

## **Prof.Dr. ALİ GÜNER**

### **Kişisel Bilgiler**

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### **Eğitim Bilgileri**

Yüksek Lisans, Hacettepe Üniversitesi, Fen Fakültesi, Kimya/Polimer, Türkiye 1972 - 1978

### **Yabancı Diller**

İngilizce, B2 Orta Üstü

### **Araştırma Alanları**

Kimya, Temel Bilimler

### **Akademik Unvanlar / Görevler**

Prof.Dr., Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2001 - Devam Ediyor  
Doç.Dr., Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1994 - 2001  
Yrd.Doç.Dr., Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1990 - 1994

### **Akademik İdari Deneyim**

Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2006 - 2009  
Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1997 - 2003

### **Yönetilen Tezler**

GÜNER A., Doktorarbeit über die Synthese und Charakterisierung von new polyfunctional polymers containing vinylphosphonic acid, Doktora, S.KAVLAK(Öğrenci), 2009  
GÜNER A., Algorithmic calculations, solution thermodynamics and spectroscopic investigation of poly(ethylene glycol)/solvent systems, Doktora, C.ÖZDEMİR(Öğrenci), 2006  
GÜNER A., Miscibility studies of some water soluble polymer blends, Yüksek Lisans, D.KARS(Öğrenci), 2003  
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GÜNER A., Polietilenoksit (PEO) ve polivinilpirolidon (PVP)'un kimyasal ilgi profilleri ve karışabilirlikleri, Yüksek Lisans, M.KOÇ(Öğrenci), 2016  
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## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

- I. **Thermodynamic computational calculations for preparation 5-fluorouracil magnetic molecularly imprinted polymers and their application in controlled drug release**  
TALAVAT L., GÜNER A.  
INORGANIC CHEMISTRY COMMUNICATIONS, cilt.103, ss.119-127, 2019 (SCI-Expanded)
- II. **Preparation, characterization and dynamical mechanical properties of dextran-coated iron oxide nanoparticles (DIONPs)**  
KAPLAN CAN H., KAVLAK S., ParviziKhosroshahi S., GÜNER A.  
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, cilt.46, sa.2, ss.421-431, 2018 (SCI-Expanded)
- III. **Experimental Approaches to Investigation of the Interaction in Between Anhydride Containing Copolymer and Poly N vinyl Pyrrolidone Blends**  
KAPLAN CAN H., KAVLAK S., GÜNER A.  
Polymers & Polymer Composites, cilt.24, ss.213-224, 2016 (SCI-Expanded)
- IV. **Poly(HEMA)/Cyclodextrin-Based Hydrogels for Subconjunctival Delivery of Cyclosporin A**  
Basbag A. B., GÜMÜŞDERELİOĞLU M., Simsek M., GÜNER A.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.131, sa.12, 2014 (SCI-Expanded)
- V. **Determining the influence of fibre post light transmission on polymerization depth and viscoelastic behaviour of dual-cured resin cement.**  
DOGAR A., Altintas S. C., KAVLAK S., GUNER A.  
International endodontic journal, cilt.45, ss.1135-40, 2012 (SCI-Expanded)
- VI. **Functional terpolymers containing vinylphosphonic acid: The synthesis and characterization of poly(vinylphosphonic acid-co-styrene-co-maleic anhydride)**  
KAVLAK S., GÜNER A., Rzayev Z. M. O.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.125, sa.5, ss.3617-3629, 2012 (SCI-Expanded)
- VII. **Experimental Approaches to Adsorption-Desorption Dynamism of Human Serum Albumin (HSA) onto Crosslinked N,N '-Diethylaminoethyl (DEAE) Dextran Microbeads**  
KAPLAN CAN H., GÜNER A.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, cilt.49, sa.11, ss.986-996, 2012 (SCI-Expanded)
- VIII. **Functional copolymer/organo-MMT nanoarchitectures. III. Dynamic mechanical behavior of poly(IA-co-BMA)-organo-MMT clay nanocomposites**  
Rzayev Z. M. O., GÜNER A., Soylemez E. A., KAVLAK S.  
POLYMERS FOR ADVANCED TECHNOLOGIES, cilt.22, sa.9, ss.1349-1358, 2011 (SCI-Expanded)
- IX. **Functional Copolymer/Organo-MMT Nanoarchitectures. II. Dynamic Mechanical Behavior of Poly(MA-co-BMA)s-organo-MMT Clay Nanocomposites**  
Rzayev Z. M. O., GÜNER A., Soylemez E. A., KAVLAK S.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.118, sa.5, ss.2904-2913, 2010 (SCI-Expanded)
- X. **Solubility Profiles of Poly(ethylene glycol)/Solvent Systems. II. Comparison of Thermodynamic Parameters from Viscosity Measurements**  
DİNC C. Ö., Kibarer G., GÜNER A.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.117, sa.2, ss.1100-1119, 2010 (SCI-Expanded)
- XI. **A New Approach for the Electrochemical Detection of Phenolic Compounds. Part I: Modification of Graphite Surface by Plasma Polymerization Technique and Characterization by Raman Spectroscopy**  
Gunaydin B., Sir N., KAVLAK S., GÜNER A., Mutlu M.  
FOOD AND BIOPROCESS TECHNOLOGY, cilt.3, sa.3, ss.473-479, 2010 (SCI-Expanded)

- XII. **The synthesis and characterization of functional poly(citraconic anhydride-co-styrene-co-vinylphosphonic acid)s**  
KAVLAK S., GÜNER A., Rzaev Z. M. O.  
POLYMER, cilt.51, sa.10, ss.2125-2132, 2010 (SCI-Expanded)
- XIII. **Investigation of Cytotoxic Effects of New Maleic Anhydride Binary and Ternary Copolymers on L929 Mouse Fibroblasts**  
KAPLAN CAN H., GÜRPINAR Ö. A., ONUR M. A., Rzaev Z. M. O., GÜNER A.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.115, sa.3, ss.1366-1370, 2010 (SCI-Expanded)
- XIV. **In Vitro Release Kinetics of Bovine Serum Albumin from Highly Swellable Dextran Hydrogels**  
İMREN KOÇ D., GÜMÜŞDERELİOĞLU M., GÜNER A.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.115, sa.2, ss.740-747, 2010 (SCI-Expanded)
- XV. **Spectral characterization of lysozyme adsorption on dye-affinity beads**  
Basar N., UZUN L., GÜNER A., DENİZLİ A.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.108, sa.6, ss.3454-3461, 2008 (SCI-Expanded)
- XVI. **Solution dynamics of the dextran/crosslinking agent systems**  
Ozdemir C., Colak N., Guner A.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.105, sa.3, ss.1177-1187, 2007 (SCI-Expanded)
- XVII. **Miscibility of dextran and poly(ethylene glycol) in solid state: Effect of the solvent choice**  
Barsbay M., Guner A.  
CARBOHYDRATE POLYMERS, cilt.69, sa.2, ss.214-223, 2007 (SCI-Expanded)
- XVIII. **Synthesis and characterization of dextran hydrogels prepared with chlor- and nitrogen-containing crosslinkers**  
Imren D., Gumusderelioglu M., Guner A.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.102, sa.5, ss.4213-4221, 2006 (SCI-Expanded)
- XIX. **Experimental and theoretical approaches to investigating the miscibility of anhydride-containing copolymers and dextran**  
CAN H. K., Barsbay M., Guner A., RZAEV Z. M. O.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.102, sa.3, ss.2132-2141, 2006 (SCI-Expanded)
- XX. **A thermodynamic study of the binding of human serum albumin onto N,N '-diethylaminoethyl dextran microbeads**  
Can H., Guner A.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.101, sa.6, ss.3942-3947, 2006 (SCI-Expanded)
- XXI. **Solution thermodynamics of poly(ethylene glycol)/water systems**  
Ozdemir C., Guner A.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.101, sa.1, ss.203-216, 2006 (SCI-Expanded)
- XXII. **Miscibility of dextran and poly(ethylene glycol) in dilute aqueous solutions. II. Effect of temperature and composition**  
Barsbay M., GUNER A.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.100, sa.6, ss.4587-4594, 2006 (SCI-Expanded)
- XXIII. **Intermolecular interactions between bovine serum albumin and certain water-soluble polymers at various temperatures**  
KAVLAK S., GÜNER A.  
Journal of Applied Polymer Science, cilt.100, sa.2, ss.1554-1560, 2006 (SCI-Expanded)
- XXIV. **Design and properties of new functional water-soluble polymers of citraconic anhydride (CA) and related copolymers**  
Barsbay M., CAN H., RZAEV Z., GUNER A.  
POLYMER BULLETIN, cilt.53, ss.305-314, 2005 (SCI-Expanded)
- XXV. **Synthesis of new hydrogels based on the macromolecular reaction of citraconic anhydride copolymers with gamma-aminopropyltriethoxysilane (APTS)**  
Barsbay M., CAN H., GUNER A., RZAEV Z.  
POLYMERS FOR ADVANCED TECHNOLOGIES, cilt.16, sa.1, ss.32-37, 2005 (SCI-Expanded)

- XXVI. **Synthesis of dextran dicarboxylic acid and investigation of its complexes with metal ions in aqueous solutions**  
Senoz H., GUNER A., TUNOGLU N.  
JOURNAL OF APPLIED POLYMER SCIENCE, cilt.93, sa.5, ss.2262-2265, 2004 (SCI-Expanded)
- XXVII. **Biodegradation of polyvinylchloride (PVC) by white rot fungi**  
Kirbas Z., Keskin N., Guner A.  
BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY, cilt.63, sa.3, ss.335-342, 1999 (SCI-Expanded)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Preparation and characterization of magnetic molecular imprinted 5-Fluorouacil polymer nanoparticles based on algorithmic calculation (I)**  
Talavat L., GÜNER A.  
16th World nano Conference, 5 - 06 Haziran 2017
- II. **Release of anti.cancer agent, Doxorubicin, from molecular imprinted nanoparticle polymer coated multiwalled carbon nanotubes, based on chemical affinity profiles (Hansen Method) II**  
Talavat L., GÜNER A.  
16th World nano Conference, 5 - 06 Haziran 2017
- III. **Solid-State Characterization of Poly(ethylene glycol) Samples Prepared By Solvent Cast Technique**  
ÖZDEMİR DİNÇ C., GÜNER A.  
3rd International Conference on New Trends in Chemistry, Helsinki, Finlandiya, 28 - 30 Nisan 2017, ss.99
- IV. **Molecular Imprinting for Determination of Anti Cancer Drugs and Controlled Released Systems II**  
Talavat L., GÜNER A.  
2nd World Chemistry Conference, 8 - 10 Ağustos 2016
- V. **Chemical Affinity Profiles of Certain Effectively Used Anti Cancer Drugs in Controlled Released systems I**  
Talavat L., GÜNER A.  
International Conference on Dermal Drug Delivery by nanocarriers, 14 - 16 Mart 2016
- VI. **Synthesis and Dynamic Mechanical and Rheological Behaviors of Some Maleic Anhydride Functionalized Copolymer Layered Silicate Nanocomposites**  
KAVLAK S., UZGÖREN BARAN A., RZAYEV Z., GÜNER A.  
8th Nanoscience and Nanotechnology Conference, Ankara, Türkiye, 25 - 29 Haziran 2012
- VII. **Characterization and Miscibility Dynamics of Dextran-Poly(vinylpyrrolidone)-Water System**  
Mete D., Goksel C., GÜNER A.  
10th International Workshop on Polymer Reaction Engineering, Hamburg, Almanya, 10 - 13 Ekim 2010, cilt.302, ss.257-265

## Desteklenen Projeler

- GÜNER A., TALAVAT L., Yükseköğretim Kurumları Destekli Proje, ETKİN KULLANILAN İKİ ANTİ-KANSER İLACININ, DOXORUBICINE ve 5-FLUOROURACİL, MOLEKÜLER BASKILAMA ve KONTROLLÜ SALIM SİSTEMLERİNDEKİ KİMYASAL İLGİ PROFİLLERİ, 2014 - 2017
- GÜNER A., Yükseköğretim Kurumları Destekli Proje, Biouyumlu suda çözünebilen polimerlerin çözünme ve etkilşme dinamiği ve termodynamiği, 2010 - 2017

## Metrikler

**Yayın: 34**

**Atıf (WoS): 250**

**Atıf (Scopus): 268**

**H-İndeks (WoS): 9**

**H-İndeks (Scopus): 9**