# Lect. PhD DAVUT AKSÜT

## Personal Information

**Email:** davut.aksut@hacettepe.edu.tr
**Web:** https://avesis.hacettepe.edu.tr/davutaksut

**International Researcher IDs**
ORCID: 0000-0003-0954-0727
Yoksis Researcher ID: 302168

## Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Polimer Bilimi ve Teknolojisii A.B.D., Turkey 2015 - 2021
Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Fen Bilimleri Enstitüsü, Turkey 2010 - 2012
Undergraduate, Inonu University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2000 - 2006

## Foreign Languages

English, B2 Upper Intermediate

## Research Areas

Chemistry, Physical Chemistry, Rubber Industry, Composites, Characterization of Polymers, Polymeric Materials, Recycling of Polymers, Thermoset Polymers, Natural Sciences

## Published journal articles indexed by SCI, SSCI, and AHCI

I. **Synthesis and characterization of a self-healing Epichlorohydrin-co-Ethylene Oxide-co-Allyl Glycidyl ether-based polymer by modification using the stable Nitroxide Radical 2,2,6,6-Tetramethylpiperidine 1-oxyl**
Haliouche A., Esin Z., AKSÜT D., ÇOLAK Ş., Benbellat N., ŞEN M.
JOURNAL OF MOLECULAR STRUCTURE, 2025 (SCI-Expanded)

II. **Influence of amount of fumed silica on curing, mechanical, damping, and relaxation properties of phenyl vinyl methyl polysiloxane elastomer**
AKSÜT D.
PROGRESS IN RUBBER PLASTICS AND RECYCLING TECHNOLOGY, 2025 (SCI-Expanded)

III. **Identification of the effect of ionizing radiation on epichlorohydrin-based homo-, co-, and ter-polymers**
Şen M., Çınar Esin Z., Aksüt D.
RADIATION PHYSICS AND CHEMISTRY, vol.206, no.1, pp.1-9, 2023 (SCI-Expanded)

IV. **Preparation and characterization of high damping poly(epichlorohydrin) and poly(epichlorohydrin-co-ethylene oxide-co-allyl glycidyl ether) elastomers: I. Effect of curing system and blending on the damping properties**
ŞEN M., Soydaş O., AKSÜT D.
Reactive and Functional Polymers, vol.184, 2023 (SCI-Expanded)

V. **Removal of Atrazine Using Polymeric Cryogels Modified with Cellulose Nanomaterials**
Tuysuz M., AKSÜT D., UZUN L., Evci M., KÖSE D. A., Youngblood J. P.
WATER AIR AND SOIL POLLUTION, vol.233, no.11, 2022 (SCI-Expanded)

VI. **Dynamical Mechanical Properties of Radiation Modified Phenyl-Vinyl-Methyl-Polysiloxane Elastomers at The Natural Frequency by Dynamic Mechanical Yerzley Oscillograph**
Şen M., Aksüt D.
KAUTSCHUK GUMMI KUNSTSTOFFE, vol.4, pp.55-61, 2022 (SCI-Expanded)

VII. **A different approach to immunochemotherapy for colon Cancer: Development of nanoplexes of cyclodextrins and Interleukin-2 loaded with 5-FU**
Akkin S., VARAN G., AKSÜT D., Malanga M., ERCAN A., ŞEN M., BİLENSOY E.
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.623, 2022 (SCI-Expanded)

VIII. **Modification of cyclodextrin and use in environmental applications**
KÖSE K., Tuysuz M., AKSÜT D., UZUN L.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.29, pp.182-209, 2022 (SCI-Expanded)

IX. **The effect of ionizing radiation on the temperature scanning stress relaxation properties of nitrile-butadiene rubber elastomers reinforced by lignin**
Şen M., Aksüt D., Karaağaç B.
RADIATION PHYSICS AND CHEMISTRY, vol.168, 2020 (SCI-Expanded)

X. **The effect of ionizing radiation on the mechanical properties of NBR elastomers reinforced by lignin**
Şen M., Aksüt D., Karaağaç B.
RADIATION PHYSICS AND CHEMISTRY, vol.168, 2020 (SCI-Expanded)

XI. **Reducing the hydrocarbon gas diffusion and increasing the pressure-impact strength of fuel transfer pipelines for use in the automotive industry using radiation crosslinked polyamide 12**
Hıdıroglu M., Aksüt D., Serce O., Karabulut H., Şen M.
RADIATION PHYSICS AND CHEMISTRY, vol.159, pp.118-123, 2019 (SCI-Expanded)

XII. **Effect of radiation on vinyl-methyl-polysiloxane and phenyl-vinyl-methyl-polysiloxane elastomers cured with different co-agents: Comparative study of mechanical and relaxation properties**
Aksüt D., Demeter M., Vancea C., Şen M.
RADIATION PHYSICS AND CHEMISTRY, vol.158, pp.87-93, 2019 (SCI-Expanded)

XIII. **Effect of radiation on mechanical properties of phenyl-vinyl-methyl-polysiloxane (PVMQ) elastomers cured with peroxide and Type I and Type II coagents**
Aksüt D., Demeter M., Calına I., Şen M.
RADIATION PHYSICS AND CHEMISTRY, vol.158, pp.148-152, 2019 (SCI-Expanded)

## Supported Projects

Aksüt D., TUBITAK Project, İyonlastırıcı Radyasyonun Epiklorohidrin Temelli Homo-, Ko- Ve Terpolimerler Üzerindeki Etkisinin Incelenmesi, 2023 - 2024

ŞEN M., AKSÜT D., Arslan E. A., Project Supported by Higher Education Institutions, Izod Darbe Testi Cihazının Tasarımı ve Plastik Testlerinde Kullanılması, 2020 - 2022

ŞEN M., Ahi S., AKSÜT D., Project Supported by Higher Education Institutions, Doğal Kauçuk Esaslı Atık Lateks Eldiven ve Etilen Vinil Asetat Kullanılarak Yeni Termoplastik Elastomer Kompozitlerin Hazırlanması ve Karakterizasyonu, 2019 - 2022

## Metrics

Publication: 13
Citation (WoS): 25
Citation (Scopus): 67

H-Index (WoS): 3
H-Index (Scopus): 5

## Congress and Symposium Activities

Uluslararası Katılımlı VII. Polimer Bilim ve Teknoloji Kongresi, Attendee, Eskişehir, Turkey, 2018
The Ionizing Radiation and Polymerization Symposium (IRaP), Attendee, Moscow, Russia, 2018
RubberCon, Attendee, İstanbul, Turkey, 2018
5th Intenational Polymeric Composites Symposium, Attendee, İzmir, Turkey, 2017
29. Ulusal Kimya Kongresi, Attendee, Ankara, Turkey, 2017
VI. Ulusal Polimer Bilim ve Teknolojisi Kongresi, Attendee, Eskişehir, Turkey, 2016
25. Ulusal Kimya Kongresi, Attendee, Erzurum, Turkey, 2011
21. Ulusal Kimya Kongresi, Attendee, Malatya, Turkey, 2007
19. Ulusal Kimya Kongresi, Attendee, İzmir, Turkey, 2005