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Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Turkey 2014 - 2019

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Turkey 2012 - 2014

Undergraduate, Tokat Gaziosmanpaşa University, Fen-Edebiyat, Kimya, Turkey 2004 - 2008

Research Areas

Chemistry

Academic Titles / Tasks

Associate Professor, Inonu University, Fen-Edebiyat Fakültesi, Kimya, 2009 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Fabrication, characterization, and application of laccase-immobilized membranes for acetamiprid and diuron degradation.**
Ulu A., Akkurt Ş., Birhanlı E., Alkan Uçkun A., Uçkun M., Yeşilada Ö., Ateş B.
International journal of biological macromolecules, vol.282, no.Pt 2, pp.136787, 2024 (SCI-Expanded)
- II. **Tire Rubber Based Microplastic Particles Cause Adverse on Quality Parameters of Rainbow Trout Sperm Cells.**
Özgür M. E., Ulu A., Sezer S., Köytepe S., Ateş B.
Bulletin of environmental contamination and toxicology, vol.113, no.4, pp.43, 2024 (SCI-Expanded)
- III. **Evaluation of genotoxic and mitotoxic effects of TAF-loaded chitosan nanoparticles in HepG2 cells.**
Korkmaz Sezer S., Yuksel Ş., Koc A., Ulu A., Ates B.
Drug and chemical toxicology, vol.47, no.5, pp.516-526, 2024 (SCI-Expanded)
- IV. **Alamandin and especially melatonin attenuate pulmonary arterial hypertension induced by monocrotalin.**
Ayik S., Gunata M., Ozhan O., Yildiz A., Vardi N., Sonmez E., Ermis N., Ates N., Kilic E., Noma S. A. A., et al.
Fundamental & clinical pharmacology, 2024 (SCI-Expanded)
- V. **Preparation, characterization of upconverting nanoparticles for uricase immobilization and controlled manipulation of uricase activity by near-infrared light**

Dik G., Noma S. A. A., Ulu A., Topel S. D., Asiltürk M., Ateş B.

JOURNAL OF LUMINESCENCE, vol.271, pp.1-13, 2024 (SCI-Expanded)

- VI. **Immobilization of Xylanase on ZnO nanoparticles obtained by green synthesis from Eupatorium cannabinum L. and its application in enrichment of fruit juices**
Pekdemir S. S., Bakar B., Taş R., Ulu A., Pekdemir M. E., Ateş B.
MOLECULAR CATALYSIS, vol.562, pp.1-13, 2024 (SCI-Expanded)
- VII. **Horseradish Peroxidase Immobilized onto Mesoporous Magnetic Hybrid Nanoflowers for Enzymatic Decolorization of Textile Dyes: A Highly Robust Bioreactor and Boosted Enzyme Stability.**
Bakar B., Akbulut M., Ulusal F., Ulu A., Özdemir N., Ateş B.
ACS omega, vol.9, no.23, pp.24558-24573, 2024 (SCI-Expanded)
- VIII. **Enhancement of enzyme activity by laser-induced energy propulsion of upconverting nanoparticles under near-infrared light: A comprehensive methodology for in vitro and in vivo applications.**
Ateş B., Ulu A., Asiltürk M., Noma S. A. A., Topel S. D., Dik G., Özhan O., Bakar B., Yıldız A., Vardı N., et al.
International journal of biological macromolecules, vol.260, no.Pt 2, pp.129343, 2024 (SCI-Expanded)
- IX. **Unveiling the effect of molecular weight of vanillic acid grafted chitosan hydrogel films on physical, antioxidant, and antimicrobial properties for application in food packaging.**
Bakar B., Pekdemir S. S., Birhanlı E., Ulu A., Pekdemir M. E., Ateş B.
International journal of biological macromolecules, vol.256, no.Pt 1, pp.128397, 2024 (SCI-Expanded)
- X. **Immobilization of Xylanase onto Starch Nanoparticles: A Reusable and Robust Nanobiocatalyst for Juice Clarification**
Dik G., Bakar B., Ulu A., Köytepe S., Ateş B.
STARCH/STAERKE, vol.2300130, no.2300130, pp.1-10, 2023 (SCI-Expanded)
- XI. **Newly Synthesized Multifunctional Biopolymer Coated Magnetic Core/Shell Fe₃O₄@Au Nanoparticles for Evaluation of L-asparaginase Immobilization**
TARHAN T., Dik G., Ulu A., TURAL B., TURAL S., ATEŞ B.
TOPICS IN CATALYSIS, vol.66, no.9-12, pp.577-591, 2023 (SCI-Expanded)
- XII. **Immobilization of alpha-Amylase onto Quantum Dots Prepared from Hypericum perforatum L. Flowers and Hypericum capitatum Seeds: Its Physicochemical and Biochemical Characterization**
Acari I. K., Dik G., Bakar B., Ulu A., ÖNAL Y., ATEŞ B.
TOPICS IN CATALYSIS, vol.66, no.9-12, pp.563-576, 2023 (SCI-Expanded)
- XIII. **Effects of the apricot diets containing sulfur dioxide at different concentrations on rat testicles.**
Yıldız A., Ozhan O., Ulu A., Dogan T., Bakar B., Ugur Y., Taslidere E., Gokbulut İ., Polat S., Parlakpınar H., et al.
Environmental science and pollution research international, vol.30, no.29, pp.74301-74313, 2023 (SCI-Expanded)
- XIV. **A Positive Effect of Magnetic Field on the Catalytic Activity of Immobilized L-Asparaginase: Evaluation of its Feasibility**
Dik G., Ulu A., Inan O. O., ATALAY S., ATEŞ B.
CATALYSIS LETTERS, vol.153, no.5, pp.1250-1264, 2023 (SCI-Expanded)
- XV. **The Cytotoxicity, DNA Fragmentation, and Decreasing Velocity Induced By Chromium(III) Oxide on Rainbow Trout Spermatozoa**
Ozgur M. E., Ulu A., GÜRSES C., Ozcan I., Noma S. A. A., KÖYTEPE S., ATEŞ B.
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.201, no.2, pp.968-983, 2023 (SCI-Expanded)
- XVI. **Tailor-made novel electrospun polycaprolactone/polyethyleneimine fiber membranes for laccase immobilization: An all-in-one material to biodegrade textile dyes and phenolic compounds.**
Kolak S., Birhanlı E., Boran F., Bakar B., Ulu A., Yeşilada Ö., Ateş B.
Chemosphere, vol.313, pp.137478, 2023 (SCI-Expanded)
- XVII. **Effects of taurine and apocynin on the zone of stasis**
Öcük Ö., Firat C., Yıldız A., Vardı N., Ulu A., Noma S. A. A., Parlakpınar H., Özhan O.
BURNS, vol.48, no.8, pp.1850-1862, 2022 (SCI-Expanded)
- XVIII. **Activation of the Mas receptors by AVE0991 and MrgD receptor using Alamandine to limit the deleterious effects of Ang II-induced hypertension**
Tanriverdi L. H., Özhan O., Ulu A., Yıldız A., Ateş B., Vardı N., Acet H. A., Parlakpınar H.

FUNDAMENTAL AND CLINICAL PHARMACOLOGY, vol.1, no. 1, pp.1-15, 2022 (SCI-Expanded)

- XXIX. **Fast Curing Multifunctional Tissue Adhesives of Sericin-Based Polyurethane-Acrylates for Sternal Closure**
Balcioglu S., NOMA S. A. A., Ulu A., Karaaslan-Tunc M. G., ÖZHAN O., KÖYTEPE S., PARLAKPINAR H., VARDI N., ÇOLAK M. C., ATEŞ B.
ACS APPLIED MATERIALS & INTERFACES, 2022 (SCI-Expanded)
- XX. **Design of laccase-metal-organic framework hybrid constructs for biocatalytic removal of textile dyes**
BİRHANLI E., Noma S. A. A., BORAN F., Ulu A., YEŞİLADA Ö., ATEŞ B.
CHEMOSPHERE, vol.292, 2022 (SCI-Expanded)
- XXI. **Eco-friendly chitosan/kappa-carrageenan membranes reinforced with activated bentonite for adsorption of methylene blue**
Ulu A., ALPASLAN M., GÜLTEK A., ATEŞ B.
MATERIALS CHEMISTRY AND PHYSICS, vol.278, 2022 (SCI-Expanded)
- XXII. **Fabrication of electrospun polycaprolactone/chitosan nanofiber-modified screen-printed electrode for highly sensitive detection of diazinon in food analysis**
Topsoy O. K., Muhammad F., Kolak S., Ulu A., GÜNGÖR Ö., ŞİMŞEK M., KÖYTEPE S., ATEŞ B.
MEASUREMENT, vol.187, 2022 (SCI-Expanded)
- XXIII. **Preparation, Controlled Drug Release, and Cell Viability Evaluation of Tenofovir Alafenamide-Loaded Chitosan Nanoparticles**
Ulu A., Sezer S. K., YÜKSEL Ş., KOÇ A., ATEŞ B.
STARCH-STARKE, 2021 (SCI-Expanded)
- XXIV. **Fabrication of Oleic Acid Grafted Starch-based Hybrid Carriers for l-Asparaginase Encapsulation**
Hafizosmanoglu G., Ulu A., KÖYTEPE S., ATEŞ B.
STARCH-STARKE, 2021 (SCI-Expanded)
- XXV. **Tunable and tough porous chitosan/beta-cyclodextrin/tannic acid biocomposite membrane with mechanic, antioxidant, and antimicrobial properties**
Ulu A., BİRHANLI E., ATEŞ B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.188, pp.696-707, 2021 (SCI-Expanded)
- XXVI. **Preparation and Characterization of Amino-Functionalized Zeolite/SiO₂ Materials for Trypsin-Chymotrypsin Co-immobilization**
Dogan D., Sezer S., Ulu A., KÖYTEPE S., ATEŞ B.
CATALYSIS LETTERS, vol.151, no.8, pp.2463-2477, 2021 (SCI-Expanded)
- XXVII. **Tailor-made shape memory stents for therapeutic enzymes: A novel approach to enhance enzyme performance**
Ulu A., ATEŞ B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.185, pp.966-982, 2021 (SCI-Expanded)
- XXVIII. **alpha-Amylase Immobilization on P(HEMA-co-PEGMA) Hydrogels: Preparation, Characterization, and Catalytic Investigation**
Dogan D., Ulu A., Sel E., KÖYTEPE S., ATEŞ B.
STARCH-STARKE, vol.73, no.7-8, 2021 (SCI-Expanded)
- XXIX. **Preparation, characterization, and in vitro release study of vincristine sulfate-loaded chitosan-polyethylene glycol-oleic acid composites**
Bakmaz D., Ulu A., KÖYTEPE S., ATEŞ B.
INTERNATIONAL JOURNAL OF POLYMER ANALYSIS AND CHARACTERIZATION, vol.26, no.4, pp.291-308, 2021 (SCI-Expanded)
- XXX. **Comparative study of catalase immobilization via adsorption on P(MMA-co-PEG500MA) structures as an effective polymer support**
Sel E., Ulu A., ATEŞ B., KÖYTEPE S.
POLYMER BULLETIN, vol.78, no.5, pp.2663-2684, 2021 (SCI-Expanded)
- XXXI. **Development of L-asparaginase@hybrid Nanoflowers (ASNase@HNFs) Reactor System with Enhanced Enzymatic Reusability and Stability**

- Noma S. A. A., Yilmaz B. S., Ulu A., ÖZDEMİR N., ATEŞ B.
CATALYSIS LETTERS, vol.151, no.4, pp.1191-1201, 2021 (SCI-Expanded)
- XXXII. **L-asparaginase immobilized p(HEMA-GMA) cryogels: A recent study for biochemical, thermodynamic and kinetic parameters**
Noma S. A. A., Acet O., Ulu A., Onal B., ODABAŞI M., ATEŞ B.
POLYMER TESTING, vol.93, 2021 (SCI-Expanded)
- XXXIII. **Chitosan/polypropylene glycol hydrogel composite film designed with TiO₂ nanoparticles: A promising scaffold of biomedical applications**
Ulu A., BİRHANLI E., KÖYTEPE S., ATEŞ B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.163, pp.529-540, 2020 (SCI-Expanded)
- XXXIV. **Preparation and characterization of amino and carboxyl functionalized core-shell Fe₃O₄/SiO₂ for L-asparaginase immobilization: A comparison study**
Noma S. A. A., Ulu A., KÖYTEPE S., ATEŞ B.
BIOCATALYSIS AND BIOTRANSFORMATION, vol.38, no.5, pp.392-404, 2020 (SCI-Expanded)
- XXXV. **Chemistry, Structures, and Advanced Applications of Nanocomposites from Biorenewable Resources**
Ates B., Koytepe S., Ulu A., Gurses C., Thakur V.
CHEMICAL REVIEWS, vol.120, no.17, pp.9304-9362, 2020 (SCI-Expanded)
- XXXVI. **The Carboxylated Multi-walled Carbon Nanotubes/l-Asparaginase Doped Calcium-Alginate Beads: Structural and Biocatalytic Characterization**
Ulu A., KARAMAN M., Yapici F., NAZ M., Sayin S., Saygili E. I., ATEŞ B.
CATALYSIS LETTERS, vol.150, no.6, pp.1679-1691, 2020 (SCI-Expanded)
- XXXVII. **Laccase-conjugated thiolated chitosan-Fe₃O₄ hybrid composite for biocatalytic degradation of organic dyes**
Ulu A., BİRHANLI E., BORAN F., KÖYTEPE S., YEŞİLADA Ö., ATEŞ B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.150, pp.871-884, 2020 (SCI-Expanded)
- XXXVIII. **Metal-organic frameworks (MOFs): a novel support platform for ASNase immobilization**
Ulu A.
JOURNAL OF MATERIALS SCIENCE, vol.55, no.14, pp.6130-6144, 2020 (SCI-Expanded)
- XXXIX. **Melatonin protects sperm cells of Capoeta trutta from toxicity of titanium dioxide nanoparticles**
Ozgur M. E., Ulu A., Noma S. A. A., Ozcan I., Balcioglu S., ATEŞ B., KÖYTEPE S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.27, no.15, pp.17843-17853, 2020 (SCI-Expanded)
- XL. **Comparative study of ASNase immobilization on tannic acid-modified magnetic Fe₃O₄/SBA-15 nanoparticles to enhance stability and reusability**
Noma S. A. A., Ulu A., Acet O., Sanz R., Sanz-Perez E. S., ODABAŞI M., ATEŞ B.
NEW JOURNAL OF CHEMISTRY, vol.44, no.11, pp.4440-4451, 2020 (SCI-Expanded)
- XLI. **Maltose functionalized magnetic core/shell Fe₃O₄@Au nanoparticles for an efficient L-asparaginase immobilization**
TARHAN T., Ulu A., Saricam M., ÇULHA M., ATEŞ B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.142, pp.443-451, 2020 (SCI-Expanded)
- XLII. **Investigation of toxic effects of amorphous SiO₂ nanoparticles on motility and oxidative stress markers in rainbow trout sperm cells**
Ozgur M. E., Ulu A., Ozcan I., Balcioglu S., ATEŞ B., KÖYTEPE S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, no.15, pp.15641-15652, 2019 (SCI-Expanded)
- XLIII. **Chloro-Modified Magnetic Fe₃O₄@MCM-41 Core-Shell Nanoparticles for L-Asparaginase Immobilization with Improved Catalytic Activity, Reusability, and Storage Stability**
Ulu A., Noma S. A. A., KÖYTEPE S., ATEŞ B.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.187, no.3, pp.938-956, 2019 (SCI-Expanded)
- XLIV. **Sensors: Natural Polymeric Composites**
Ulu A., ATEŞ B.
ENCYCLOPEDIA OF POLYMER APPLICATIONS, VOLS I-III, pp.2306-2327, 2019 (SCI-Expanded)
- XLV. **The Toxicity Assessment of Iron Oxide (Fe₃O₄) Nanoparticles on Physical and Biochemical Quality of**

Rainbow Trout Spermatozoon

Ozgun M. E., Ulu A., Balcioglu S., Ozcan I., KÖYTEPE S., ATEŞ B.
TOXICS, vol.6, no.4, 2018 (SCI-Expanded)

- XLVI. **Chitosan/Polyvinylpyrrolidone/MCM-41 Composite Hydrogel Films: Structural, Thermal, Surface, and Antibacterial Properties**
ULU A., NOMA S. A. A., GÜRSES C., KÖYTEPE S., ATEŞ B.
STARCH-STARKE, vol.70, 2018 (SCI-Expanded)
- XLVII. **Poly(2-hydroxyethyl methacrylate)/boric acid composite hydrogel as soft contact lens material: Thermal, optical, rheological, and enhanced antibacterial properties**
ULU A., BALCIOGLU S., BİRHANLI E., SARIMESELI A., KESKİN R., KÖYTEPE S., ATEŞ B.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.135, no.35, 2018 (SCI-Expanded)
- XLVIII. **The in vitro toxicity analysis of titanium dioxide (TiO₂) nanoparticles on kinematics and biochemical quality of rainbow trout sperm cells**
Ozgun M. E., Balcioglu S., Ulu A., Ozcan I., Okumus F., KÖYTEPE S., ATEŞ B.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.62, pp.11-19, 2018 (SCI-Expanded)
- XLIX. **Design of epoxy-functionalized Fe₃O₄@MCM-41 core-shell nanoparticles for enzyme immobilization**
Ulu A., Ozcan I., KÖYTEPE S., ATEŞ B.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.115, pp.1122-1130, 2018 (SCI-Expanded)
- L. **Investigation of Toxicity Properties of Flower-like ZnO Nanoparticles on Cyprinus carpio Sperm Cells Using Computer-Assisted Sperm Analysis (CASA)**
Ozgun M. E., ULU A., BALCIOGLU S., OZCAN I., Okumus F., KÖYTEPE S., ATEŞ B.
TURKISH JOURNAL OF FISHERIES AND AQUATIC SCIENCES, vol.18, no.6, pp.771-780, 2018 (SCI-Expanded)
- LI. **Magnetic-propelled Fe₃O₄-chitosan carriers enhance L-asparaginase catalytic activity: a promising strategy for enzyme immobilization**
ATEŞ B., ULU A., KÖYTEPE S., ALI NOMA S. A., KOLAT V. S., İZGİ T.
RSC ADVANCES, vol.8, no.63, pp.36063-36075, 2018 (SCI-Expanded)
- LII. **Magnetic Fe₃O₄@MCM-41 core-shell nanoparticles functionalized with thiol silane for efficient L-asparaginase immobilization**
Ulu A., Noma S. A. A., KÖYTEPE S., ATEŞ B.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.46, pp.1035-1045, 2018 (SCI-Expanded)
- LIII. **Immobilization of L-Asparaginase on Carrier Materials: A Comprehensive Review**
Ulu A., ATEŞ B.
BIOCONJUGATE CHEMISTRY, vol.28, no.6, pp.1598-1610, 2017 (SCI-Expanded)
- LIV. **Biomedical applications of hybrid polymer composite materials**
ATEŞ B., KÖYTEPE S., Balcioglu S., Ulu A., GÜRSES C.
HYBRID POLYMER COMPOSITE MATERIALS: APPLICATIONS, pp.343-408, 2017 (SCI-Expanded)
- LV. **Design of starch functionalized biodegradable P(MAA-co-MMA) as carrier matrix for L-asparaginase immobilization**
ULU A., KÖYTEPE S., ATEŞ B.
CARBOHYDRATE POLYMERS, vol.153, pp.559-572, 2016 (SCI-Expanded)
- LVI. **Synthesis and characterization of biodegradable PHEMA-starch composites for immobilization of L-asparaginase**
ULU A., KÖYTEPE S., ATEŞ B.
POLYMER BULLETIN, vol.73, no.7, pp.1891-1907, 2016 (SCI-Expanded)
- LVII. **Synthesis and characterization of PMMA composites activated with starch for immobilization of L-asparaginase**
ULU A., KÖYTEPE S., ATEŞ B.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.133, no.19, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Manyetik Kantilever ile IgG antikorlarının tespiti**
Orçun İnan O., Dik G., ULU A., ATEŞ B., ATALAY S.
Sinop Üniversitesi Fen Bilimleri Dergisi, vol.8, no.2, pp.134-144, 2023 (Peer-Reviewed Journal)
- II. **Effects of drugs commonly used in Sars-CoV-2 infection on renal tissue in rats**
Yıldız A., Ozhan O., Vardi N., AKYÜZ M., BAKAR B., ULU A., Taslidere E., KÜÇÜKAKÇALI Z., Ates B., Parlakpınar H.
Annals of Medical Research, vol.30, no.10, pp.1209-1216, 2023 (Peer-Reviewed Journal)
- III. **Synthesis and Biomedical Applications of Polymer-Functionalized Magnetic Nanoparticles**
Dik G., ULU A., ATEŞ B.
NANOFABRICATION, vol.8, 2023 (ESCI)
- IV. **The protective effect of naringenin on ciprofloxacin-induced cardiovascular toxicity in rats**
Ulutaş Z., Kurutkan S., Özhan O., Yıldız A., Ulu A., Şahin Büyükkorkmaz L., Vardı N., Ateş B., Parlakpınar H.
ScopeMed, vol.4, 2023 (Peer-Reviewed Journal)
- V. **Effects of mirtazapine on cisplatin cardiotoxicity in rats**
ÖZHAN O., ULUTAŞ Z., Serduman S., ŞAHİN BÜYÜKKORKMAZ L., YILDIZ A., ULU A., VARDI N., ATEŞ B.,
PARLAKPINAR H.
Medicine Science, vol.12, no.2, pp.579-586, 2023 (Peer-Reviewed Journal)
- VI. **Preparation of Allantoin Loaded Chitosan Nanoparticles and Influence of Molecular Weight of Chitosan on Drug Release**
ULU A.
İnönü üniversitesi Sağlık Hizmetleri Meslek Yüksek Okulu Dergisi, vol.8, no.3, pp.725-740, 2020 (Peer-Reviewed Journal)
- VII. **The Effect of Heat Treatment on Sugar, HMF and Antioxidant Properties of Honey Obtained from Different Regions in Turkey**
Karlıdag S., Basgel S., Ulu A., Karadol G., Ugur Y., YILMAZTEKİN M., ATEŞ B., ERDOĞAN S.
Journal of Apitherapy and Nature, vol.1, no.2, pp.32-45, 2018 (Peer-Reviewed Journal)
- VIII. **Yenilenebilir Kaynaklı Poliüretan Kompozitler**
Ulu A., GÜRSES C., ATEŞ B., Balcioğlu S., KÖYTEPE S.
Putech & Composites Magazine (Poliüretan Sanayi Dergisi), vol.7, pp.14-26, 2015 (Non Peer-Reviewed Journal)
- IX. **Sevgi Balcioğlu, Yenilenebilir Kaynak Olarak Bitkisel Yağlardan Poliöl Eldesi**
ATEŞ B., KÖYTEPE S., ULU A., BALCIOĞLU S.
Putech ? Composites, vol.7, no.25, pp.10-16, 2015 (Non Peer-Reviewed Journal)

Books & Book Chapters

- I. **Medicinal and Biological Application of Magnetic Alloy Nanoparticles and Their Polymer Nanocomposites**
Dik G., Ulu A., Ateş B.
in: Handbook of Magnetic Hybrid Nanoalloys and their Nanocomposites, Sabu Thomas (Editor-in-Chief), Amirsadegh Rezazadeh Nochehdehi (Editor-in-Chief), Editor, Springer, London/Berlin, London, pp.1-27, 2022
- II. **Functionalized Magnetic Nanoparticle-based Sensors for Point-of-care Applications: From the Preparation to Practical Applications**
, Ulu A., Ateş B.
in: Analytical Applications of Functionalized Magnetic Nanoparticles, Chaudhery Mustansar Hussain, Editor, Royal Society of Chemistry, London, pp.454-488, 2021
- III. **Sensors: Natural Polymeric Composites**
ULU A., ATEŞ B.
in: Encyclopedia of Polymer Applications, Mishra, Munmaya, Editor, Taylor Francis Group, pp.2306-2327, 2019

IV. Biomedical applications of hybrid polymer composite materials

ATEŞ B., KÖYTEPE S., Balcioglu S., Ulu A., GÜRSES C.

in: Hybrid Polymer Composite Materials Applications, Vijay Kumar Thakur, Editor, Elsevier Science, Oxford/Amsterdam , Cambridge, pp.343-408, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Alamandin, Melatonin ve Alamandin-Melatonin Kombinasyonunun Monokrotalin ile indüklenmiş Pulmoner Arteriyel Hıgertansiyon Sıçan Mosdelindeki Biyokimyasal Etkileri**
POLAT S., GÜNATA M., ÖZHAN O., ATEŞ ÖZSOY N., KILIÇ E., NOMA S. A. A., ULU A., İNAN S. T., ACET H. A., PARLAKPINAR H.
Uluslararası Maldia Sağlık Bilimleri Kongresi, Malatya, Turkey, 14 - 16 October 2022
- II. **Immobilization of L-ASNase on clay minerals for biocatalysts applications**
ULU A.
International Eurasian Conference on Biotechnology and Biochemistry (BioTechBioChem 2020), Turkey, 16 December 2020
- III. **Organic-Inorganic Hybrid Carriers for Enzyme Immobilization**
ULU A.
3RD INTERNATIONAL CONFERENCE ON PHYSICAL CHEMISTRY & FUNCTIONAL MATERIALS PCFM-2020, 22 September 2020
- IV. **Synthesis of Boronic Acid/Peg-Functionalized Magnetic Nanoparticles for Enzyme Immobilization**
Dik G., ULU A., ATEŞ B.
3RD INTERNATIONAL CONFERENCE ON PHYSICAL CHEMISTRY & FUNCTIONAL MATERIALS PCFM-2020, 22 September 2020
- V. **Synthesis and characterization of functionalized magnetic core/shell Fe₃O₄@Au nanoparticles for used to immobilization L-asparaginase enzyme**
ULU A., ATEŞ B., TARHAN T.
3rd International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2020), 19 - 20 March 2020
- VI. **Preparation and characterization of carboxyl functionalized core-shell Fe₃O₄/SiO₂ for L-asparaginase immobilization**
Noma S. A. A., ULU A., KÖYTEPE S., ATEŞ B.
2nd International Congress on Analytical and Bioanalytical Chemistry (2nd ICABC 2020), 11 - 14 March 2020
- VII. **Preparation and Optimization of Alginate Microbeads Loaded with Vincristine Sulfate and Its In vitro Release**
ULU A.
2nd International Congress on Analytical and Bioanalytical Chemistry (2nd ICABC 2020), Turkey, 11 - 14 March 2020
- VIII. **Fast Curable and Bio-inspired Surgical Adhesives for Sternal Closure: Eliminates Disadvantages of Steel Wire**
BALCIOĞLU S., ULU A., NOMA S. A. A., KÖYTEPE S., PARLAKPINAR H., ÖZHAN O., ÇOLAK M. C., YILDIZ A., VARDI N., ATEŞ B.
Uluslararası Biyoteknoloji Kongresi, İstanbul, Turkey, 5 - 07 March 2020
- IX. **TİKAGRELORUN SIÇANLARDA KARDİOVASKÜLER SİSTEM ÜZERİNDE YAPTIĞI DEĞİŞİKLİKLERİN ARAŞTIRILMASI**
GÜLHAN B., ERMİŞ N., GÜNATA M., ÖZHAN O., PARLAKPINAR H., VARDI N., YILDIZ A., ULU A., ATEŞ B., YAŞAR Ş., et al.
1. ULUSLARARASI BATTALGAZİ MULTİ DİSİPLİNER ÇALIŞMALAR KONGRESİ, 7 - 09 December 2018
- X. **Sternal Kapamada Kullanılmak üzere Jelatin İçeren UV-Kürlenabilir Poliüretan-Akrilat Sert Doku Yapıştırıcıların Geliştirilmesi**

ATEŞ B., KÖYTEPE S., BALCIOĞLU S., ULU A., Noma S. A. A., Özcan İ.

23. Biyomedikal Bilim ve Teknoloji Sempozyumu, Turkey, 15 - 16 December 2018

- XI. **Tikagrelorün Sıçanlarda Kardiyovasküler Üzerinde Yaptığı Değişikliklerin Araştırılması**
Gülhan B., ERMİŞ N., Günata M., ÖZHAN O., PARLAKPINAR H., VARDI N., YILDIZ A., ULU A., ATEŞ B., YAŞAR Ş., et al.
1. Uluslararası Battalgazi Multidisipliner Çalışmalar Kongresi, Turkey, 7 - 09 December 2018
- XII. **Magnetic Field Enhances Catalytic Activity of L-Asparaginase Conjugated on Fe₃O₄-Chitosan Nanoparticles**
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SANKO University Innovation in Medicine Summit-4, 11 - 13 October 2018
- XIII. **Preparation of Sericin Based UV-Curing Multifunctional Polyurethane Tissue Adhesives**
BALCIOĞLU S., ULU A., Noma S. A. A., GÜRSES C., Karaaslan M. G., KÖYTEPE S., ATEŞ B.
SANKO University Innovation in Medicine Summit-4, 11 - 13 October 2018
- XIV. **The in vitro Effects of Silica Nanoparticles on Motility Parameters in Rainbow Trout Sperm Cells**
ÖZGÜR M. E., ULU A., Özcan İ., BALCIOĞLU S., ATEŞ B., KÖYTEPE S.
3rd National/1st International Workshop on Gamete Biology in Aquaculture, 19 - 21 September 2018
- XV. **Effects of Silica on the Morphology, Structure and Properties of Starch/Poly(vinyl Pyrrolidone) Blends**
Noma S. A. A., ULU A., KÖYTEPE S., ATEŞ B.
VII. Polymer Science and Technology Congress with International Participation, 9 - 12 September 2018
- XVI. **Yapıştırma Süresi Kontrol Edilebilen ve Güçlü Yapıştırıcı Özelliğe Sahip Kollajen İçeren Polimerik Biyoyapıştırıcıların Hazırlanması**
ATEŞ B., KÖYTEPE S., Karaaslan M. G., BALCIOĞLU S., ULU A.
VII. Polymer Science and Technology Congress with International Participation, 9 - 12 September 2018
- XVII. **Chloro-Functionalized Magnetic Fe₃O₄@MCM-41 Core-Shell Nanoparticles for Enzyme Immobilization**
ULU A., Noma S. A. A., KÖYTEPE S., ATEŞ B.
International Conference on Physical Chemistry and Functional Materials (PCFM'18), 19 - 21 June 2018
- XVIII. **L-Asparaginase Immobilization On Amino Functionalized Fe₃O₄@SiO₂ Magnetic Nanoparticles**
Noma S. A. A., ULU A., KÖYTEPE S., ATEŞ B.
International Conference on Physical Chemistry and Functional Materials(PCFM'18), 19 - 21 June 2018
- XIX. **Synthesis and Characterization of Isophorone Diisocyanate (IPDI), Gelatin and PEG200-Based Polyurethane-Acrylate Adhesives**
BALCIOĞLU S., Karaaslan M. G., ULU A., KÖYTEPE S., ATEŞ B.
International Conference on Physical Chemistry and Functional Materials (PCFM'18), Turkey, 19 - 21 June 2018
- XX. **Surface Modification of MCM-41-Coated Magnetite Nanoparticles for Covalent Immobilization of L-Asnase**
Karaaslan M. G., BALCIOĞLU S., ULU A., Özcan İ., KÖYTEPE S., ATEŞ B.
International Participation 6th Pharmaceutical Chemistry: Congress on the Design, Synthesis, Production and Standardization of Drug Active Ingredients, Turkey, 22 - 25 March 2018
- XXI. **Serisin Temelli Poliüretan-Akrilat Sert Doku Yapıştırıcılarının Hazırlanması**
Karaaslan M. G., BALCIOĞLU S., ULU A., Özcan İ., KÖYTEPE S., ATEŞ B.
International Participation 6th Pharmaceutical Chemistry: Congress on the Design, Synthesis, Production and Standardization of Drug Active Ingredients, 22 - 25 March 2018
- XXII. **Jelatin İçeren Poliüretan-Akrilat Kemik Yapıştırıcılarında Polietilen Glikol (PEG) Moleküler Ağırlığının Yapıştırıcı Güce Etkisi**
Karaaslan M. G., BALCIOĞLU S., ULU A., Özcan İ., KÖYTEPE S., ATEŞ B.
International Participation 6th Pharmaceutical Chemistry: Congress on the Design, Synthesis, Production and Standardization of Drug Active Ingredients, 22 - 25 March 2018
- XXIII. **UV ile Kürlenmiş Doku Yapıştırıcılarında Çapraz Bağlanma Yoğunluğunun Yapıştırıcı Güce Etkisi**
Karaaslan M. G., BALCIOĞLU S., ULU A., Özcan İ., KÖYTEPE S., ATEŞ B.
International Participation 6th Pharmaceutical Chemistry: Congress on the Design, Synthesis, Production and

Standardization of Drug Active Ingredients, 22 - 25 March 2018

- XXIV. **Farklı Oranda Hidroksil Uç Gruba Sahip UV Kürlenebilen Poliüretan Temelli Doku Yapıştırıcılarının Hazırlanması**
Karaaslan M. G., BALCIOĞLU S., ULU A., Özcan İ., KÖYTEPE S., ATEŞ B.
International Participation 6th Pharmaceutical Chemistry: Congress on the Design, Synthesis, Production and Standardization of Drug Active Ingredients, 22 - 25 March 2018
- XXV. **Preparation, Thermal, Optical and Rheological Properties of PHEMA/BA Composite Hydrogels**
ULU A., KÖYTEPE S., SARIMEŞELİ PAÇACI A., ATEŞ B.
29th General Chemistry Congress, Turkey, 10 - 14 September 2017
- XXVI. **PHEMA/BA Kompozit Hidrojellerinin Hazırlanması, Termal, Optik ve Reolojik Özelliklerinin İncelenmesi**
ULU A., KÖYTEPE S., SARIMEŞELİ PAÇACI A., ATEŞ B.
29. Ulusal Kimya Kongresi, Turkey, 10 - 14 September 2017, pp.201
- XXVII. **Immobilization of L-Asparaginase on PHEMA/Starch Biocomposite: A Recoverable Biocatalyst For L-Asparagine Removal**
ULU A., KÖYTEPE S., ATEŞ B.
SANKO University Innovation in Medicine Summit-3, 11 - 13 May 2017, pp.66
- XXVIII. **Biyobenzer Tasarımlar İçeren Poliüretan Temelli Doku Yapıştırıcı Dizaynı Ve Uygulaması**
ATEŞ B., KÖYTEPE S., BALCIOĞLU S., KARAASLAN M. G., ULU A.
Uluslararası Katılımlı 5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, 30 March 2017
- XXIX. **Immobilization of L-asparaginase onto PMMA Composites Activated with Starch**
ULU A., KÖYTEPE S., ATEŞ B.
46th IUPAC World Polymer Congress (MACRO 2016), Turkey, 17 July 2016
- XXX. **Preparation, characterization and antibacterial study of PHEMA (soft contact lens) hydrogel incorporated with boric acid**
ULU A., KESKİN R., BİRHANLI E., BALCIOĞLU S., KÖYTEPE S., ATEŞ B.
MACRO 2016 - 46th IUPAC WORLD POLYMER CONGRESS, İstanbul, Turkey, 17 - 21 July 2016, pp.211-212
- XXXI. **Preparation, characterization and antibacterial study of PHEMA (soft contact lens) hydrogel incorporated with boric acid**
ULU A., KESKİN R., BİRHANLI E., BALCIOĞLU S., KÖYTEPE S., ATEŞ B.
MACRO 2016 - 46th IUPAC WORLD POLYMER CONGRESS, İstanbul, Turkey, 17 - 21 July 2016, pp.211-212
- XXXII. **Preparation, characterization and antibacterial study of PHEMA (soft contact lens) hydrogel incorporated with boric acid**
ULU A., KESKİN R., BİRHANLI E., BALCIOĞLU S., KÖYTEPE S., ATEŞ B.
MACRO 2016 - 46th IUPAC WORLD POLYMER CONGRESS, İstanbul, Turkey, 17 - 21 July 2016, pp.211-212
- XXXIII. **Characterization and Immobilization of L-asparaginase, A Chemotherapeutic Agent, onto PHEMA/starch Biocomposites**
ULU A., KÖYTEPE S., ATEŞ B.
European Polymer Congress, 21 - 26 June 2015
- XXXIV. **The Effect of Heat-Treatment on Antioxidant Properties of Honey Obtained from Different Region in Turkey**
Ulu A., Balcıoğlu S., Başgel S., KARLIDAĞ S., ERDOĞAN S., ATEŞ B.
47th IUPAC GENERAL ASSEMBLY, İstanbul, Turkey, 8 - 15 August 2013, pp.115-118

Supported Projects

ATEŞ B., ULU A., BAKAR B., ASİLTÜRK ERSOY M., Project Supported by Higher Education Institutions, Manyetofloresan (UCNP@Fe3O4/CQD) Nanopartiküllerin Hazırlanması Enzimler için Çift Yönlü İndüklenebilir Taşıyıcı Sistemlerin Geliştirilmesi, 2024 - Continues

ULU A., ŐŐLÖĐLU K., EKEN B., Project Supported by Higher Education Institutions, Probiyotik İeren NiŐasta Temelli Elektroėirilmiş Nanofiberlerin Hazırlanması ve Karakterizasyonu, 2024 - Continues

ATALAY S., KOLAT V. S., ATEŐ B., ULU A., DİK G., Project Supported by Higher Education Institutions, Manyetoelektrik ve elektromanyetik nanoparacıkların etimi manyetik zelliklerinin incelenmesi ve bunların beyin sinyalini algılamaya ynelik zelliklerinin geliŐtirilmesi, 2024 - Continues

KARATAŐ T., TİMURKAAN N., BİLGE D., ATEŐ B., GÖKTÖRK N., KARABULUT B., ULU A., KARADAŐ GEDİK K., KARATAŐ M., TÖRKÖZ Y., et al., Project Supported by Higher Education Institutions, Farklı ieriklere sahip biyolojik olarak emilebilir ve doku uyumlu membranların tasarımı ve intraabdominal adezyon rat modelinde nleyici etkinliklerinin araŐtırılması, 2024 - Continues

Patent

Parlakpınar H., AteŐ B., Ulu A., Vardı N., DEVELOPMENT OF ENZYME CARRIER SYSTEMS WITH ACTIVITY TRIGGERED BY NEAR INFRARED LIGHT (NIR) (Uluslararası), Patent, CHAPTER A Human Needs, The Invention Registration Number: 2021/017608 , Standard Registration, 2021

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