

## Prof. MURAT ŐEN

### Personal Information

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**Address:** Hacettepe Üniversitesi, Kimya Bölümü, Polimer Kimyası Ana Bilim Dalı, 06800, Beytepe, Ankara

### International Researcher IDs

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Publons / Web Of Science ResearcherID: G-9303-2013

Yoksis Researcher ID: 7819

### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Abd, Turkey 1988 - 1993

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya Abd, Turkey 1985 - 1988

Undergraduate, Hacettepe University, Mühendislik Fakültesi, Kimya Bölümü, Turkey 1980 - 1985

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Material science and engineering, Composites, Polymeric Materials, Nanomaterials, Cellulosic Materials, Chemistry, Physical Chemistry, Conductive Polymers, Rubber Industry, Characterization of Polymers, New Technologies in Polymer Chemistry, Polymeric Adsorbents, Polymeric Materials, Medical Applications of Polymers, Recycling of Polymers, Cellulose and its Derivatives, High Performance Polymers, Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2007 - Continues

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2002 - 2007

Assistant Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 1996 - 2002

Research Assistant, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 1985 - 1996

### Academic and Administrative Experience

Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Polimer Bilimi Ve Teknolojisi (YI) (Tezli), 2014 - Continues

Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2009 - 2018

Hacettepe Üniversitesi, Fen Fakültesi, 2014 - 2015

## Courses

Polimerlerin Karakterizasyonu ve Analizi, Postgraduate, 2017 - 2018

Polimer Karakterizasyon Laboratuvarı, Postgraduate, 2017 - 2018

Polimer Kimyası I, Undergraduate, 2017 - 2018

## Advising Theses

Şen M., İYONLAŞTIRICI RADYASYONUN FARKLI AJANLARLA KÜRLENMİŞ POLİ(EPIKLOROHİDRİN-KO-ETİLEN OKSİT-KO-ALLİL GLİSİDİL ETER) (GECO) BAZLI ELASTOMERLERİN ENERJİ SÖNÜMLEME ÖZELLİKLERİ ÜZERİNDEKİ ETKİSİNİN ARAŞTIRILMASI, Postgraduate, P.TONKA(Student), 2023

Şen M., Karbon siyahı tipinin ve vulkanizasyon sisteminin yeni nesil etilen propilen dien monomer (EPDM) elastomerlerinin statik ve dinamik mekanik özelliklerine etkisi, Doctorate, Y.DURMUŞ(Student), 2022

Şen M., Doğal kauçuk/bütadien kauçuk esash elastomerik malzemelerin hazırlanması, karakterizasyonu ve raylı sistem araçlarında birincil süspansiyon titreşim sönümlenme elemanı olarak kullanımının incelenmesi, Postgraduate, E.FATMA(Student), 2022

Şen M., IZOD darbe testi cihazının tasarımı ve plastik testlerinde kullanılması, Postgraduate, E.ALPEREN(Student), 2022

, Şen M., Florosilikon kauçuğunun kür koşullarının optimizasyonu, Postgraduate, E.KÖSE(Student), 2022

Şen M., Yüksek sönümlenme özelliğine sahip epiklorohidrin esash elastomerlerin hazırlanması ve karakterizasyonu, Postgraduate, O.SOYDAŞ(Student), 2021

Şen M., Sıcaklık taramalı gerilim gevşemesi (TSSR) yöntemi ile vinil metil silikon (VMQ) elastomerinin çapraz bağ yoğunluğunun belirlenmesini sınırlayan koşullar, Postgraduate, Ş.MERVE(Student), 2021

Şen M., Demattia-esnek çatlama test cihazının tasarımı ve elastomerler testlerinde kullanılması, Postgraduate, E.ÜMİTCAN(Student), 2020

Şen M., Silikon elastomerlerin sönümlenme özelliğini kontrol eden yapısal parametrelerin belirlenmesi, Postgraduate, G.BİRİNCİ(Student), 2020

Şen M., Geri sekme esnekliği ölçüm cihazı tasarımı ve elastomer testlerinde kullanılması, Postgraduate, S.FATİH(Student), 2020

Şen M., Silikon elastomerlerin ömür süresine etki eden parametrelerin belirlenmesi, Postgraduate, M.MELİKE(Student), 2020

Şen M., Farklı ko-ajanlar varlığında kürleştirilmiş silikon elastomerlerin özelliklerine iyonlaştırıcı radyasyonun etkisi, Doctorate, D.AKSÜT(Student), 2020

Şen M., Doğal kauçuk esash atık lateks eldiven ve poli(etilen-ko-vinil asetat) kullanılarak yeni termoplastik elastomer kompozitlerin hazırlanması ve sönümlenme özelliklerinin incelenmesi, Postgraduate, S.AHİ(Student), 2019

Şen M., EPDM elastomerlerinin gerilme durulma davranışlarını kontrol eden parametrelerin belirlenmesi, Postgraduate, S.CANAN(Student), 2019

ŞEN M., Silikon Elastomerlerin Durulma Özelliklerine Hızlandırıcı Tipinin ve Oranının Etkisi, Postgraduate, E.KAYMAZLAR(Student), 2018

Şen M., Dİ (2-Etilhekzil) fitalat baskılı polimerlerin PE/PP dokumasız kumaşlara iyonlaştırıcı radyasyon kullanılarak aşılması, Postgraduate, B.AYDEMİR(Student), 2018

Şen M., Silikon elastomerlerin durulma özelliklerini kontrol eden parametrelerin belirlenmesi, Postgraduate, M.PARLAK(Student), 2018

Şen M., Silikon sünger kauçuğun hazırlanması için optimum proses koşullarının belirlenmesi, Postgraduate, E.EREFİ(Student), 2018

ŞEN M., İyonlaştırıcı radyasyonla ksantan sakızı esash süper emici polimerlerin hazırlanması, Doctorate, H.HAYRABOLULU(Student), 2017

ŞEN M., Yüksek yoğunluklu polietilen-hidroksiapatit (YYPE-HA) nanokompozit sistemlerinin hazırlanması ve karakterizasyonu, Postgraduate, E.KARACA(Student), 2017

ŞEN M., Determination of the effect of accelerator type and accelerator/sulfur ratio on the vulcanization kinetics and aging properties of natural rubber/chloroprene based rubber compounds, Doctorate, F.AHMADZADEH(Student), 2017

ŞEN M., Epoksi-fonksiyonelli silikat içerikli polimer nanokompozitlerin sentezi ve karakterizasyonu, Postgraduate,

K.ŞERİFE(Student), 2015

ŞEN M., Kitosanın radyasyonla bozunmasına deasetilasyon derecesinin etkisi, Postgraduate, P.TAŞKIN(Student), 2015

ŞEN M., Doğal kauçuk/bütadien kauçuk esaslı silecek lastiği malzemelerinin hazırlanması ve karakterizasyonu, Postgraduate, A.BABAPOUR(Student), 2013

ŞEN M., Doğal kauçuk/kloropren esaslı silecek lastiği malzemelerinin hazırlanması ve karakterizasyonu, Postgraduate, E.DİKİCİER(Student), 2013

ŞEN M., Yakıt hücresi uygulamaları için stiren-(etilen-bütilen)-stiren (SEBS) esaslı kompozit polielektrolit membran geliştirilmesi, Doctorate, K.POLAT(Student), 2013

ŞEN M., Akrilik asit sodyum tuzu / keçiyoynuzu çekirdeği sakızı yarı iç içe geçmiş ağ yapılarının radyasyonla sentezi ve süper emici davranışlarının incelenmesi, Postgraduate, H.HAYRABOLULU(Student), 2011

ŞEN M., Hidrojellerde adsorplanan ve absorplanan suyun yapısının incelenmesi, Postgraduate, H.YÖNDEMLİ(Student), 2009

ŞEN M., Enhancement of compatibility of polyethylene/polyvinyl acetate blends by irradiation of polyethylene, Postgraduate, Z.YILMAZ(Student), 2007

Şen M., Investigation of gamma rays induced degradation mechanism of polysaccharides, Postgraduate, D.TOPRAK(Student), 2006

Şen M., Synthesis and characterization of macroporous poly(dimethylamino ethyl methacrylate) hydrogels by enhanced phase separation, Postgraduate, O.AGUŞ(Student), 2005

Şen M., Preparation of poly(n-vinyl-2-pyrrolidone)/kappa-carrageenan hydrogels by ionizing radiation, Postgraduate, E.NAZAN(Student), 2003

Şen M., Ageing characteristics of ethylene-vinyl acetate copolymer and ethylene-vinyl acetate/ carbon black mixture, Postgraduate, M.ÇOPUROĞLU(Student), 2001

Şen M., Radiation synthesis and characterization of cationic poly (N,N-dimethylaminoethyl methacrylate/N-vinyl 2-pyrrolidone/ethylene glycol dimethacrylate) hydrogels, Postgraduate, M.SARI(Student), 2000

Şen M., Radiation synthesis and characterization of poly(N-vinyl 2-pyrrolidone/itaconic acid/ethylene glycol dimethacrylate) hydrogels and their use in the drug delivery systems, Postgraduate, A.YAKAR(Student), 2000

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

- I. **Effect of molecular and structural architecture of poly(epichlorohydrin-co-ethylene oxide-co-allyl glycidyl ether) on the properties of its elastomers**  
YALAKI Y., ŞEN M.  
POLYMERS FOR ADVANCED TECHNOLOGIES, no.9, 2024 (SCI-Expanded)
- II. **Effect of silica type, content, and silanization on the curing, mechanical and energy dissipation properties of poly (epichlorohydrin-co-ethylene oxide-co-allyl glycidyl ether) elastomers**  
Babapour A., ŞEN M.  
European Polymer Journal, vol.206, 2024 (SCI-Expanded)
- III. **Effect of ionizing radiation on mechanical and damping properties of phenyl-vinyl-methyl-polysiloxane elastomers cured with platinum**  
Esin Z., ŞEN M.  
Polymers for Advanced Technologies, vol.35, no.1, 2024 (SCI-Expanded)
- IV. **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)
- V. **Design and Characterization of Carboplatin and Paclitaxel Loaded PCL Filaments for 3D Printed Controlled Release Intrauterine Implants**  
Varan C., Aksüt D., Şen M., Bilensoy E.  
PHARMACEUTICS, vol.15, no.4, pp.1-17, 2023 (SCI-Expanded)
- VI. **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)

- VII. **Influence of micro crystalline cellulose on EPDM-based automotive sealing profile**  
POYRAZ B., Guner Y., Yardim T., YAMANOĞLU R., TOZLUOĞLU A., DURMUŞ S., ŞEN M.  
JOURNAL OF ELASTOMERS AND PLASTICS, vol.55, no.1, pp.28-45, 2023 (SCI-Expanded)
- VIII. **Effect of radiation on the mechanical, energy dissipation and vibration-damping properties of platinum-cured vinyl-methyl-polysiloxane elastomer**  
ÇINAR ESİN Z., ŞEN M.  
Radiation Physics and Chemistry, vol.202, 2023 (SCI-Expanded)
- IX. **Preparation and characterization of natural rubber-based new elastomers for high-damping base isolation systems**  
Azar F. A. N., Naghshineh A. K., ŞEN M.  
JOURNAL OF ELASTOMERS AND PLASTICS, vol.54, no.6, pp.959-974, 2022 (SCI-Expanded)
- X. **Dynamic mechanical Properties of radiation-modified Peroxide cured PVMQ elastomers at their natural frequency**  
Şen M., Aksüt D., Saltuk I., Akgerman N.  
KGK-KAUTSCHUK GUMMI KUNSTSTOFFE, vol.75, no.4, pp.55-61, 2022 (SCI-Expanded)
- XI. **Dynamical Mechanical Properties of Radiation Modified Phenyl-Vinyl-Methyl-Polysiloxane Elastomers at The Natural Frequency by Dynamic Mechanical Yertzley Oscillograph**  
Şen M., Aksüt D.  
KAUTSCHUK GUMMI KUNSTSTOFFE, vol.4, pp.55-61, 2022 (SCI-Expanded)
- XII. **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)
- XIII. **Lignin in Place of Carbon Black for Ethylene-Propylene-Diene-Monomer Based Automotive Sealing Profiles**  
Poyraz B., Güner Y., Tozluoğlu A., Ymanoğlu R., CANDAN Z., ŞEN M.  
BioResources, vol.17, no.4, pp.5905-5918, 2022 (SCI-Expanded)
- XIV. **Radiation synthesis and characterization of xanthan gum hydrogels**  
Hayrabolulu H., Demeter M., Cutrubinis M., ŞEN M.  
RADIATION PHYSICS AND CHEMISTRY, vol.188, 2021 (SCI-Expanded)
- XV. **Regulation of chondrocyte hypertrophy in an osteochondral interface mimicking gel matrix**  
Korpayev S., Toprak O., Kaygusuz G., ŞEN M., Orhan K., Karakeçili A.  
COLLOIDS AND SURFACES B-BIOINTERFACES, vol.193, 2020 (SCI-Expanded)
- XVI. **Chitosan/collagen based biomimetic osteochondral tissue constructs: A growth factor-free approach**  
Korpayev S., Kaygusuz G., Şen M., Orhan K., Oto Ç., Karakeçili A.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.156, pp.681-690, 2020 (SCI-Expanded)
- XVII. **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)
- XVIII. **Synthesis and characterization of radiation cross-linked PVP hydrogels and investigation of its potential as an antileishmanial drug carrier**  
Ben Ammar N. E., Essid R., Saied T., Şen M., Elkahoui S., Hamzaoui A. H.  
POLYMER BULLETIN, vol.77, pp.1343-1357, 2020 (SCI-Expanded)
- XIX. **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)

- XX. **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**  
Hidroglu M., Aksüt D., Serce O., Karabulut H., Şen M.  
RADIATION PHYSICS AND CHEMISTRY, vol.159, pp.118-123, 2019 (SCI-Expanded)
- XXI. **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., Calma I., Şen M.  
RADIATION PHYSICS AND CHEMISTRY, vol.158, pp.148-152, 2019 (SCI-Expanded)
- XXII. **Effect of selective infiltration etching on the bond strength between zirconia and resin luting agents**  
Tanis M. C., Akay C., Şen M.  
JOURNAL OF ESTHETIC AND RESTORATIVE DENTISTRY, vol.31, pp.257-262, 2019 (SCI-Expanded)
- XXIII. **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)
- XXIV. **Strengthen adhesion between zirconia and resin cement using different surface modifications**  
Akay C., Tanis M. C., Şen M., Kavaklı P.  
International Journal of Applied Ceramic Technology, vol.16, no.3, pp.917-922, 2019 (SCI-Expanded)
- XXV. **Mechanical characterization and ex vivo evaluation of anticancer and antiviral drug printed bioadhesive film for the treatment of cervical cancer**  
Varan C., Şen M., Sandler N., Aktaş Y., Bilensoy E.  
EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, vol.130, pp.114-123, 2019 (SCI-Expanded)
- XXVI. **Partially sulfonated styrene-(ethylene-butylene)-styrene copolymers: Nanostructures, bio and electro-active properties**  
Orujalipoor I., Polat K., Huang Y., İde S., Şen M., Jeng U., Ağçeli G., Cihangir N.  
Materials Chemistry and Physics, vol.225, pp.399-405, 2019 (SCI-Expanded)
- XXVII. **E-Beam Processing of Collagen-Poly(N-vinyl-2-pyrrolidone) Double-Network Superabsorbent Hydrogels: Structural and Rheological Investigations**  
DEMETER M., CALINA I., VANCEA C., ŞEN M., KAYA M. G. A., MANAILA E., DUMITRU M., MELTZER V.  
MACROMOLECULAR RESEARCH, vol.27, no.3, pp.255-267, 2019 (SCI-Expanded)
- XXVIII. **Identification of temperature scanning stress relaxation behaviors of new grade ethylene propylene diene elastomers**  
Karaagac B., CENGİZ S. C., Bayram T., ŞEN M.  
ADVANCES IN POLYMER TECHNOLOGY, vol.37, no.8, pp.3027-3037, 2018 (SCI-Expanded)
- XXIX. **Comparison of the Mechanical Properties of Platelet-Rich Fibrin and Ankaferd Blood Stopper-loaded Platelet-rich Fibrin**  
Aktaş A., Özer T., Şen M., Türk M., Karabulut E.  
NIGERIAN JOURNAL OF CLINICAL PRACTICE, vol.21, pp.1087-1092, 2018 (SCI-Expanded)
- XXX. **A comparative study between three different methods of hydrogel network characterization: effect of composition on the crosslinking properties using sol-gel, rheological and mechanical analyses**  
BEN AMMAR N. E., SAIED T., BARBOUCHE M., HOSNI F., HAMZAOUİ A. H., ŞEN M.  
POLYMER BULLETIN, vol.75, no.9, pp.3825-3841, 2018 (SCI-Expanded)
- XXXI. **In vitro shear bond strength between fluorinated zirconia ceramic and resin cements**  
Tanis M. C., Akay C., Akcaboy T. C., ŞEN M., KAVAKLI P., Sapmaz K.  
Journal of Advanced Prosthodontics, vol.10, no.3, pp.205-210, 2018 (SCI-Expanded)
- XXXII. **Radiation induced degradation of xanthan gum in aqueous solution**  
Hayrabolulu H., DEMETER M., CUTRUBINIS M., Guven O., ŞEN M.  
RADIATION PHYSICS AND CHEMISTRY, vol.144, pp.189-193, 2018 (SCI-Expanded)
- XXXIII. **Influence of nano alumina coating on the flexural bond strength between zirconia and resin cement**  
Akay C., TANIS M. C., Mumcu E., Kilcarslan M. A., ŞEN M.  
JOURNAL OF ADVANCED PROSTHODONTICS, vol.10, no.1, pp.43-49, 2018 (SCI-Expanded)

- XXXIV. **The Effect of Ascorbic Acid (Vitamin C) on Transepithelial Corneal Cross-Linking in Rabbits**  
KOC M., BOSTANCI B., DEMIREL O. O., GENÇ F., TEKİN K., Koban Y., Dincel A. S., ŞEN M., YILMAZBAS P.  
JOURNAL OF OCULAR PHARMACOLOGY AND THERAPEUTICS, vol.33, no.7, pp.525-529, 2017 (SCI-Expanded)
- XXXV. **Effects of accelerator type on stress relaxation behavior and network structure of aged natural rubber/chloroprene rubber vulcanizates**  
AZAR F. A. N., ŞEN M.  
JOURNAL OF ELASTOMERS AND PLASTICS, vol.49, no.5, pp.381-396, 2017 (SCI-Expanded)
- XXXVI. **Effects of Hot Chemical Etching and 10-Metacryloxydecyl Dihydrogen Phosphate (MDP) Monomer on the Bond Strength of Zirconia Ceramics to Resin-Based Cements**  
Akay C., TANIS M. C., ŞEN M.  
JOURNAL OF PROSTHODONTICS-IMPLANT ESTHETIC AND RECONSTRUCTIVE DENTISTRY, vol.26, no.5, pp.419-423, 2017 (SCI-Expanded)
- XXXVII. **Preparation and characterization of a thermoplastic proton-exchange system based on SEBS and polypropylene blends**  
Polat K., ŞEN M.  
EXPRESS POLYMER LETTERS, vol.11, no.3, pp.209-218, 2017 (SCI-Expanded)
- XXXVIII. **A polymeric nanocomposite system for potential adhesive applications in restorative dentistry**  
Çopuroğlu M., ŞEN M., KEYF F.  
JOURNAL OF ADHESION SCIENCE AND TECHNOLOGY, vol.31, no.6, pp.602-612, 2017 (SCI-Expanded)
- XXXIX. **Design and optimization of novel paclitaxel-loaded folate-conjugated amphiphilic cyclodextrin nanoparticles**  
ERDOĞAR N., ESENDAĞLI G., Nielsen T. T., ŞEN M., ÖNER L., BİLENSOY E.  
INTERNATIONAL JOURNAL OF PHARMACEUTICS, vol.509, pp.375-390, 2016 (SCI-Expanded)
- XL. **Radiation induced degradation of xanthan gum in the solid state**  
ŞEN M., Hayrabolulu H., Taskin P., TORUN M., DEMETER M., CUTRUBINIS M., Guven O.  
RADIATION PHYSICS AND CHEMISTRY, vol.124, pp.225-229, 2016 (SCI-Expanded)
- XLI. **Synthesis and Characterization of a Zr-Containing Silicate-Based Epoxy-Functional Polymer Nanocomposite System**  
Çopuroğlu M., Şen M.  
POLYMER ENGINEERING AND SCIENCE, vol.55, pp.792-798, 2015 (SCI-Expanded)
- XLII. **Nano and microstructures of SEBS/PP/wax blend membranes: SAXS and WAXS analyses**  
Polat K., Orujalpoor I., İde S., Şen M.  
JOURNAL OF POLYMER ENGINEERING, vol.35, pp.151-157, 2015 (SCI-Expanded)
- XLIII. **The effect of environmental humidity on radiation-induced degradation of carrageenans**  
Şen M., Toprak D., Guven O.  
CARBOHYDRATE POLYMERS, vol.114, pp.546-552, 2014 (SCI-Expanded)
- XLIV. **Curing kinetics of styrene-(ethylene-butylene)-styrene (SEBS) copolymer by peroxides in the presence of co-agents**  
POLAT K., ŞEN M.  
JOURNAL OF POLYMER ENGINEERING, vol.34, no.9, pp.787-792, 2014 (SCI-Expanded)
- XLV. **Light-Curing of a Sol-Gel-Derived Silicate-Based Epoxy-Functional Polymer Nanocomposite Material System**  
Copuroglu M., Şen M.  
POLYMER COMPOSITES, vol.35, pp.1879-1887, 2014 (SCI-Expanded)
- XLVI. **The effect of degree of deacetylation on the radiation induced degradation of chitosan**  
Taskin P., Canisag H., Şen M.  
RADIATION PHYSICS AND CHEMISTRY, vol.94, pp.236-239, 2014 (SCI-Expanded)
- XLVII. **Synthesis of carboxylated locust bean gum hydrogels by ionizing radiation**  
Hayrabolulu H., Şen M., Celik G., Kavakli P.  
Radiation Physics and Chemistry, vol.94, no.1, pp.240-244, 2014 (SCI-Expanded)
- XLVIII. **Identification of relationship between the synthesis/process parameters and properties of a sol-gel-**

**derived polymer nanocomposite system**

Copuroglu M., Şen M.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.129, pp.3704-3709, 2013 (SCI-Expanded)

- XLIX. **A comprehensive study on the size exclusion chromatography of kappa-carrageenan for the identification of after-peaks**  
Şen M., Yolacan B., Guven O.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.127, pp.494-499, 2013 (SCI-Expanded)
- L. **Radiation synthesis and characterisation of the network structure of natural/synthetic double-network superabsorbent polymers**  
Şen M., Hayrabolulu H.  
RADIATION PHYSICS AND CHEMISTRY, vol.81, pp.1378-1382, 2012 (SCI-Expanded)
- LI. **Ultraviolet-radiation-curing of an organically modified silicate-based material system with epoxy functionality, and the role of titanium**  
Copuroglu M., Şen M.  
RADIATION PHYSICS AND CHEMISTRY, vol.81, pp.1324-1327, 2012 (SCI-Expanded)
- LII. **The antioxidant properties of oligo sodium alginates prepared by radiation-induced degradation in aqueous and hydrogen peroxide solutions**  
Şen M., Atik H.  
RADIATION PHYSICS AND CHEMISTRY, vol.81, pp.816-822, 2012 (SCI-Expanded)
- LIII. **Swelling and mechanical properties of superabsorbent hydrogels based on Tara gum/acrylic acid synthesized by gamma radiation**  
Abd Alla S. G., Şen M., El-Naggar A. W. M.  
CARBOHYDRATE POLYMERS, vol.89, pp.478-485, 2012 (SCI-Expanded)
- LIV. **EFFECTS OF CRYOGENIC TREATMENT ON THE PROPERTIES OF TYRE PRODUCTION WASTES**  
KARAAĞAÇ B., Deniz V., ŞEN M.  
CHEMICKE LISTY, vol.105, no.5, pp.429-434, 2011 (SCI-Expanded)
- LV. **Effects of molecular weight and ratio of guluronic acid to mannuronic acid on the antioxidant properties of sodium alginate fractions prepared by radiation-induced degradation**  
Sen M.  
APPLIED RADIATION AND ISOTOPES, vol.69, pp.126-129, 2011 (SCI-Expanded)
- LVI. **Determination of critical gelation conditions of kappa-carrageenan by viscosimetric and FT-IR analyses**  
Şen M., Erboz E. N.  
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ŞEN M., Parlak M., Ahmadzadeh Nobari Azar F., Project Supported by Higher Education Institutions, Silikon Elastomerlerin Durulma Özelliklerine Pişirici Tipinin ve Oranının Etkisi, 2015 - 2016

ŞEN M., Project Supported by Higher Education Institutions, Doğal Kauçuk/Kloropren Kauçuk Esaslı Karışımların Vulkanizasyon Kinetiğine ve Yaşlanma Özelliklerine Hızlandırıcının Tipinin ve Hızlandırıcı/Kükürt Oranının Etkisinin Belirlenmesi, 2014 - 2016

GENÇ F., ŞEN M., Project Supported by Higher Education Institutions, Ksantan Sakızı Polimerinin İyonlaştırıcı Radyasyonla Bozunma Hızına Işınlama Dozunun ve Doz Hızının Etkisi, 2015 - 2015

BARSBAY M., ŞATIROĞLU N., KARAN B., SALİH B., ŞEN M., Project Supported by Higher Education Institutions, 8. Fen Fakültesi Kariyer Günleri ve Bilim Şenliği Kimya Bölümü Projeleri, 2015 - 2015

ŞEN M., Project Supported by Higher Education Institutions, Ksantan sakızının katı ve çözelti halinde radyasyonla

indüklenmiş bozunması, 2015 - 2015

KARASOY D., ŞEN M., Project Supported by Higher Education Institutions, 8. FEN FAKÜLTESİ KARIYER GÜNLERİ VE BİLİM ŞENLİĞİ, 2015 - 2015

ŞEN M., Project Supported by Higher Education Institutions, Sol-Jel Tekniği ile Zirkonyum ve Silikat içerikli, Epoksi Fonksiyonelli Polimerik Nanokompozitlerin Hazırlanması ve Karakterizasyonu, 2015 - 2015

ŞEN M., Project Supported by Higher Education Institutions, Hacettepe Üniversitesinde Polimer Bilimi ve Teknolojisi Eğitiminde ve Araştırmalarında Son Gelişmeler, 2014 - 2015

ŞEN M., TUBITAK Project, Epoksi-Fonksiyonelli Silikat-İçerikli Polimer Nanokompozitlerin Sentezi Ve Karakterizasyonu, 2014 - 2015

ŞEN M., Project Supported by Higher Education Institutions, EPOKSI-FONKSİYONELLİ SİLİKAT-İÇERİKLİ POLİMER NANOCOMPOZİTLERİN SENTEZİ VE KARAKTERİZASYONU, 2014 - 2015

ŞEN M., TUBITAK Project, İyonlaştırıcı Radyasyonla Ksantan Sakızı Esaslı Süper Emici Polimerlerin Hazırlanması İçin Optimum İşleme Koşullarının Belirlenmesi, 2013 - 2015

ŞEN M., TUBITAK Project, İyonlaştırıcı Radyasyonla Ksantan Sakızı Esaslı Süper Emici Polimerlerin Hazırlanması İçin optimum İşleme Koşullarının Belirlenmesi, 2013 - 2015

ŞEN M., TUBITAK Project, Karboksillenmiş Keçiboynuzu Çekirdeği Sakızı Esaslı Süper Emici Doğal Polimerlerin Hazırlanması Ve Karakterizasyonu, 2010 - 2012

ŞEN M., TUBITAK Project, Elektrokimyasal Çöktürme Yöntemi İle İndiyum Kalay Oksit (Ito) Kaplanmış Cam Yüzeylerinin Hazırlanması, 2010 - 2011

## Memberships / Tasks in Scientific Organizations

Polimer Bilimi ve Teknolojisi Derneği, Board Member, 2017 - Continues

## Scientific Consultations

Tübitak- TEYDEB Projesi, Project Consultancy, Hacettepe University, Fen Fakültesi, Kimya Bölümü, Turkey, 2018 - Continues

Tübitak- TEYDEB Projesi, Project Consultancy, Hacettepe University, Fen Fakültesi, Kimya Bölümü, Turkey, 2018 - Continues

Tübitak- 1511 Öncelikli Alanlar Araştırma Teknoloji Geliştirme Ve Yenilik Projeleri Destekleme Programı Projesi, Project Consultancy, Hacettepe University, Fen Fakültesi, Kimya Bölümü, Turkey, 2017 - 2018

## Metrics

Publication: 120

Citation (WoS): 2461

Citation (Scopus): 2548

H-Index (WoS): 28

H-Index (Scopus): 29

## Congress and Symposium Activities

7. Uluslararası Katılımlı Polimer Bilimi ve Teknolojisi Kongresi, Attendee, Eskişehir, Turkey, 2018

International Rubber Congress(IRC2018), Attendee, Kuala-Lumpur, Malaysia, 2018

Ionizing Radiation and Polymers (IRaP2018), Attendee, Moscow, Russia, 2018

RubberCon2018, Attendee, İstanbul, Turkey, 2018

## **Awards**

ŞEN M., Paper Award, RubberCon 2019 Organization Committee, May 2019

## **Non Academic Experience**

Hacettepe Üniversitesi

Hacettepe Üniversitesi