

## Doç. Dr. AHMET ULU

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2014 - 2019

Yüksek Lisans, İnönü Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2012 - 2014

Lisans, Tokat Gaziosmanpaşa Üniversitesi, Fen-Edebiyat, Kimya, Türkiye 2004 - 2008

### Araştırma Alanları

Kimya

### Akademik Unvanlar / Görevler

Doç. Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, 2009 - Devam Ediyor

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. Fabrication, characterization, and application of laccase-immobilized membranes for acetamiprid and diuron degradation.**  
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- II. Tire Rubber Based Microplastic Particles Cause Adverse on Quality Parameters of Rainbow Trout Sperm Cells.**  
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- III. Evaluation of genotoxic and mitotoxic effects of TAF-loaded chitosan nanoparticles in HepG2 cells.**  
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- IV. Alamandin and especially melatonin attenuate pulmonary arterial hypertension induced by monocrotalin.**  
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- V. Preparation, characterization of upconverting nanoparticles for uricase immobilization and controlled manipulation of uricase activity by near-infrared light**

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- VI. **Immobilization of Xylanase on ZnO nanoparticles obtained by green synthesis from Eupatorium cannabinum L. and its application in enrichment of fruit juices**  
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- VII. **Horseradish Peroxidase Immobilized onto Mesoporous Magnetic Hybrid Nanoflowers for Enzymatic Decolorization of Textile Dyes: A Highly Robust Bioreactor and Boosted Enzyme Stability.**  
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- 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.**  
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- 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.**  
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- X. **Immobilization of Xylanase onto Starch Nanoparticles: A Reusable and Robust Nanobiocatalyst for Juice Clarification**  
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- XI. **Newly Synthesized Multifunctional Biopolymer Coated Magnetic Core/Shell Fe<sub>3</sub>O<sub>4</sub>@Au Nanoparticles for Evaluation of L-asparaginase Immobilization**  
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- 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.  
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- XIII. **Effects of the apricot diets containing sulfur dioxide at different concentrations on rat testicles.**  
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- 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.  
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- XV. **The Cytotoxicity, DNA Fragmentation, and Decreasing Velocity Induced By Chromium(III) Oxide on Rainbow Trout Spermatozoa**  
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- XVI. **Tailor-made novel electrospun polycaprolactone/polyethyleneimine fiber membranes for laccase immobilization: An all-in-one material to biodegrade textile dyes and phenolic compounds.**  
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- XVII. **Effects of taurine and apocynin on the zone of stasis**  
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- 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.

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- XXI. **Fast Curing Multifunctional Tissue Adhesives of Sericin-Based Polyurethane-Acrylates for Sternal Closure**  
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- XXII. **Design of laccase-metal-organic framework hybrid constructs for biocatalytic removal of textile dyes**  
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- XXIII. **Eco-friendly chitosan/kappa-carrageenan membranes reinforced with activated bentonite for adsorption of methylene blue**  
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- XXIV. **Fabrication of electrospun polycaprolactone/chitosan nanofiber-modified screen-printed electrode for highly sensitive detection of diazinon in food analysis**  
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- XXV. **Preparation, Controlled Drug Release, and Cell Viability Evaluation of Tenofovir Alafenamide-Loaded Chitosan Nanoparticles**  
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- XXVI. **Fabrication of Oleic Acid Grafted Starch-based Hybrid Carriers for L-Asparaginase Encapsulation**  
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- XXVII. **Tunable and tough porous chitosan/beta-cyclodextrin/tannic acid biocomposite membrane with mechanic, antioxidant, and antimicrobial properties**  
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- XXVIII. **Preparation and Characterization of Amino-Functionalized Zeolite/SiO<sub>2</sub> Materials for Trypsin-Chymotrypsin Co-immobilization**  
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- XXIX. **Tailor-made shape memory stents for therapeutic enzymes: A novel approach to enhance enzyme performance**  
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- XXX. **alpha-Amylase Immobilization on P(HEMA-co-PEGMA) Hydrogels: Preparation, Characterization, and Catalytic Investigation**  
Dogan D., Ulu A., Sel E., KÖYTEPE S., ATEŞ B.  
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- XXXI. **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.  
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- XXXII. **Comparative study of catalase immobilization via adsorption on P(MMA-co-PEG500MA) structures as an effective polymer support**  
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- XXXIII. **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.  
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- 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.  
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- XXXIII. **Chitosan/polypropylene glycol hydrogel composite film designed with TiO<sub>2</sub> nanoparticles: A promising scaffold of biomedical applications**  
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- XXXIV. **Preparation and characterization of amino and carboxyl functionalized core-shell Fe<sub>3</sub>O<sub>4</sub>/SiO<sub>2</sub> for L-asparaginase immobilization: A comparison study**  
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- XXXV. **Chemistry, Structures, and Advanced Applications of Nanocomposites from Biorenewable Resources**  
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- XXXVI. **The Carboxylated Multi-walled Carbon Nanotubes/l-Asparaginase Doped Calcium-Alginate Beads: Structural and Biocatalytic Characterization**  
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- XXXVII. **Laccase-conjugated thiolated chitosan-Fe<sub>3</sub>O<sub>4</sub> hybrid composite for biocatalytic degradation of organic dyes**  
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- XXXVIII. **Metal-organic frameworks (MOFs): a novel support platform for ASNase immobilization**  
Ulu A.  
JOURNAL OF MATERIALS SCIENCE, cilt.55, sa.14, ss.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.  
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- XL. **Comparative study of ASNase immobilization on tannic acid-modified magnetic Fe<sub>3</sub>O<sub>4</sub>/SBA-15 nanoparticles to enhance stability and reusability**  
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- XLI. **Maltose functionalized magnetic core/shell Fe<sub>3</sub>O<sub>4</sub>@Au nanoparticles for an efficient L-asparaginase immobilization**  
TARHAN T., Ulu A., Saricam M., ÇULHA M., ATEŞ B.  
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- XLII. **Investigation of toxic effects of amorphous SiO<sub>2</sub> nanoparticles on motility and oxidative stress markers in rainbow trout sperm cells**  
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- XLIII. **Chloro-Modified Magnetic Fe<sub>3</sub>O<sub>4</sub>@MCM-41 Core-Shell Nanoparticles for L-Asparaginase Immobilization with Improved Catalytic Activity, Reusability, and Storage Stability**  
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- XLIV. **Sensors: Natural Polymeric Composites**  
Ulu A., ATEŞ B.  
ENCYCLOPEDIA OF POLYMER APPLICATIONS, VOLS I-III, ss.2306-2327, 2019 (SCI-Expanded)
- XLV. **The Toxicity Assessment of Iron Oxide (Fe<sub>3</sub>O<sub>4</sub>) Nanoparticles on Physical and Biochemical Quality of**

### **Rainbow Trout Spermatozoon**

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TOXICS, cilt.6, sa.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.  
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- XLVII. **Poly(2-hydroxyethyl methacrylate)/boric acid composite hydrogel as soft contact lens material: Thermal, optical, rheological, and enhanced antibacterial properties**  
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- XLVIII. **The in vitro toxicity analysis of titanium dioxide (TiO<sub>2</sub>) 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.  
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- XLIX. **Design of epoxy-functionalized Fe<sub>3</sub>O<sub>4</sub>@MCM-41 core-shell nanoparticles for enzyme immobilization**  
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- 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.  
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- LI. **Magnetic-propelled Fe<sub>3</sub>O<sub>4</sub>-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.  
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- LII. **Magnetic Fe<sub>3</sub>O<sub>4</sub>@MCM-41 core-shell nanoparticles functionalized with thiol silane for efficient l-asparaginase immobilization**  
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- LIII. **Immobilization of L-Asparaginase on Carrier Materials: A Comprehensive Review**  
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- LIV. **Biomedical applications of hybrid polymer composite materials**  
ATEŞ B., KÖYTEPE S., Balcioglu S., Ulu A., GÜRSES C.  
HYBRID POLYMER COMPOSITE MATERIALS: APPLICATIONS, ss.343-408, 2017 (SCI-Expanded)
- LV. **Design of starch functionalized biodegradable P(MAA-co-MMA) as carrier matrix for L-asparaginase immobilization**  
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- LVI. **Synthesis and characterization of biodegradable PHEMA-starch composites for immobilization of L-asparaginase**  
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- LVII. **Synthesis and characterization of PMMA composites activated with starch for immobilization of L-asparaginase**  
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## Diğer Dergilerde Yayınlanan Makaleler

- I. **Manyetik Kantilever ile IgG antikorlarının tespiti**  
Orçun İnan O., Dik G., ULU A., ATEŞ B., ATALAY S.  
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- II. **Effects of drugs commonly used in Sars-CoV-2 infection on renal tissue in rats**  
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Annals of Medical Research, cilt.30, sa.10, ss.1209-1216, 2023 (Hakemli Dergi)
- III. **Synthesis and Biomedical Applications of Polymer-Functionalized Magnetic Nanoparticles**  
Dik G., ULU A., ATEŞ B.  
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- 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.  
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- V. **Effects of mirtazapine on cisplatin cardiotoxicity in rats**  
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- VI. **Preparation of Allantoin Loaded Chitosan Nanoparticles and Influence of Molecular Weight of Chitosan on Drug Release**  
ULU A.  
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- VII. **The Effect of Heat Treatment on Sugar, HMF and Antioxidant Properties of Honey Obtained from Different Regions in Turkey**  
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- VIII. **Yenilenebilir Kaynaklı Poliüretan Kompozitler**  
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- IX. **Sevgi Balcioglu, Yenilenebilir Kaynak Olarak Bitkisel Yağlardan Poliöl Eldesi**  
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## Kitap & Kitap Bölümleri

- I. **Medicinal and Biological Application of Magnetic Alloy Nanoparticles and Their Polymer Nanocomposites**  
Dik G., Ulu A., Ateş B.  
Handbook of Magnetic Hybrid Nanoalloys and their Nanocomposites, Sabu Thomas (Editor-in-Chief), Amirsadegh Rezazadeh Nochehdehi (Editor-in-Chief), Editör, Springer, London/Berlin, London, ss.1-27, 2022
- II. **Functionalized Magnetic Nanoparticle-based Sensors for Point-of-care Applications: From the Preparation to Practical Applications**  
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- III. **Sensors: Natural Polymeric Composites**  
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- IV. **Biomedical applications of hybrid polymer composite materials**  
ATEŞ B., KÖYTEPE S., Balcioglu S., Ulu A., GÜRSES C.

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Alamandin, Melatonin ve Alamandin-Melatonin Kombinasyonunun Monokrotalin ile indüklenmiş Pulmoner Arteriyel Hiğertansiyon 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.  
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- II. **Immobilization of L-ASNase on clay minerals for biocatalysts applications**  
ULU A.  
International Eurasian Conference on Biotechnology and Biochemistry (BioTechBioChem 2020), Türkiye, 16 Aralık 2020
- III. **Organic-Inorganic Hybrid Carriers for Enzyme Immobilization**  
ULU A.  
3RD INTERNATIONAL CONFERENCE ON PHYSICAL CHEMISTRY & FUNCTIONAL MATERIALS PCFM-2020, 22 Eylül 2020
- IV. **Synthesis of Boronic Acid/Peg-Functionalized Magnetic Nanoparticles for Enzyme Immobilization**  
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