

Prof. Nermin Orakdöğen

Personal Information

Office Phone: [+90 0212 285 3305](tel:+9002122853305)

Fax Phone: [+90 0212 285 3567](tel:+9002122853567)

Email: orakdogen@itu.edu.tr

Web: <https://avesis.itu.edu.tr/orakdogen>

Address: İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 34469, Ayazağa, İstanbul

International Researcher IDs

ORCID: 0000-0001-7578-9649

Publons / Web Of Science ResearcherID: Q-2081-2015

ScopusID: 9276137300

Yoksis Researcher ID: 152369

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi Anabilim Dalı, Turkey 2001 - 2007

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Polimer Bilim Ve Teknolojisi Anabilim Dalı, Turkey 1999 - 2001

Undergraduate, Istanbul Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1994 - 1999

Undergraduate Double Major, Istanbul Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1994 - 1998

Foreign Languages

English

Certificates, Courses and Trainings

Education Management and Planning, European Commission, Research Potential (REGPOT), Bosphorous University-TUBITAK, 2009

Education Management and Planning, İ-Net Partnership-Writing for FP7 SME Proje Yazımı Eğitimi, Türkiye Sanayi Sevk ve İdare Enstitüsü (TÜSSİDE)- TUBİTAK, 2008

Education Management and Planning, General Metrology, National Metrology Institute (UME), TUBİTAK, 2008

Education Management and Planning, Uncertainty Measurement, National Metrology Institute (UME), TUBİTAK, 2008

Education Management and Planning, Project Management, Türkiye Sanayi Sevk ve İdare Enstitüsü (TÜSSİDE)- TUBİTAK, 2008

Dissertations

Doctorate, Swelling, Elasticity and Inhomogeneity of Poly(N,N-dimethylacrylamide) Hydrogels, İstanbul Teknik Üniversitesi, Fen-Bilimleri Enstitüsü, Polymer Science And Technology, 2006

Postgraduate, Thermodynamic analysis of Poly(N-isopropylacrylamide) network-linear polymer-solvent systems,

Research Areas

Biophysical Chemistry, Protein Chemistry, Physical Chemistry, Polymers and Their Applications, Functional Polymers, nanocomposites, New Technologies in Polymer Chemistry, Polymeric Materials, Medical Applications of Polymers

Academic Titles / Tasks

Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2018 - Continues

Associate Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2014 - 2018

Assistant Professor, Istanbul Technical University, Fen-Edebiyat, Kimya, 2009 - 2014

Academic and Administrative Experience

Vice Dean, Istanbul Technical University, Fen-Edebiyat, Kimya, 2015 - 2018

Fakülte Yönetim Kurulu Üyesi, Istanbul Technical University, Fen-Edebiyat, Kimya, 2015 - 2018

Supported Projects

Orakdöğen N., Tanç B., Project Supported by Higher Education Institutions, Çevresel uyarılara duyarlı yumuşak ve akıllı nanokompozit jeller, 2017 - 2018

Orakdöğen N., Project Supported by Higher Education Institutions, uyarılara Duyarlı Poli (N,N- Dimetilaminoetil mektakrilat) Jellerinin Yapı Özellik Tepki İlişkileri, 2011 - 2018

Orakdöğen N., Project Supported by Higher Education Institutions, Poly(N,N-Dimethylacrylamide) Hydrogels : Formation by Free Radical Crosslinking Copolymerization, Characterization and gel Properties, 2010 - 2018

Orakdöğen N., Project Supported by Higher Education Institutions, pH-Sıcaklık ve çevre-uyarılara duyarlı yeni tür kopolimerik jeller, 2016 - 2017

Orakdöğen N., Project Supported by Higher Education Institutions, N,N-dimetilakrilamid esashı asidik komonomer katkılı akıllı iyonik jeller, 2016 - 2017

Orakdöğen N., Project Supported by Higher Education Institutions, Akrilat Esashı Modifiye Hidrojeller: Sentezi, Karakterizasyonu ve Mekanik Özellikleri, 2015 - 2015

Orakdöğen N., Project Supported by Higher Education Institutions, Çapraz Bağlı Akrilamid /İtakonik Asir Esashı Jellerin Hazırlanması ve otansiyel Kullanım Kapasitelerinin Araştırılması, 2011 - 2014

Orakdöğen N., Project Supported by Higher Education Institutions, SERBEST RADİKALLİK MEKANİZMA İLE N,N-DİMETİLAMİNOETİL METAKRİLAT ESASHI HİDROJELLERİN SENTEZİ, KARAKTERİZASYONU VE JEL ÖZELLİKLERİNİN İNCELENMESİ, 2009 - 2012

Scientific Refereeing

Materials Chemistry and Physics, SCI Journal, June 2017

Colloid and Polymer Science, SCI Journal, June 2017

ACS Applied Materials & Interfaces, SCI Journal, June 2017

Polymer Bulletin , SCI Journal, May 2017

Polymer Bulletin , SCI Journal, April 2017

ACS Sustainable Chemistry & Engineering, SCI Journal, March 2017

International Journal of Polymeric Materials and Polymeric Biomaterials, SCI Journal, March 2017

Applied Materials & Interfaces, SCI Journal, February 2017
TÜRK KİMYA DERGİSİ, SCI Journal, February 2017
Biomacromolecules, SCI Journal, February 2017
Polymer Bulletin , SCI Journal, February 2017
Langmuir, SCI Journal, February 2017
Polymer Bulletin, SCI Journal, January 2017
Polymer Bulletin, SCI Journal, January 2017
The International Journal of Polymeric Materials and Polymeric Biomaterials, SCI Journal, December 2016
Europhysics Letters, SCI Journal, October 2016
Analytical Chemistry, SCI Journal, September 2016
Polymer Bulletin, SCI Journal, August 2016
Clays and Clay Minerals, SCI Journal, August 2016
Biomacromolecules, SCI Journal, July 2016
ACS Applied Materials & Interfaces, SCI Journal, June 2016
RSC Advances, SCI Journal, April 2016
RSC Advances, SCI Journal, April 2016
Designed Monomers and Polymers, SCI Journal, March 2016
Turkish Journal of Chemistry, SCI Journal, March 2016
Journal of Materials Chemistry B, SCI Journal, March 2016
International Journal of Polymeric Materials, SCI Journal, February 2016
Turkish Journal of Chemistry, SCI Journal, February 2016
Journal of Applied Polymer Science, SCI Journal, February 2016
European Polymer Journal, SCI Journal, February 2016

Metrics

Publication: 79
Citation (WoS): 599
Citation (Scopus): 595
H-Index (WoS): 14
H-Index (Scopus): 13

Congress and Symposium Activities

Poli (Hidroksipropil metakrilat-ko-N,N-dimetilaminoetil metakrilat) kopolimer hidrojel­leri: pH ve sıcaklık bağımlı şişme özellikleri ve elastisite” 6.Ulusal Polimer Bilim ve Teknoloji Kongresi, Attendee, Ankara, Turkey, 2016
BiPoCo 2016 - 3rd International Conference on Bio-based Polymers and Composites-Kinetic studies on the efficiency of solvent diffusion in pH-responsive poly(N,N-dimethylaminoethyl methacrylate)-based copolymeric hydrogels, Attendee, Szeged, Hungary, 2016
Effect of reaction parameters on the elastic properties of pH-responsive (meth)acrylate-based millimeter-sized hydrogel beads” XXIV Congress of Chemists and Technologists of Macedonia, Attendee, Ohrid, Macedonia, 2016
BiPoCo 2016 - 3rd International Conference on Bio-based Polymers and Composites-Facile formation and enhanced mechanical properties of smart poly(N,N-dimethylaminoethyl methacrylate)-based hydrogels and cryogels, Attendee, Szeged, Hungary, 2016
BiPoCo 2016 - 3rd International Conference on Bio-based Polymers and Composites-Influence of sulphonate groups on equilibrium swelling and elasticity of Dimethylaminoethyl methacrylate based superabsorbent copolymer hydrogels, Attendee, Szeged, Hungary, 2016
Synthesis and stimulus-response of poly(dimethylaminoethyl methacrylate-co-2-acrylamido-2-methyl-propanosulfonic acid) cryogels” 28. Ulusal Kimya Kongresi (Uluslararası Katılımlı), Attendee, Turkey, 2016

Influence of polymer network parameters on elasticity and equilibrium swelling properties of cationic hydrogels based on N,N-dimethylaminoethyl methacrylate" 28. Ulusal Kimya Kongresi (Uluslararası Katılımlı), Attendee, Turkey, 2016

Smart ionic gels based on N,N-dimethylacrylamide with acidic comonomers: modeling swelling kinetics and effective charge density" 28. Ulusal Kimya Kongresi (Uluslararası Katılımlı), Attendee, Mersin, Turkey, 2016

Stimuli-induced volume phase transition of cationic copolymeric hydrogels based on N,N-dimethylaminoethyl methacrylate" Macro2016, 46th IUPAC World Polymer Congress, Attendee, İstanbul, Turkey, 2016

Stimuli pH-responsive polymer network structures consisting of N,N-dimethylaminoethyl methacrylate" BiPoCo 2014, 2nd International Conference on Bio-Based polymers and Composites, Attendee, Veszprém, Hungary, 2014

Study of cationic poly(N,N-dimethylaminoethyl methacrylate) hydrogels as pH-responsive smart materials" 10th Nanoscience and Nanotechnology Conference, Attendee, İstanbul, Turkey, 2014

Hydrophobically Associated Self-Healing Hydrogels Formed in Anionic/Cationic Mixed Micelle Solutions, Attendee, Muğla, Turkey, 2012

Structure - property - response relationships of stimuli responsive poly(N,N-dimethylaminoethyl methacrylate) gels", Polymers for Advanced Technologies, Attendee, Łódź, Poland, 2012

Network structure and properties of poly(N,N-dimethylaminoethyl methacrylate) gels as smart materials" The 7th ECNP International Conference on Nanostructured Polymers and Nanocomposites, Attendee, Praha, Czech Republic, 2012

Investigation of equilibrium swelling and mechanical properties of chemically-crosslinked poly(acrylamide-co-itaconic acid) copolymeric hydrogels, Attendee, Praha, Czech Republic, 2012

Design of responsive hydrogels based on N-isopropylacrylamide and N,N-dimethylaminoethyl methacrylate with improved structural properties" The 7th ECNP International Conference on Nanostructured Polymers and Nanocomposites, Attendee, Praha, Czech Republic, 2012

Hydrogels formed via hydrophobic interactions in mixed micelle solutions" Recent Advances in Synthetic and Biological Gels 2011, Attendee, İstanbul, Turkey, 2011

Formation, elasticity and molecular characteristics of responsive hydrogels" Recent Advances in Synthetic and Biological Gels, Attendee, İstanbul, Turkey, 2011

Poly(N,N-Dimethylacrylamide) Hydrogels: Formation by Free Radical Crosslinking Copolymerization, Characterization and Gel Properties", Polymer Networks Group 20th Conference, Attendee, Hannover, Germany, 2010

Swelling and elasticity of responsive DNA Hydrogels", Polymer Networks Group 20th Conference, Attendee, Hannover, Germany, 2010

Swelling Behavior of Thermoresponsive Hydrogels from Photo-Crosslinkable Terpolymers ", Polymer Networks Group 20th Conference, Attendee, Hannover, Germany, 2010

Chemically Cross-linked DNA Hydrogels and Cryogels: Formation, Characterization and Rheological Properties" Monaco-Extra Summer School: Porous Hydrogels for Biomedical Applications: from Cytopheresis to Tissue Engineering, Attendee, Antalya, Turkey, 2009

Correlation between crosslinking efficiency and spatial inhomogeneity in poly(acrylamide) hydrogels " (poster) 18th International Conference of the Polymer Networks Group, Attendee, Sheffield, United Kingdom, 2006

Formation and properties of poly(N,N-dimethylacrylamide) hydrogels" (poster) Polymer Gels and Networks, 44th Microsymposium of P.M.M., Attendee, Praha, Czech Republic, 2005

Simulation of Formation and Termination of Macro-Radicals During ultrasonic Polymer Scission, Attendee, Turkey, 1999

Simulation of Block Copolymer Synthesis on Ultrasonically Formed Macro Radicals, Attendee, İstanbul, Turkey, 1999

Scholarships

Max-Planck Gesellschaft Doktora Sonrası Araştırmacı Bursu, University, 2007 - Continues

Non Academic Experience

Other, - Institute Of Macromolecular Chemistry, Academy Of Sciences Of The Czech Republic
Institute of Macromolecular Chemistry

Other, Technical University Of Clausthal, Institut Für Physikalische Chemie, Technical University Of Clausthal, Institut Für
Physikalische Chemie
Technical University of Clausthal
TÜBİTAK, Ulusal Metroloji Enstitüsü (UME)
Max-Planck Institute for Polymer Research, Almanya
İstanbul Teknik Üniversitesi