin İncelenmesi, 2017 - 2019

YILMAZ V., ÖÇSOY İ., ILDIZ N., ÇİMEN B., BALDEMİR A., Project Supported by Higher Education Institutions, Bazı Vitamin, Protein ve Karbohidrat Biyomoleküller Kullanılarak Organik-Inorganik Hibrit Nanokompozitlerin Sentezlenmesi, Katalitik, Antioksidan ve Antibakteriyel Aktivite Özelliklerinin İncelenmesi, 2016 - 2019

ÖÇSOY İ., USTA Ş., Project Supported by Higher Education Institutions, Metal-Metal Hibrit Nanopartiküllerinin Tilia Tomentosa Bitkisinin Ekstraktı Kullanılarak Yeşil Kimya Tekniği ile Sentezi Karakterizasyonu ve Antibakteriyel Özelliğinin İncelenmesi, 2015 - 2019

ÖÇSOY İ., YILMAZ V., ILDIZ N., Project Supported by Higher Education Institutions, DNA Aptamer Konjuge Manyetik Grafen Oksidin Sentezlenmesi ve Metisilin Dirençli Staphylococcus Aureusun Öldürülmesi İçin Fototermal Ajan Olarak Kullanılması, 2017 - 2018

YILMAZ V., BALDEMİR A., ÖÇSOY İ., ILDIZ N., Project Supported by Higher Education Institutions, Mor Havuç Bitkisi Ekstraktı Kullanılarak Yeşil Kimya Yöntemi ile Altın Nanopartiküllerin Biyosentezi Karakterizasyonu ve Antibakteriyel Özelliğinin İncelenmesi, 2016 - 2018

ÖÇSOY İ., ÇELİK Ç., TAŞDEMİR D., Project Supported by Higher Education Institutions, Lakkaz Enziminden Farklı Yüzeysel Yüklü Çiçek Şekli Hibrit Nano Yapıların Sentezlenmesi Karakterizasyonu Anyonik ve Katyonik Azo Boyalarının Gideriminde Kullanılması, 2017 - 2017

ÖÇSOY İ., ÇELİK Ç., Project Supported by Higher Education Institutions, Glisin ve Alanin Gibi Amfiprotik Amino Asitlerden Organik-Inorganik Hibrit Nano Yapıların Sentez Mekanizmasının İncelenmesi, 2016 - 2017

ÖÇSOY İ., MCLAMORE E., ÖZTÜRK KÜP F., ÖZDEMİR N., Project Supported by Higher Education Institutions, Aptamer Fonksiyonlandırılmış Altın Nano Çubukların Üretilmesi Patojenik Bakteri Tayini ve Fototermal Olarak Yok Edilmesi İçin Kullanımı, 2015 - 2017

ÖNSES M. S., ÖÇSOY İ., HANÇER M., Project Supported by Higher Education Institutions, Çok Amaçlı Kullanıma Yönelik Nanomalzemelerin Sentezi ve Spektroskopik Karakterizasyonu, 2014 - 2017

ÖÇSOY İ., YILMAZ V., ONBAŞLI D., YUVALI ÇELİK G., Project Supported by Higher Education Institutions, Zengin Flavonoit Kaynaklı Pisolithus arhizus Mantar Ekstraktı Kullanılarak Titanyumdioksit-Gümüş TiO<sub>2</sub>Ag-Titanyumdioksit-Çinko TiO<sub>2</sub>Cu ve Titanyumdioksit-Bakır TiO<sub>2</sub>Zn Bimetalik Nanopartiküllerin Sentezi ve Karakterizasyonu, 2016 - 2016



ALTINSOY B., ŞEKER KARATOPRAK G., ÖÇSOY I., Project Supported by Higher Education Institutions, Gümüş Nanopartiküllerinin Mikrobiyal sentezi Yapısal Analizi Antimikrobiyal ve Antikanser Özelliklerinin Belirlenmesi, 2016 - 2016

ÖZDEMİR N., TAVLAŞOĞLU S., ALTINKAYNAK C., ÖÇSOY I., Project Supported by Higher Education Institutions, Peroksidaz-Cu<sup>2+</sup> Hibrit Nano Çiçeklerin Hazırlanması Karakterizasyonu ve Bazı önemli Endüstriyel Boyaların Giderilmesi Amacı ile Kullanılabilirliğinin Araştırılması, 2015 - 2016

ÖÇSOY İ., DOĞRU E., Project Supported by Higher Education Institutions, Boyut Kontrollü Ag Nanopartiküllerinin ve Ag@GO Nanokompozitin Bitki Ekstraktı Kullanılarak Biyojenik Sentezi ve Antibakteriyel Aktivitelerinin Araştırılması, 2015 - 2016

ÖNSES M. S., ÖÇSOY I., KİREMİTLER N. B., YILMAZ H., Project Supported by Higher Education Institutions, Polistiren-poli(etilen glikol) ikili polimer fırça sistemiyle modifiye edilmiş fonksiyonel yüzeylerin üretilmesi, karakterizasyonu ve metalik nanopartiküllerin sabitleştirilmesinde kullanımı, 2014 - 2016

ÖÇSOY İ., ÖNSES M. S., SOMTÜRK B., İPEKÇİ H. H., ARSLAN ÖÇSOY M., Project Supported by Higher Education Institutions, Yüksek Katalitik Aktivite ve Kararlılığa Sahip Çiçek Şekli Yeni Nesil Nanobiyokatalizörlerin Sentezlenmesi, 2015 - 2015

## Metrics

Publication: 225

Citation (WoS): 2850

Citation (Scopus): 3389

H-Index (WoS): 32

H-Index (Scopus): 34

## 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

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

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

Yüksek Katalitik Aktivite Ve Kararlılığa Sahip Çiçek Şekli Yeni Nesil Nanobiyokatalizörlerin Sentezlenmesi Ve Uygulamaları, Attendee, Çanakkale, 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

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

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

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

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

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

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

Hedeflenmiş Fototermal ve Fotodinamik Terapi için Aptamer Fonksiyonlandırılm İndosiyanin Yeşil Boyası İmmobilize Edilmiş Manyetik Grafin Oksitlerin Geliştirilmesi, Attendee, Konya, 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

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

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

4th Annual NanoScience Technology Symposium, Attendee, Miami, FL, USA, United States Of America, 2011

4th Annual NanoScience Technology Symposium, Attendee, Miami, FL, USA, United States Of America, 2011

4th Annual NanoScience Technology Symposium, Attendee, Miami, FL, USA , United States Of America, 2011

62nd Pittsburgh Conference, Attendee, Atlanta, GA, USA , United States Of America, 2011

## Scholarships

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

## Non Academic Experience

University of Florida, Gainesville, Florida, Amerika

University of Florida