

# Prof. Oğuz Okay

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## Education Information

Doctorate, Technische Universitaet Wien, Polimer Kimyasi, Austria 1978 - 1981

Under Graduate, İstanbul Üniversitesi, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1972 - 1977

## Foreign Languages

German

English

## Research Areas

Basic Sciences, Chemistry, Physical Chemistry, Polymers and Their Applications, New Technologies in Polymer Chemistry, Polymeric Materials, Medical Applications of Polymers

## Academic Titles / Tasks

Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1998 - Continues

Professor, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1995 - 1998

Associate Professor, Dogu Akdeniz Üniversitesi, Fen-Edebiyat, Kimya, 1990 - 1992

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

- **Cryogenic formation-structure-property relationships of poly(2-acrylamido-2-methyl-1-propanesulfonic acid) cryogels**  
Su E., Okay O.  
POLYMER, vol.178, 2019 (Journal Indexed in SCI)
- **Single-, Double-, and Triple-Network Macroporous Rubbers as a Passive Sampler**  
Yetiskin B., Türeyen O. E. , Yilmaz A., Yakan S. D. , Okay O., Okay O.  
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- **Cryogel composites based on hyaluronic acid and halloysite nanotubes as scaffold for tissue engineering**  
Suner S. S. , Demirci S., Yetiskin B., Fakhrollin R., Naumenko E., Okay O., Ayyala R. S. , ŞAHİNER N.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.130, pp.627-635, 2019 (Journal Indexed in SCI)
- **A Self-Healing and Highly Stretchable Polyelectrolyte Hydrogel via Cooperative Hydrogen Bonding as a Superabsorbent Polymer**  
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MACROMOLECULES, vol.52, pp.3257-3267, 2019 (Journal Indexed in SCI)
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## **amino esters)**

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EUROPEAN POLYMER JOURNAL, vol.113, pp.155-164, 2019 (Journal Indexed in SCI)

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CARBOHYDRATE POLYMERS, vol.208, pp.413-420, 2019 (Journal Indexed in SCI)

- **Semicrystalline physical hydrogels with shape-memory and self-healing properties**

Okay O.

JOURNAL OF MATERIALS CHEMISTRY B, vol.7, pp.1581-1596, 2019 (Journal Indexed in SCI)

- **High-strength and self-recoverable silk fibroin cryogels with anisotropic swelling and mechanical properties**

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- **Monitoring the Instant Creation of a New Fluorescent Signal for Evaluation of DNA Conformation Based on Intercalation Complex**

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- **Toughness improvement and anisotropy in semicrystalline physical hydrogels**

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POLYMER, vol.151, pp.208-217, 2018 (Journal Indexed in SCI)

- **Bisphosphonic Acid-Functionalized Cross-Linkers to Tailor Hydrogel Properties for Biomedical Applications**

Güven M. N. , Altuncu M. S. , Bal T., Oran D. C. , Gulyuz U., Kizilel S., Okay O., Avci D.

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- **Interfacing Soft and Hard Materials with Triple-Shape-Memory and Self-Healing Functions**

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- **Cryogelation within cryogels: Silk fibroin scaffolds with single-, double- and triple-network structures**

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- **Mechanically strong hyaluronic acid hydrogels with an interpenetrating network structure**

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- **Yielding Behavior of Tough Semicrystalline Hydrogels**

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- **High-strength silk fibroin scaffolds with anisotropic mechanical properties**

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- **Polyampholyte hydrogels formed via electrostatic and hydrophobic interactions**

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- **Preparation and fracture process of high strength hyaluronic acid hydrogels cross-linked by ethylene glycol diglycidyl ether**

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- **Mechanically strong triple network hydrogels based on hyaluronan and poly(N,N-dimethylacrylamide)**

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Okay O., Project Supported by Higher Education Institutions, Sıcaklık ve pH'ya Duyarlı PAAc/F127 İçİÇe Geçmiş Ağyapıların Sentezi ve Kontrollü İlaç SALım Sistemlerinde Kullanılması, 2012 - 2012

Okay O., Project Supported by Higher Education Institutions, İpek Fibroin Jellerin Mekanik Özelliklerinin İncelenmesi, 2011 - 2012

Okay O., Project Supported by Higher Education Institutions, Hidrofibrik Etkileşimlerle Oluşan Tersinir Hidrojellerin Ayrışması ve Tekrar Oluşumu, 2011 - 2012

Okay O., Project Supported by Higher Education Institutions, Makrogözenekli DNA Jellerinin Sentezi, 2011 - 2011

Okay O., Project Supported by Higher Education Institutions, Makrogözenekli Kauçuk Organojel sentezi ve Petrol döküntülerinin Deniz Sularından Uzaklaştırılmasında Kullanımı, 2011 - 2011

Okay O., Project Supported by Higher Education Institutions, Miseller Polimerizasyonu ile Hidrojel Sentezi, 2010 - 2011

Okay O., Project Supported by Higher Education Institutions, BUTİL KAUÇUK-SİLİFKA ESASLI NANOKOMPOZİT JELLERİN SENTEZİ, KARAKTERİZASYONU VE PETROL SORBENTİ OLARAK KULLANILMASI, 2009 - 2011

Okay O., Project Supported by Higher Education Institutions, Donmuş Monomer Çözeltilerden Makroporlu Hidrojellerin Sentezi ve Karakterizasyonu, 2008 - 2010

Okay O., Project Supported by Higher Education Institutions, Hızlı Yanıt Veren Butil Kauçuk Esaslı Organojeller, 2008 - 2008

Okay O., Project Supported by Higher Education Institutions, Akrlamid Laponite Nanokompozit Hidrojellerin Sentezi ve Karakterizasyonu, 2008 - 2008

Okay O., Project Supported by Higher Education Institutions, Statik Işık Saçınımı Tekniği ile Poliakrilamid Jellerinde İnhomojenitenin İncelenmesi, 2004 - 2007

Okay O., Project Supported by Higher Education Institutions, Hızlı Cevap Verebilen (fast-responsive) Poli(N-isopropilakrilamid) Esaslı Hidrojellerin Sentezi ve Karakterizasyonu, 2004 - 2007

Okay O., Project Supported by Higher Education Institutions, Poliakrilik Asid Hidrojellerinin Sentez Şartlarının İnhomojenitelerine Etkisinin İncelenmesi, 2003 - 2007

Okay O., Project Supported by Higher Education Institutions, Kuwvetli Polielektrolit Hidrojellerin Şişme Davranışlarının İnhomojenitelerine Olan Etkisinin İncelenmesi, 2003 - 2007

Okay O., Project Supported by Higher Education Institutions, Akrlamit Esaslı Süperabsorban Hidrojellerinin Sentezi Ve Sentez Şartları -Yapıları - Özellikleri, 1998 - 2005

Okay O., Project Supported by Higher Education Institutions, Sıcaklığa Duyarlı Poli Esaslı Hidrojenlerin Sentezi ve Karakterizasyonu, 2001 - 2004

Okay O., Project Supported by Higher Education Institutions, Akrilamit Esaslı Katyonik ve Anyonik Jellerin Polimer Çözeltilerinde Şişme Davranışları, 2001 - 2004

Okay O., Project Supported by Higher Education Institutions, Poli Ağyapı Liner Polimer-Solvent Sistemlerinin Termodinamik Analizi, 2001 - 2004

## Activities in Scientific Journals

Advances in Polymer Science, Committee Member, 2013 - Continues

Turkish Journal of Chemistry, Committee Member, 2007 - Continues

## Memberships / Tasks in Scientific Organizations

TÜBA, Member, 2006 - Continues

## Scientific Refereeing

Reactive and Functional Polymers, SCI Journal, January 2017

Macromolecules, SCI Journal, January 2017

European Polymer Journal, SCI Journal, January 2017

ACS Applied Materials and Interfaces , SCI Journal, January 2017

Journal of Applied Polymer Science, SCI Journal, January 2017

Colloid and Interface Science, SCI Journal, January 2017

Macromolecular Rapid Communications, SCI Journal, January 2017

Biomacromolecules, SCI Journal, January 2017

Advances in Polymer Science, SCI Journal, January 2017

Polymer, SCI Journal, January 2017

## Invited Congress and Symposium Activities

6. Fiziksel Kimya Kongresi, Attendee, Zonguldak, Turkey, 2017

6. Fiziksel Kimya Kongresi, Invited Speaker, Zonguldak, Turkey, 2017

6. Ulusal Polimer Bilim ve Teknoloji Kongresi,, Invited Speaker, Ankara, Turkey, 2016

6. Ulusal Polimer Bilim ve Teknoloji Kongresi, Attendee, Ankara, Turkey, 2016

28.Ulusal Kimya Kongresi, Invited Speaker, Mersin, Turkey, 2016

28.Ulusal Kimya Kongresi, Attendee, Mersin, Turkey, 2016

World Polymer Congress, Attendee, İstanbul, Turkey, 2016

World Polymer Congress, Invited Speaker, İstanbul, Turkey, 2016

Multifunctional Biomaterials for Medicine, Invited Speaker, Berlin, Germany, 2015

27. Ulusal Kimya Kongresi, Attendee, Çanakkale, Turkey, 2015

27. Ulusal Kimya Kongresi, Invited Speaker, Çanakkale, Turkey, 2015

International Biomedical Engineering Congress, Invited Speaker, Gime, Cyprus (Kktc), 2015

International Biomedical Engineering Congress,, Attendee, Gime, Cyprus (Kktc), 2015

248th ACS National Meeting, Attendee, United States Of America, 2014

248th ACS National Meeting, Invited Speaker, California, United States Of America, 2014

## Citations

Total Citations (WOS):7957



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