

# Prof. OĞUZ BAYRAKTAR

## Personal Information

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## Biography

**Oguz Bayraktar (MSc, Ph.D.)** received his MSc. and Ph.D. degrees in Chemical Engineering from West Virginia University, USA. He worked as a faculty member in İzmir Institute of Technology between 2001-2014. Then between 2014-2020 He worked as a faculty member at the Department of Chemical Engineering in Ege University. Now, he has been working as a professor at the Department of Bioengineering in Ege University. In 2006, he has established a spin-off company at İzmir Technology Development Zone. After company was successfully commercialized, he handed over his shares. Recently he has established another R&D company at Ege University Technology Development Zone. His research interests include: biopolymers, bioactivities of natural compounds derived from plants, drug delivery systems, and nanotechnology.

## Education Information

Doctorate, West Virginia University, Mühendislik Fakültesi, Kimya Mühendisliği, United States Of America 1996 - 2001

Post Graduate, West Virginia University, Mühendislik Fakültesi, Kimya Mühendisliği, United States Of America 1995 - 1996

Under Graduate, Ege Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1988 - 1993

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Effect of pretreatment on FCC catalyst performance, West Virginia University, Kimya Mühendisliği, 2001

Post Graduate, An electrophoretic tubular membrane reactor for continuous production of secondary metabolites from plant cells/tissues, West Virginia University, Kimya Mühendisliği, 1996

## Research Areas

Chemical Engineering and Technology, Biotechnology, Engineering and Technology

## Academic Titles / Tasks

Professor, Ege University, Mühendislik Fakültesi, Biyomühendislik Bölümü, 2020 - Continues

Professor, Ege University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2014 - 2020

Professor, İzmir Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2012 - 2014

Associate Professor, İzmir Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2006 - 2012

Assistant Professor, İzmir Yüksek Teknoloji Enstitüsü, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2001 - 2006

## Professional Experience

Vice Rector, Ege University, Rektörlük, 2019 - 2020

Director of the Center, Ege University, 2019 - 2020

## Courses

AKIŞKANLAR MEKANİĞİ, Under Graduate, 2016 - 2017, 2017 - 2018

INTRODUCTION TO BIOSEPARATION TECHNIQUES, Under Graduate, 2016 - 2017

## Advising Theses

BAYRAKTAR O., BAŞAL BAYRAKTAR G., Preparation and characterization of wound dressing contact layer, Doctorate, İ.ERDOĞAN(Student), 2015

BAYRAKTAR O., BAŞAL BAYRAKTAR G., Investigation of hemostatic biomaterials containing plant extracts, Doctorate, M.EMİN(Student), 2014

BAYRAKTAR O., Synthesizing of olive leaf extract loaded calcium alginate chitosan microcapsules and investigation of their anticancer activity on cancer cells, Post Graduate, Y.BAL(Student), 2014

BAYRAKTAR O., Characterization and antimicrobial properties of multiple layer silk fibroin/hyaluronic acid film on cocromo alloy, Post Graduate, P.ARPAÇAY(Student), 2013

BAYRAKTAR O., Encapsulation of Sarcopoterim spinosum extract in zein particle by using electrospray method, Post Graduate, C.SÜNGÜÇ(Student), 2013

BAYRAKTAR O., Purification of polyphenolic compounds from crude olive leaf extract, Post Graduate, A.KARAKAYA(Student), 2011

BAYRAKTAR O., Revcovery of phytochemicals (having antimicrobial and antioxidant characteristics) from local plants, Doctorate, E.ALTIOK(Student), 2010

BAYRAKTAR O., Development of natural compound-loaded nanofibers by electrospinning, Post Graduate, A.BORA(Student), 2010

BAYRAKTAR O., Preparation and characterization of silk fibroin based materials loaded with natural compounds, Post Graduate, M.ŞAMLI(Student), 2010

BAYRAKTAR O., Heterotrophic bio-oil production from microalgae, Post Graduate, E.ÇAĞLAR(Student), 2010

BAYRAKTAR O., Antimicrobial and antioxidant, activities of olive leaf extract and its food applications, Post Graduate, K.KAAN(Student), 2010

BAYRAKTAR O., Katesol-O-metiltransferaz (KOMT) enzim aktivitesinin bitkilerden elde edilen bazı alkaloitler ve fenollerle engellenmesi, Post Graduate, D.YALÇIN(Student), 2009

BAYRAKTAR O., Development of biosensors for determination of the total antioxidant capacity, Post Graduate, S.ÇOBAN(Student), 2008

BAYRAKTAR O., Screening of some plant species for their total antioxidant and antimicrobial activities, Post Graduate, D.KAÇAR(Student), 2008

AKARCA U. S. , BAYRAKTAR O., Alcohol dehydrogenase and aldehyde dehydrogenase gene polymorphism in Turkish alcoholic people and control group, Post Graduate, E.SALMAN(Student), 2007

BAYRAKTAR O., Adsorption of olive leaf antioxidants on silk fibroin, Post Graduate, D.BAYÇIN(Student), 2006

BAYRAKTAR O., Formation and characterization of silk fibroin/hyaluronic acid complexes and their use in iontophoretic drug delivery, Post Graduate, Ö.MALAY(Student), 2005

BAYRAKTAR O., The production of thymoquinone from thymol and carvacrol by using zeolite catalysts, Post Graduate, A.GÜNEŞ(Student), 2005

BAYRAKTAR O., Effects of metal cation on the skeletal isomerization of n-buten over ZSM-5 and ferrierite, Post Graduate, Ö.BİRİSOY(Student), 2005

BAYRAKTAR O., Application of silk fibroin in controlled-release of theophylline, Post Graduate, Y.ÖZGARİP(Student), 2004

BAYRAKTAR O., Use of fibroin/hyaluronic acid matrices as a drug reservoir in iontophoretic transdermal delivery, Post Graduate, E.KUDUĞ(Student), 2004

BAYRAKTAR O., Production of proanthocyanidins from grape seeds, Post Graduate, E.ALTİOK(Student), 2003

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **A new approach for the production of multifilament suture -in vitroandin vivoanalysis**  
Rethinam S., Nallathambi G., Vijayan S., BAŞARAN B., MERT A., BAYRAKTAR O., Aruni A. W.  
INTERNATIONAL JOURNAL OF POLYMERIC MATERIALS AND POLYMERIC BIOMATERIALS, 2020 (Journal Indexed in SCI)
- II. **Electrospun nano-bio membrane for bone tissue engineering application-a new approach**  
Rethinam S., BAŞARAN B., Vijayan S., MERT A., BAYRAKTAR O., Aruni A. W.  
MATERIALS CHEMISTRY AND PHYSICS, vol.249, 2020 (Journal Indexed in SCI)
- III. **Electroencapsulation (Electrospraying & Electrospinning) of Active Compounds for Food Applications**  
KÖSE M. D. , BAŞPINAR Y., BAYRAKTAR O.  
CURRENT PHARMACEUTICAL DESIGN, vol.25, pp.1881-1888, 2019 (Journal Indexed in SCI)
- IV. **Use of ozone for the preparation of functional silk fibroin-based biomaterial loaded with bioactive compounds for biomedical applications**  
BAYRAKTAR O., Ozyildiz F.  
OZONE-SCIENCE & ENGINEERING, vol.41, pp.80-91, 2019 (Journal Indexed in SCI)
- V. **Wound Healing Effects of Various Fractions of Olive Leaf Extract (OLE) on Mouse Fibroblasts**  
Erdogan I., BAYRAKTAR O., Uslu M. E. , Tuncel O.  
ROMANIAN BIOTECHNOLOGICAL LETTERS, vol.23, pp.14217-14228, 2018 (Journal Indexed in SCI)
- VI. **Curcumin and piperine loaded zein-chitosan nanoparticles: Development and in-vitro characterisation**  
BAŞPINAR Y., ÜSTÜNDAŞ M., BAYRAKTAR O., SEZGİN C.  
SAUDI PHARMACEUTICAL JOURNAL, vol.26, pp.323-334, 2018 (Journal Indexed in SCI)
- VII. **ADSORPTION/DESORPTION AND BIOFUNCTIONAL PROPERTIES OF OLEUROPEIN LOADED ON DIFFERENT TYPES OF SILK FIBROIN MATRICES**  
Bayraktar O., Balta A. B. , Bayraktar G. B.  
MACEDONIAN JOURNAL OF CHEMISTRY AND CHEMICAL ENGINEERING, vol.36, pp.153-165, 2017 (Journal Indexed in SCI)
- VIII. **OLIVE LEAF EXTRACT LOADED SILK FIBROIN HYALURONIC ACIDNANOFIBER WEBS FOR WOUND DRESSING APPLICATIONS**  
BAŞAL BAYRAKTAR G., DOĞAN G., KURKCU G., BAYRAKTAR O., GURHAN İ. D. , ATABEY A.  
Digest Journal Of Nanomaterials And Biostructures, vol.11, pp.1113-1123, 2016 (Journal Indexed in SCI Expanded)
- IX. **Bioactive Sheath/Core Nanofibers Containing Olive Leaf Extract**  
Dogan G., Basal G., Bayraktar O., Ozyildiz F., Uzel A., Erdogan I.  
MICROSCOPY RESEARCH AND TECHNIQUE, vol.79, pp.38-49, 2016 (Journal Indexed in SCI)
- X. **Olive Leaf Extract as a Crosslinking Agent for the Preparation of Electrospun Zein Fibers**  
Erdogan I., Demir M., BAYRAKTAR O.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.132, 2015 (Journal Indexed in SCI)

- XI. **Characterization of silk fibroin based films loaded with rutin-beta-cyclodextrin inclusion complexes**  
Samli M., Bayraktar O., Korel F.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.80, pp.37-49, 2014 (Journal Indexed in SCI)
- XII. **Olive Leaf Extracts Protect Cardiomyocytes against 4-Hydroxynonenal-Induced Toxicity In Vitro: Comparison with Oleuropein, Hydroxytyrosol, and Quercetin**  
Bali E. B. , Ergin V., Rackova L., Bayraktar O., Kucukboyaci N., Karasu C.  
PLANTA MEDICA, vol.80, pp.984-992, 2014 (Journal Indexed in SCI)
- XIII. **Kinetic and structural characterization of interaction between trypsin and Equisetum arvense extract**  
USLU M. E. , BAYRAKTAR O., CEYLAN C.  
Turkish Journal Of Biochemistry-Türk Biyokimya Dergisi, vol.39, pp.463-471, 2014 (Journal Indexed in SCI Expanded)
- XIV. **Optimization of extraction conditions for active components in Equisetum arvense extract**  
Uslu M. E. , Erdogan I., Bayraktar O., Ates M.  
ROMANIAN BIOTECHNOLOGICAL LETTERS, vol.18, pp.8115-8131, 2013 (Journal Indexed in SCI)
- XV. **Micro-encapsulation of ozonated red pepper seed oil with antimicrobial activity and application to nonwoven fabric**  
Ozyildiz F., Karagonlu S., Basal G., Uzel A., Bayraktar O.  
LETTERS IN APPLIED MICROBIOLOGY, vol.56, pp.168-179, 2013 (Journal Indexed in SCI)
- XVI. **Properties of n-Eicosane-Loaded Silk Fibroin-Chitosan Microcapsules**  
Basal G., Deveci S. S. , Yalcin D., Bayraktar O.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.121, pp.1885-1889, 2011 (Journal Indexed in SCI)
- XVII. **Inhibition of catechol-O-methyltransferase (COMT) by some plant-derived alkaloids and phenolics**  
Yalcin D., Bayraktar O.  
JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, vol.64, pp.162-166, 2010 (Journal Indexed in SCI)
- XVIII. **Pistacia terebinthus extract: As a potential antioxidant, antimicrobial and possible beta-glucuronidase inhibitor**  
Kavak D. D. , Altioek E., Bayraktar O., Ulku S.  
JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, vol.64, pp.167-171, 2010 (Journal Indexed in SCI)
- XIX. **Antibacterial Properties of Silk Fibroin/Chitosan Blend Films Loaded with Plant Extract**  
Basal G., Altioek D., Bayraktar O.  
FIBERS AND POLYMERS, vol.11, pp.21-27, 2010 (Journal Indexed in SCI)
- XX. **pH- and electro-responsive characteristics of silk fibroin-hyaluronic acid polyelectrolyte complex membranes**  
Malay O., Batigun A., Bayraktar O.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.380, pp.120-126, 2009 (Journal Indexed in SCI)
- XXI. **Characterization of silk fibroin/hyaluronic acid polyelectrolyte complex (PEC) films**  
Malay O., Yalcin D., Batigun A., Bayraktar O.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.94, pp.749-755, 2008 (Journal Indexed in SCI)
- XXII. **Characterization and recovery of tartaric acid from wastes of wine and grape juice industries**  
Yalcin D., Ozcalik O., Altioek E., Bayraktar O.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.94, pp.767-771, 2008 (Journal Indexed in SCI)
- XXIII. **Isolation of polyphenols from the extracts of olive leaves (Olea europaea L.) by adsorption on silk fibroin**  
Altioek E., Baycin D., Bayraktar O., Uelkue S.  
SEPARATION AND PURIFICATION TECHNOLOGY, vol.62, pp.342-348, 2008 (Journal Indexed in SCI)
- XXIV. **Clinoptilolite-rich mineral as a novel carrier for the active constituents present in Ginkgo biloba leaf extract**  
Goektas S., Uelkue S., Bayraktar O.

- APPLIED CLAY SCIENCE, vol.40, pp.6-14, 2008 (Journal Indexed in SCI)
- XXV. **Recovery of proanthocyanidin from waste of Turkish traditional product, pekmez (molasses)**  
Altioek E., Ulku S., Bayraktar O.  
FOOD SCIENCE AND TECHNOLOGY RESEARCH, vol.13, pp.321-326, 2007 (Journal Indexed in SCI)
- XXVI. **Complex coacervation of silk fibroin and hyaluronic acid**  
Malay O., Bayraktar O., BATIGÜN A.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.40, pp.387-393, 2007 (Journal Indexed in SCI)
- XXVII. **Adsorption of olive leaf (*Olea europaea* L.) antioxidants on silk fibroin**  
Baycin D., ALTIOEK E., Ulku S., Bayraktar O.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.55, pp.1227-1236, 2007 (Journal Indexed in SCI)
- XXVIII. **A novel silk fibroin-supported iron catalyst for hydroxylation of phenol**  
Peksen B. B., Uzelakcil C., Gunes A., Malay O., Bayraktar O.  
JOURNAL OF CHEMICAL TECHNOLOGY AND BIOTECHNOLOGY, vol.81, pp.1218-1224, 2006 (Journal Indexed in SCI)
- XXIX. **Liquid-phase oxidation of carvacrol using zeolite-encapsulated metal complexes**  
Gunes A., Bayraktar O., YILMAZ S.  
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.45, pp.54-61, 2006 (Journal Indexed in SCI)
- XXX. **Antioxidant antimicrobial and cytotoxic activities of some Turkish plant extracts**  
ALTIOEK E., ABBASİ A. L., BAYRAKTAR O., BULUT Ç., ÜLKÜ S.  
Febs Journal, vol.273, pp.371, 2006 (Journal Indexed in SCI Expanded)
- XXXI. **Silk fibroin as a novel coating material for controlled release of theophylline**  
Bayraktar O., Malay O., Ozgarip Y., BATIGÜN A.  
EUROPEAN JOURNAL OF PHARMACEUTICS AND BIOPHARMACEUTICS, vol.60, pp.373-381, 2005 (Journal Indexed in SCI)
- XXXII. **Bioleaching of nickel from equilibrium fluid catalytic cracking catalysts**  
Bayraktar O.  
WORLD JOURNAL OF MICROBIOLOGY & BIOTECHNOLOGY, vol.21, pp.661-665, 2005 (Journal Indexed in SCI)
- XXXIII. **Temperature-programmed reduction of metal-contaminated fluid catalytic cracking (FCC) catalysts**  
Bayraktar O., KUGLER E. L.  
APPLIED CATALYSIS A-GENERAL, vol.260, pp.125-132, 2004 (Journal Indexed in SCI)
- XXXIV. **Effect of pretreatment on the performance of metal-contaminated fluid catalytic cracking (FCC) catalysts**  
Bayraktar O., KUGLER E. L.  
APPLIED CATALYSIS A-GENERAL, vol.260, pp.119-124, 2004 (Journal Indexed in SCI)
- XXXV. **Temperature-programmed oxidation of equilibrium fluid catalytic cracking catalysts - Effects of pretreatment on coke formation**  
Bayraktar O., KUGLER E. L.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.75, pp.989-998, 2004 (Journal Indexed in SCI)
- XXXVI. **Visualization of the equilibrium FCC catalyst surface by AFM and SEM-EDS**  
Bayraktar O., KUGLER E. L.  
CATALYSIS LETTERS, vol.90, pp.155-160, 2003 (Journal Indexed in SCI)
- XXXVII. **Plant-cell bioreactors with simultaneous electroporabilization and electrophoresis**  
Yang R., Bayraktar O., Pu H.  
Journal of Biotechnology, vol.100, pp.13-22, 2003 (Journal Indexed in SCI)
- XXXVIII. **Coke content of spent commercial fluid catalytic cracking (FCC) catalysts - Determination by temperature-programmed oxidation**  
Bayraktar O., KUGLER E. L.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.71, pp.867-874, 2003 (Journal Indexed in SCI)
- XXXIX. **Characterization of coke on equilibrium fluid catalytic cracking catalysts by temperature-programmed oxidation**

## Articles Published in Other Journals

- I. **Potential Applications of Sarcopoterium spinosum as Medicinal Plants: Overview and Future Trends**  
Ak B., Atak E., Köse M. D., Bayraktar O.  
Current Traditional Medicine, vol.6, pp.1-7, 2020 (Journal Indexed in ESCI)
- II. **Production of Chlorella sp. in a Designed Photobioreactor**  
Ak B., Atak E., KÖSE M. D., BAYRAKTAR O.  
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, vol.15, pp.377-383, 2019 (Other Refereed National Journals)
- III. **Evaluation of the hemostatic activity of Equisetum arvense extract: the role of varying phenolic composition and antioxidant activity due to different extraction conditions**  
USLU M. E., Mele A., BAYRAKTAR O.  
BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY, vol.9, pp.4157-4163, 2019 (Journal Indexed in ESCI)
- IV. **Electrospraying of zein for the preparation of micro/nano-particles loaded with sarcopoterium spinosum extract**  
Süngüç,Süngüç C., Erdoğan İ., Uslu M. E., Bayraktar O.  
Letters in Applied NanoBioScience, vol.18, pp.591-596, 2019 (Refereed Journals of Other Institutions)
- V. **Development of olive leaf extract loaded fibroinmicroparticles by spray drying**  
BAYRAKTAR O., KÖSE M. D., BAŞPINAR Y.  
Drug Discovery, 2019 (Refereed Journals of Other Institutions)
- VI. **Encapsulation of paclitaxel in electrosprayed chitosan nanoparticles**  
Başpınar Y., Akbaba H., Bayraktar O.  
JOURNAL OF RESEARCH IN PHARMACY, vol.23, pp.886-896, 2019 (Journal Indexed in ESCI)
- VII. **Silk Fibroin Nanofibers Loaded with Hydroxytyrosol from Hydrolysis of Oleuropein in Olive Leaf Extract**  
BAYRAKTAR O.  
Textile Leather Review, vol.1, pp.90-98, 2018 (Refereed Journals of Other Institutions)
- VIII. **Antioxidant And Antimicrobial Properties Of Cistus Species**  
KÖSE M. D., TEKİN B. N., BAYRAKTAR O., DUMAN E. T., BAŞPINAR Y.  
International Journal of Secondary Metabolite, 2017 (Other Refereed National Journals)
- IX. **Antioxidant and Antimicrobial Properties of Cistus Ladanifer**  
KÖSE M. D., TEKİN B. N., BAYRAKTAR O., DUMAN E. T., BAŞPINAR Y.  
International Journal of Secondary Metabolite, vol.4, pp.434-444, 2017 (Refereed Journals of Other Institutions)
- X. **Optimization of Extraction Parameters of Phenolic Compounds from Sarcopoterium spinosum Leaves by Response Surface Methodology**  
SUNGUÇ c., BAYRAKTAR O., ERDOĞAN İ., USLU M. E.  
Turkish Journal of Agriculture - Food Science and Technology, vol.5, pp.792-799, 2017 (Refereed Journals of Other Institutions)
- XI. **Response Surface Methodology for Extraction of Curcumin from Turmeric and Piperine from Black Pepper**  
BAŞPINAR Y., ÜSTÜNDAŞ M., BAYRAKTAR O., CANFEZA S.  
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, pp.747-754, 2017 (Other Refereed National Journals)
- XII. **EXTRACTION AND CHARACTERIZATION OF PECTIN FROM FRESH GLOBE ARTICHOKE AND CANNED ARTICHOKE WASTE**  
CEYLAN Ç., BAYRAKTAR O., ATCI E., SARRAFİ Ş.  
GIDA / THE JOURNAL OF FOOD, vol.42, pp.568-576, 2017 (Refereed Journals of Other Institutions)
- XIII. **A Screening Experimental Design to Develop High Extraction Yield of Flavonoids in Ginkgo biloba Leaves**

- GÖKTAŞ S., KÖSE M. D. , BAYRAKTAR O.  
Journal of Pharmaceutical and Applied Chemistry, vol.3, pp.33-39, 2017 (Refereed Journals of Other Institutions)
- XIV. **Nanocarriers for Plant-Derived Natural Compounds**  
BAYRAKTAR O., Erdogan I., KÖSE M. D. , Kalmaz G.  
NANOSTRUCTURES FOR ANTIMICROBIAL THERAPY, pp.395-412, 2017 (Refereed Journals of Other Institutions)
- XV. **OXIDATION OF OREGANO ESSENTIAL OIL USING ZEOLITE-ENCAPSULATED Cr(SALPN) COMPLEX**  
BAYRAKTAR O., GÜNEŞ A.  
Oxidation Communications, vol.40, pp.1275-1281, 2017 (Refereed Journals of Other Institutions)
- XVI. **Antioxidant, antimicrobial and cytotoxic activities of extracts from some selected mediterranean shrub species (Maquis)**  
BAYRAKTAR O., ALTIOK E., YILMAZER Ö., RUSCUKLU D., BUYUKOZ M. Y.  
BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY, vol.6, pp.1437-1444, 2016 (Journal Indexed in ESCI)
- XVII. **Encapsulation of lycopene using electrospraying method**  
KÖSE M. D. , BAYRAKTAR O.  
BIOINTERFACE RESEARCH IN APPLIED CHEMISTRY, vol.6, pp.1417-1421, 2016 (Journal Indexed in ESCI)
- XVIII. **Development of Biosensors for Determination of the Total Antioxidant Capacity of Olive Leaf Extract**  
ÇOBAN S., BAYRAKTAR O.  
International Journal of New Technology and Research, vol.2, pp.52-58, 2016 (Refereed Journals of Other Institutions)
- XIX. **Antioxidant and Antimicrobial Activities of Extracts from Some Selected Mediterranean Plant Species**  
KÖSE M. D. , BAYRAKTAR O., BALTA A. B.  
International Journal of New Technology and Research, vol.2, pp.113-118, 2016 (Refereed Journals of Other Institutions)
- XX. **Extraction of Saponins from Soapnut Sapindus Mukorossi and Their Antimicrobial Properties**  
KÖSE M. D. , BAYRAKTAR O.  
World Journal of Research and Review, vol.2, pp.89-93, 2016 (Refereed Journals of Other Institutions)
- XXI. **Polyelectrolytes Thermodynamics and Rheology Preface**  
Visakh P. M. , Bayraktar O., Alfredo Pico G.  
POLYELECTROLYTES: THERMODYNAMICS AND RHEOLOGY, 2014 (Refereed Journals of Other Institutions)
- XXII. **Teknokentlerde neler üretiliyor DÜAG tanıtımı**  
BAYRAKTAR O.  
ICT Media Dergisi, vol.46, 2012 (National Non-Refereed Journal)
- XXIII. **Çevre Köşesi**  
BAYRAKTAR O.  
MAYDER, Türkiye Madeni Yağ Sanayicileri Derneği, pp.34, 2012 (National Non-Refereed Journal)
- XXIV. **Düag zengin özütlerin profesyonel ve bilimsel üretimi**  
BAYRAKTAR O.  
Telepati, pp.48, 2011 (National Non-Refereed Journal)
- XXV. **Monomer Release from Resin Based Dental Materials Cured With LED and Halogen Lights**  
TOPALOĞLU AK A., ALPOZ A. R. , BAYRAKTAR O., FAHİNUR E.  
The European Journal of Dentistry, vol.4, pp.34-40, 2010 (Refereed Journals of Other Institutions)
- XXVI. **Monomer Release from Resin Based Dental Materials Cured with LED and Halogen Lights**  
TOPALOĞLU AK A., ALPÖZ A. R. , BAYRAKTAR O., ERTUĞRUL F.  
Eur J Dent, vol.4, pp.38-40, 2010 (Refereed Journals of Other Institutions)
- XXVII. **Screening of Some Plant Derived Alkaloids and Phenolics for Catechol O Methyltransferase Inhibition**  
YALÇIN d., BAYRAKTAR O.  
International Journal of Natural and Engineering Sciences, vol.3, pp.23-27, 2009 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- I. **Bio Monomers for Green Polymeric Composite Materials**  
Visakh P. M. (Editor), Bayraktar O. (Editor), Gopalakrishnan M. (Editor)  
John Wiley & Sons, West Sussex, UK , New-Jersey, 2019
- II. **Encapsulated polyphenols and other anticancer compounds derived from plants**  
Köse M. D. , Bayraktar O.  
in: Cancer Therapy Book Series: Herbal Medicine Back to the Future Volume 3, Ferid Murad,Atta-ur-Rahman,Ka  
Bian, Editor, Bentham Science , London, pp.1-10, 2019
- III. **Application of complex coacervates in controlled delivery**  
BAYRAKTAR O., HEİNZ Ö. K. , KÖSE M. D.  
in: Design and Development of New Nanocarriers, Grumezescu Alexandru Mihai, Editor, Elsevier, pp.475-507,  
2018
- IV. **Nanocarriers for Plant-Derived Natural Compounds**  
BAYRAKTAR O., ERDOĞAN İ., KÖSE M. D. , KALMAZ G.  
in: Nanostructures for Antimicrobial Therapy, Fıcaı Anton, Grumezescu Alexandru Mihai, Editor, Elsevier, 2017
- V. **OZONLANMIŞ ZEYTİNYAĞININ YARA İYİLEŞMESİNE ETKİLERİ**  
BAYRAKTAR O., ERDOĞAN İ.  
in: Zeytinyağı ve Sağlık, Eren Akçiçek, Nazan Tuna Oran, Editor, SİDAS, pp.181-186, 2015
- VI. **Polyelectrolyte: Thermodynamics and Rheology**  
P. M., Visakh P. M. , BAYRAKTAR O., Guillermo P.  
Springer, London/Berlin , London, 2014

## Refereed Congress / Symposium Publications in Proceedings

- I. **Bioactive Nanofibers Including Soluble Eggshell Membrane Protein**  
BAYRAKTAR O., KÖSE M. D.  
17.Ulusal 3. Uluslararası Tekstil Teknolojisi ve Kimyasındaki Son Gelişmeler Sempozyumu, 20 - 22 November 2019
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